September 1, 2010

Mr. Brett Middleton
Encana Oil & Gas (USA) Inc.
2717 County Rd. 215
Suite 100
Parachute, CO 81635

Re: West Divide Seep Area Second Quarter Monitoring Status Report for June 2010

Dear Mr. Middleton:

Olsson Associates (Olsson) has completed the second quarter of 2010 groundwater and surface-water monitoring for Encana Oil & Gas (USA) Inc. (Encana) at the West Divide Creek Gas Seep study area (**Figure 1**).

This report summarizes the status of the remediation system and the analytical results of surface-water and groundwater monitoring that was conducted in June and July 2010 and data collected since 2004 to monitor the impacts of the dissolved phase hydrocarbons comprised primarily of methane and benzene in the study area.

Groundwater and Surface-Water Monitoring

Olsson collected groundwater samples from 22 out of the 24 monitoring wells and the Eicher domestic water well during the second quarter on June 28 and June 29, 2010 (**Figure 1**). Two duplicate samples were also collected during this monitoring period. Confirmation sampling of some of the wells (MW-1,-2,-4,-7,-11,-16,-17,-25 and -27) was conducted on July 21, 2010 to confirm the laboratory results that were not consistent with previous results obtained for these locations. Prior to sample collection, static water levels were measured in the monitoring wells to within 0.01 feet (ft) from the top of the PVC casing using an electronic water level meter. The wells were purged of static water using dedicated disposable bailers. Field parameters were obtained at the completion of purging activities and included temperature, specific conductance, dissolved oxygen, pH, total dissolved solids and turbidity using a Quanta water quality meter (**Appendix A**). Groundwater samples were collected following field parameter measurements.

Olsson collected eight (8) surface-water samples (DCS-1-8) on June 29, 2010 from West Divide Creek extending from the former seep area to the northern Langegger property line (**Figure 1**). Field parameters including temperature, specific conductance, dissolved oxygen, pH, total dissolved solids, and turbidity were also collected for each sample using the Quanta meter (**Appendix A**).

Water-quality samples collected during this period were analyzed by Accutest Labs (AL), Wheat Ridge, CO for the following analyses:

- BTEX using EPA method 8021b

- Total dissolved methane using method RSK 175M
- Chloride (Cl) using method 300E
- Sodium (Na) using method SW6020

Isotopic methane was analyzed by Isotech Laboratories, Inc of Champaign, IL (Isotech). Stable isotopes of carbon and hydrogen in methane, stable isotopes of carbon in ethane and propane and the gas composition were determined for total dissolved methane gas concentrations at monitoring wells with a history of total dissolved methane greater than 2.0 mg/L (**Appendix B and Appendix C**).

Groundwater and surface-water samples were placed in the appropriate sample containers provided by AL and Isotech, labeled, stored on ice, and delivered under chain-of-custody procedures to AL.

Site Hydrogeology and Hydrology

For this monitoring period, groundwater was encountered from near surface (in the seep area) to 22.65 (MW-21) feet below ground surface (ft-bgs). The groundwater flow direction continues to be from the seep area towards the north, mimicking the flow direction of the creek (**Figure 2**). The groundwater gradient for this period of monitoring was 0.014 feet/foot (ft/ft) (March 2010 - 0.019 ft/ft).

The flow in the creek was typical for this monitoring period and low compared to the spring flows. Monitoring wells MW-13 and MW-19 are plugged by an obstruction and were not sampled during this monitoring period. These wells will be abandoned during the third quarter 2010 monitoring period, per Colorado Division of Water Resources 2CCR 102-2, Rule 16. A well abandonment report (Form GWS-9) will be submitted Colorado State Engineer's Office within 60 days of abandonment.

Groundwater Monitoring Results

A summary of laboratory analytical groundwater results for benzene, toluene, ethylbenzene, total xylenes (BTEX), and total dissolved methane for the second quarter 2010 is presented in **Table 1**. The extent of benzene concentrations for this monitoring period is shown in **Figure 3**. The distribution of total dissolved methane concentrations are shown in **Figure 4**. The second quarter 2010 BTEX and total dissolved methane concentrations are depicted in **Figure 5**. The second quarter 2010 field parameters are contained in **Appendix A**. A summary of historical hydrocarbon analyses results for groundwater data collected since 2004 are contained in **Appendix B**. The QA/QC data are contained in **Appendix D**. The thermogenic methane data for this monitoring period are summarized in **Appendix E**. Graphs of chemical concentrations for selected wells are in **Appendix F**. The laboratory reports for June and July 2010 are in **Appendix G**. This report including all of the laboratory reports is enclosed on a disk in the Adobe Acrobat format.

For this monitoring period confirmed laboratory results are summarized as follows:

- Detections of benzene above the lower laboratory reporting limit were found in monitoring wells 2, 4, 9 and 17 (**Table 1);**
- Benzene concentrations were detected above the state standard of 5 µg/L at MW-2 (144 µg/L), at MW-4 (41.2 µg/L) and at MW-17 (13.0 µg/L). These wells have generally been

the only monitoring wells in the seep area that have been consistently above the state standard for benzene.

- A detection of toluene was confirmed in monitoring well MW-2 at a concentration of 2.2 µg/L (**Table 1**). Prior to this monitoring period, toluene had not been detected in any of the monitoring wells since 2008.
- Ethylbenzene was not confirmed in any of the monitoring wells above the state standard of 680 µg/L (**Table 1**).
- Confirmed total xylenes were detected in MW-2 at a concentration of 33.3 µg/L, which is below the state standard of 10,000 ug/L (**Table 1**).

Surface-Water Monitoring Results

Table 2 contains the surface-water hydrocarbon results for June 2010. The historical surface-water results for hydrocarbons are contained in **Appendix C**. Laboratory results for this monitoring period indicate that BTEX compounds were not detected above the lower laboratory reporting limit in any of the Divide Creek surface-water samples, with the exception of a toluene detection in DCS-1, which was likely a laboratory artifact concentration as seen in the monitoring well data (**Table 2**). The results to date continue to confirm that hydrocarbon concentrations above the lower laboratory reporting limit have not been detected in the creek since April of 2005 (**Appendix C**).

Methane Results for Groundwater and Surface Water

The AL laboratory results for methane are reported as total dissolved methane. This includes both biogenic (methane gas generated by biologic reduction of organic matter) and thermogenic methane (methane gas generated by thermal reduction of deeply buried organic matter). Total dissolved methane above the lower method detection level of 0.0008 mg/L was detected in 16 monitoring wells in the study area. Total dissolved methane above a concentration of 2.0 mg/L continues to be found in monitoring wells 2, 4, 9 and 14 (**Table 1 and Figure 4**). Total dissolved methane concentrations above the lower laboratory reporting limit of 0.0008 mg/L were found in all of the Divide Creek sample locations (**Table 2**).

Isotopic samples were collected and analyzed from monitoring wells 2, 4, 9, 14 and 17 during this monitoring period. The results for these locations are contained in **Appendix F**. All of these estimated thermogenic concentrations are less than the initial concentrations, but have remained stable at the estimated concentrations since 2007 (**Appendix B**).

Divide Creek Seep Remediation Status

The air sparge remediation system was operated during this quarter with minimum downtime. Monitoring has continuously shown that the air sparge remediation system has successfully contained migration of the hydrocarbon plume with the treatment time of 8 hr/day. The treatment time was reduced to 8 hr/day in April 2009 and the data continues to indicate the hydrocarbon concentrations are below the lower laboratory reporting limits within and downgradient of the area of the treatment wells. An air sparging line was reinstalled in MW-4 and was operated continuously for the quarter. The air treatment in this well will continue throughout 2010.

Benzene concentrations greater than the state standard and total dissolved methane concentrations greater than 2.0 mg/L in groundwater are primarily located within 250 feet of the seep and upgradient of the treatment system. Total dissolved methane concentrations have been reduced significantly downgradient of the remediation system. Concentrations of benzene

in the area of treatment influence continue to show reduced concentrations at MW-1 (slightly upgradient of the treatment wells) and at MW-8 (downgradient of the treatment wells).

Planned Activities for the Next Quarter

The following activities are planned for the next quarter:

- Obtain water levels from all monitoring wells;
- Sample all monitoring well and surface-water locations and the Eicher domestic well for analyses of BTEX, total dissolved methane, chloride and sulfide;
- Obtain water quality samples for methane isotopic analysis at monitoring locations that have historically shown total dissolved methane concentrations greater than 2.0 mg/L at monitoring wells MW-2, 4, 9, 14 and 17;
- Obtain two duplicate samples and one field blank sample;
- Abandon monitoring wells MW-13 and MW-19;
- Continue to sample the Eicher domestic well (Eich2);
- Continue to operate and maintain the air treatment of MW-4; and
- Perform maintenance on the air sparge system, as needed.

Olsson appreciates the opportunity to provide services to Encana Oil & Gas (USA) Inc. If you have any questions or concerns regarding this information, please contact me at (303) 237-2072.

Sincerely,

Brad Stephenson, P.G.
Senior Hydrogeologist

cc: Linda Spry-O'Rourke
Lisa Bracken
Steve Thompson
Pepi Langegger
Kathy Friesen

Attachments

TABLES

Table 1

Summary of June 2010 Groundwater Analytical Results and Groundwater Elevations
Encana, West Divide Creek Seep
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	Groundwater Elevation (ft-msl)
Colorado GWQSs (ug/L)		5	1000	680	10000			
MW-01	28-Jun-10	<1	2.5	<2	<2	<0.0008		5954.06
MW-01[a]	21-Jul-10	<1	<2	<2	<2			
MW-02	28-Jun-10	**72**	3.0	<2	24.9	8.71	6.4	5954.19
MW-02[a]	21-Jul-10	**144**	2.2	<2	33.3			
MW-04	28-Jun-10	**59.4**	3.0	2.2	21.7	8.35	6.3	5955.31
MW-04[a]	21-Jul-20	**41.2**	<2	<2	15.8			
MW-06	28-Jun-10	<1	<2	<2	<2	0.00989		5953.14
MW-07	28-Jun-10	<1	2.7	<2	<2	<0.0008		5952.88
MW-07[a]	21-Jul-10	<1	<2	<2	<2			
MW-08	28-Jun-10	<1	<2	<2	<2	0.0192		5951.67
MW-09	28-Jun-10	1.8	<2	<2	<2	6.8	4.3	5960.69
MW-11	28-Jun-10	<1	2.3	<2	2.7	0.0615		5964.86
MW-11[a]	21-Jul-10	<1	<2	<2	<2			
MW-12	28-Jun-10	<1	<2	<2	<2	0.672		5960.63
MW-13	29-Jun-10							PLUGGED
MW-14	28-Jun-10	<1	<2	<2	<2	4.79	3.1	5959.62
MW-15	29-Jun-10	<1	<2	<2	<2	<0.0008		5957.79
MW-16	28-Jun-10	<1	<2	<2	<2	0.0889		5957.42
MW-16[a]	21-Jul-10	<1	<2	<2	<2			
MW-16D	28-Jun-10	<1	2.4	<2	<2	0.0135		5957.42
MW-16D[a]	21-Jul-10	<1	<2	<2	<2			
MW-17	28-Jun-10	<1	<2	<2	<2	0.0107	0.0008	5954.44
MW-17[a]	21-Jul-10	**13**	<2	<2	<2			
MW-18	29-Jun-10	<1	<2	<2	<2	0.264		5948.42
MW-19	29-Jun-10							PLUGGED
MW-20	29-Jun-10	<1	<2	<2	<2	0.00369		5945.24
MW-21	29-Jun-10	<1	<2	<2	<2	0.00156		5946.80
MW-22	29-Jun-10	<1	<2	<2	<2	<0.0008		5947.72
MW-23	28-Jun-10	<1	<2	<2	<2	<0.0008		5840.83
MW-23D	28-Jun-10	<1	<2	<2	<2	<0.0008		5940.83
MW-24	29-Jun-10	<1	<2	<2	<2	0.00178		5950.06
MW-25	28-Jun-10	<1	2.0	<2	<2	0.0103		5968.39
MW-25[a]	21-Jul-10	<1	<2	<2	<2			
MW-26	28-Jun-10	<1	<2	<2	<2	0.778		5953.56
MW-27	28-Jun-10	<1	2.1	<2	<2	<0.0008		5949.91
MW-27[a]	21-Jul-20	<1	<2	<2	<2			
EICH2	29-Jun-10	<1	<2	<2	<2	0.014		

Bold - exceeds Colorado Groundwater Quality Standards (GWQS)

[a] - Resampled due to suspected laboratory error
D - Duplicate sample
ft-msl - feet above mean sea level
mg/L - milligrams/Liter
ug/L - micrograms/Liter
NM - Not measured
< - Not detected above indicated reporting level
Blank cell - not analyzed/not collected
BTEX analyzed by EPA Method 8021
Total Dissolved Methane analyzed by EPA Method RSK175MOD

Table 2

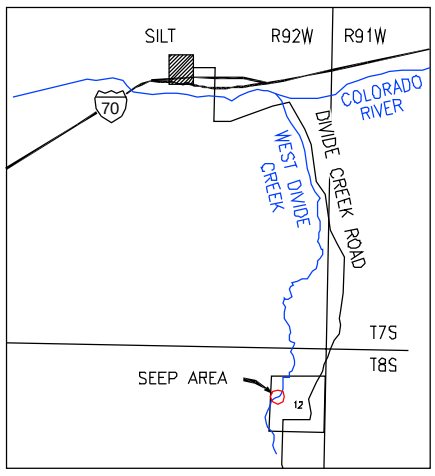
Summary of Surface-Water Analytical Results for June 2010
Encana, West Divide Creek Seep
Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado GWQSs (ug/L)		5	1000	680	10,000		
DCS-1	29-Jun-10	<1	2.6	<2	<2	0.00186	
DCS-2	29-Jun-10	<1	<2	<2	<2	0.0013	
DCS-3	29-Jun-10	<1	<2	<2	<2	0.001	
DCS-4	29-Jun-10	<1	<2	<2	<2	0.00165	
DCS-5	29-Jun-10	<1	<2	<2	<2	0.00176	
DCS-6	29-Jun-10	<1	<2	<2	<2	0.00174	
DCS-7	29-Jun-10	<1	<2	<2	<2	0.00186	
DCS-8	29-Jun-10	<1	<2	<2	<2	0.0015	

200 - **Bold** exceeds Colorado Groundwater Quality Standards (GWQS)
D - Duplicate Sample
mg/L - milligrams/Liter
ug/L - micrograms/liter
< - Not detected above indicated reporting level
Blank cell - not analyzed/not collected
BTEX analyzed by EPA Method 8021
Total Dissolved Methane analyzed by EPA Method RSK175M

FIGURES

M:\clients\CORDILLERAN\Divide Creek\Basemaps\Rem-Phase-Basemap.dwg Layout: Layout1



588°11'12"W - 2620.17' (Meas.)

Section Line

North 1/4 Corner
Section 12
(1987 Brass Cap)

Site Boundary

Eicher

Langegger
NE 1/4 NW 1/4

NW 1/4 NW 1/4

Thompson

Water Well 2

Langegger
SW 1/4 NW 1/4

Langegger
SE 1/4 NW 1/4

N00°07'06"E (Basis of Bearings) 2626.37' (Meas.)

1/16 Section Line

NW 1/4

Section Line

1/16 Section Line

E Multa Trina Ditch

West Divide Creek

Pond

Marshland

Cabin

Gate

Site Boundary

West 1/4 Corner
Section 12
(Rebar)

1/4 Section Line

Sec. 12

MW1 MW2 MW3 MW4 MW5 MW6 MW7 MW8 MW9 MW10 MW11 MW12 MW13 MW14 MW15 MW16 MW17 MW18 MW19 MW20 MW21 MW22 MW23 MW24 MW25 MW26 MW27

Eich1 Eich2

DCS1 DCS2 DCS3 DCS4 DCS5 DCS6 DCS7 DCS8

AS-1 AS-2 AS-3 AS-4 AS-5 AS-6 AS-7 AS-8 AS-9 AS-10 AS-11 AS-12 AS-13 AS-14 AS-15 AS-16 AS-17 AS-18

LEGEND

- = SECTION CORNERS FOUND
- = TRAIL
- = ROAD
- = FENCE
- = OLD FENCE
- = PROPERTY LINE
- = DRAINAGE
- X = DIVIDE CREEK SAMPLE LOCATION
- = MONITORING WELL LOCATION
- ⊗ = AIR SPARGE WELL LOCATION
- = NESTED AIR SPARGE WELL LOCATION

N

0 100 200
SCALE IN FEET

PROJECT NO: 008-2067	WEST DIVIDE CREEK SEEP AREA SITE LOCATION MAP	OLSSON ASSOCIATES 4690 Table Mountain Drive Suite 200 Golden, CO 80403 TEL 303.237.2072 FAX 303.237.2659	FIGURE
DRAWM BY: FR			1
DATE:. 3/10/10			

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S88°11'12"W – 2620.17' (Meas.)

Section Line

Northwest Corner
Section 12
(1987 Brass Cap)

North 1/4 Corner
Section 12
(1987 Brass Cap)

N00°07'06"E (Basis of Bearings) 2626.37' (Meas.)

Section Line

1/16 Section Line

1/16 Section Line

1/4 Section Line

West 1/4 Corner
Section 12
(Rebar)

Sec. 12

Site Boundary

Site Boundary

Bridge

Gate

Gate

Eicher

Cabin

Pond

Marshland

Multa Trina Ditch

Divide Creek

Thompson

Langegger
NE 1/4 NW 1/4

Langegger
SW 1/4 NW 1/4

Langegger
SE 1/4 NW 1/4

NW 1/4 NW 1/4

NW 1/4

MW27
5949.91 *

MW23
5940.83

MW24
5950.06

MW21
5946.80

MW20
5945.24

MW18
5948.42

MW22
5947.72

MW8
5951.67

MW26
5953.56

MW17
5954.44

MW7
5952.88

MW1
5954.06

MW16
5957.42

MW6
5953.14

MW2
5954.19

MW15
5957.79

MW4
5955.31

MW9
5960.69

MW14
5959.62

MW12
5960.63

MW11
5964.86

MW19
(Plugged)

MW25
5968.39

MW13
(Plugged)

Eich1

Eich2

Water Well 2

DCS1

DCS2

DCS3

DCS4

DCS5

DCS6

DCS7

DCS8

5942.00

5944.00

5946.00

5948.00

5948.00

5950.00

5952.00

5954.00

5956.00

5958.00

5960.00

5962.00

5964.00

5966.00

5968.00

AS-1 AS-2 AS-3 AS-4 AS-5 AS-7 AS-8 AS-9 AS-10 AS-11 AS-13 AS-14 AS-15 AS-18 AS-19

LEGEND

= SECTION CORNERS FOUND
= TRAIL
= ROAD
= FENCE
= OLD FENCE
= PROPERTY LINE
= DRAINAGE

X = DIVIDE CREEK SAMPLE
= MONITORING WELL LOCATION
= AIR SPARGE WELL LOCATION
= NESTED AIR SPARGE WELL LOCATION
5950 = GROUNDWATER ELEVATION CONTOUR (FEET)
5950.33 = GROUNDWATER ELEVATION (FEET)
= GROUNDWATER FLOW DIRECTION
* = DATA NOT USED IN CONTOURING

N

0 100 200
SCALE IN FEET

PROJECT NO: 008-2067 DRAWN BY: BLM DATE:. 9/7/10	WEST DIVIDE CREEK SEEP AREA GROUNDWATER ELEVATION MAP JUNE 2010 GARFIELD COUNTY, COLORADO	OLSSON ASSOCIATES	4690 Table Mountain Drive Suite 200 Golden, CO 80403 TEL 303.237.2072 FAX 303.237.2659	FIGURE 2

F:\Projects\008-2067_MUNI\Exhibits\82067_DC-B610.dwg Layout: Layout1

S88°11'12"W – 2620.17' (Meas.)

Section Line

Northwest Corner
Section 12
(1987 Brass Cap)

North 1/4 Corner
Section 12
(1987 Brass Cap)

Bridge

Eicher

MW27
<1.0

Site Boundary

Langegger
NE 1/4 NW 1/4

Eich1

Eich2
<1.0

NW 1/4 NW 1/4

MW23
<1.0

Gate

Thompson

Water Well 2

MW24
<1.0

N00°07'06"E (Basis of Bearings) 2626.37' (Meas.)

1/16 Section Line

NW 1/4

MW21
<1.0

MW20
<1.0

DCS8

Divide Creek

MW18
<1.0

MW22
<1.0

West

DCS7

DCS6

MW26
<1.0

<1.0
MW8

13.0
MW17

Pond

Langegger
SW 1/4 NW 1/4

AS-13 AS-14 AS-15 AS-8 AS-9 AS-10 AS-11 AS-7 AS-12 AS-2 AS-5 AS-3 AS-4 AS-18

MW7 <1.0

MW16
<1.0

MW1
<1.0

Cabin

MW6
<1.0

DCS5

℄ Multa Trina Ditch

MW2
144

50

5

1.0

MW15
<1.0

DCS4

DCS1

MW4
41.2

AS-19

DCS2

1.8

DCS3

MW12
<1.0

MW9

MW14
<1.0

Marshland

MW11
<1.0

MW19
(Plugged)

MW25
<1.0

MW13
(Plugged)

Site Boundary

Section Line

1/16 Section Line

Langegger
SE 1/4 NW 1/4

West 1/4 Corner
Section 12
(Rebar)

1/4 Section Line

Sec. 12

LEGEND

- = SECTION CORNERS FOUND
- = TRAIL
- = ROAD
- = FENCE
- = OLD FENCE
- = PROPERTY LINE
- = DRAINAGE
- 100 = BENZENE CONCENTRATION CONTOUR IN µg/L
- 100 = BENZENE CONCENTRATION IN µg/L
- NS = NOT SAMPLED
- X = DIVIDE CREEK SAMPLE LOCATION
- = MONITORING WELL LOCATION
- = AIR SPARGE WELL LOCATION
- = NESTED AIR SPARGE WELL LOCATION

NOTE:
GROUNDWATER SAMPLES WERE COLLECTED ON JUNE 28 AND JUNE 29, 2010. DUE TO A SUSPECTED LABORATORY ERROR, NINE MONITORING WELLS WERE RESAMPLED ON JULY 21, 2010.

N

0 100 200
SCALE IN FEET

PROJECT NO: 008-2067	WEST DIVIDE CREEK SEEP AREA BENZENE CONCENTRATIONS 2ND QUARTER 2010 GARFIELD COUNTY, COLORADO	FIGURE
DRAWN BY: BLM		3
DATE:. 8/27/10		

OLSSON ASSOCIATES
4690 Table Mountain Drive
Suite 200
Golden, CO 80403
TEL 303.237.2072
FAX 303.237.2659

F:\Projects\008-2067_MUNI\Exhibits\82067_DC-TM610.dwg Layout: Layout1

S88°11'12"W – 2620.17' (Meas.)

Section Line

Northwest Corner
Section 12
(1987 Brass Cap)

North 1/4 Corner
Section 12
(1987 Brass Cap)

N00°07'06"E (Basis of Bearings) 2626.37' (Meas.)

Section Line

1/16 Section Line

Site Boundary

NW 1/4

NW 1/4 NW 1/4

NE 1/4 NW 1/4

SW 1/4 NW 1/4

SE 1/4 NW 1/4

Langegger

Thompson

Bridge

Eicher

Gate

Cabin

Pond

Marshland

West Divide Creek

℄ Multa Trina Ditch

Water Well 2

Eich1

Eich2 0.014

MW27 <0.0008

MW23 <0.0008

MW24 0.00178

MW21 0.00156

MW20 0.00369

MW22 <0.0008

MW18

MW26 0.778

MW8 0.0192

MW17 0.0107

MW7 <0.0008

MW1 <0.0008

MW6 0.00989

MW16 0.0889

MW2 8.71

MW15 <0.0008

MW4 8.35

MW12 0.672

MW9 6.8

MW14 4.79

MW11 0.0615

MW19 (Plugged)

MW25 0.0103

MW13 (Plugged)

DCS1 DCS2 DCS3 DCS4 DCS5 DCS6 DCS7 DCS8

AS-1 AS-2 AS-3 AS-4 AS-5 AS-7 AS-8 AS-9 AS-10 AS-11 AS-13 AS-14 AS-15 AS-18 AS-19

<1.0

5.0

0.264

1/16 Section Line

West 1/4 Corner
Section 12
(Rebar)

1/4 Section Line

Sec. 12

LEGEND

- = SECTION CORNERS FOUND
- = TRAIL
- = ROAD
- = FENCE
- = OLD FENCE
- = PROPERTY LINE
- = DRAINAGE
- 5.0 = THERMOGENIC & BIOGENIC METHANE CONCENTRATION CONTOUR IN mg/L
- 5.7 = THERMOGENIC & BIOGENIC METHANE CONCENTRATION IN mg/L
- NS = NOT SAMPLED
- X = DIVIDE CREEK SAMPLE
- = MONITORING WELL LOCATION
- = AIR SPARGE WELL LOCATION
- = NESTED AIR SPARGE WELL LOCATION

N

0 100 200
SCALE IN FEET

PROJECT NO: 008-2067 DRAWN BY: BLM DATE:. 9/7/10	WEST DIVIDE CREEK SEEP AREA TOTAL DISSOLVED METHANE CONCENTRATIONS JUNE 2010 GARFIELD COUNTY, COLORADO	OLSSON ASSOCIATES 4690 Table Mountain Drive Suite 200 Golden, CO 80403 TEL 303.237.2072 FAX 303.237.2659	FIGURE 4

F:\Projects\008-2067_MUNI\Exhibits\82067_DC-BTEX610-hit.dwg Layout: Layout1

S88°11'12"W – 2620.17' (Meas.)

Section Line

Northwest Corner
Section 12
(1987 Brass Cap)

North 1/4 Corner
Section 12
(1987 Brass Cap)

N00°07'06"E (Basis of Bearings) 2626.37' (Meas.)

Section Line

1/16 Section Line

Site Boundary

Bridge

Eicher

Gate

Cabin

Pond

Water Well 2

Marshland

West Divide Creek

Muka Trina Ditch

Thompson

Langegger
NE 1/4 NW 1/4

Langegger
SW 1/4 NW 1/4

Langegger
SE 1/4 NW 1/4

NW 1/4 NW 1/4

NW 1/4

MW1 MW2 MW4 MW6 MW7 MW8 MW9 MW11 MW12 MW13 (Plugged) MW14 MW15 MW16 MW17 MW18 MW19 (Plugged) MW20 MW21 MW22 MW23 MW24 MW25 MW26

Eich1 Eich2

DCS1 DCS2 DCS3 DCS4 DCS5 DCS6 DCS7 DCS8

AS-1 AS-2 AS-3 AS-4 AS-5 AS-7 AS-8 AS-9 AS-10 AS-11 AS-13 AS-14 AS-15 AS-18 AS-19

	3/10	2nd Qtr
B	<1.0	<1.0
T	<2.0	<2.0
E	<2.0	<2.0
X	<2.0	<2.0
M	<0.0008	<0.0008

	3/10	2nd Qtr
B	<1.0	<1.0
T	<2.0	<2.0
E	<2.0	<2.0
X	<2.0	<2.0
M	<0.0008	0.00156

	3/10	2nd Qtr
B	<1.0	<1.0
T	<2.0	<2.0
E	<2.0	<2.0
X	<2.0	<2.0
M	<0.0008	0.00369

	3/10	2nd Qtr
B	<1.0	<1.0
T	<2.0	<2.0
E	<2.0	<2.0
X	<2.0	<2.0
M	<0.0008	<0.0008

	3/10	2nd Qtr
B	**24.6**	**13**
T	<2.0	<2.0
E	<2.0	<2.0
X	<2.0	<2.0
M	3.25	0.0107

	3/10	2nd Qtr
B	<1.0	<1.0
T	<2.0	<2.0
E	<2.0	<2.0
X	<2.0	<2.0
M	0.0752	0.0192

	3/10	2nd Qtr
B	<1.0	<1.0
T	<2.0	<2.0
E	<2.0	<2.0
X	<2.0	<2.0
M	<0.0008	<0.0008

	3/10	2nd Qtr
B	**87.7**	**144**
T	<2.0	2.2
E	<2.0	<2.0
X	24	33.3
M	7.49	8.71

	3/10	Dup 3/10	2nd Qtr	Dup 2nd Qtr
B	<1.0	<1.0	<1.0	<1.0
T	<2.0	<2.0	<2.0	<2.0
E	<2.0	<2.0	<2.0	<2.0
X	<2.0	<2.0	<2.0	<2.0
M	0.636	0.527	0.0889	0.0135

	3/10	2nd Qtr
B	<1.0	<1.0
T	<2.0	<2.0
E	<2.0	<2.0
X	<2.0	<2.0
M	0.0698	0.0615

	3/10	2nd Qtr
B	<1.0	<1.0
T	<2.0	<2.0
E	<2.0	<2.0
X	<2.0	<2.0
M	0.004	0.0103

	3/10	2nd Qtr
B	<1.0	<1.0
T	<2.0	<2.0
E	<2.0	<2.0
X	<2.0	<2.0
M	0.176	0.672

	3/10	2nd Qtr
B	<1.0	<1.0
T	<2.0	<2.0
E	<2.0	<2.0
X	<2.0	<2.0
M	0.0444	0.264

	3/10	2nd Qtr
B	<1.0	<1.0
T	<2.0	<2.0
E	<2.0	<2.0
X	<2.0	<2.0
M	1.25	0.778

	3/10	2nd Qtr
B	<1.0	<1.0
T	<2.0	<2.0
E	<2.0	<2.0
X	<2.0	<2.0
M	<0.0008	<0.0008

	3/10	2nd Qtr
B	<1.0	<1.0
T	<2.0	<2.0
E	<2.0	<2.0
X	<2.0	<2.0
M	0.00197	0.00989

	3/10	2nd Qtr
B	<1.0	<1.0
T	<2.0	<2.0
E	<2.0	<2.0
X	<2.0	<2.0
M	<0.0008	<0.0008

	3/10	2nd Qtr
B	**21.6**	**41.2**
T	<2.0	<2.0
E	<2.0	<2.0
X	8	15.8
M	6.28	8.35

	3/10	2nd Qtr
B	<1.0	<1.0
T	<2.0	<2.0
E	<2.0	<2.0
X	<2.0	<2.0
M	6.74	4.79

	3/10	2nd Qtr
B	<1.0	1.8
T	<2.0	<2.0
E	<2.0	<2.0
X	<2.0	<2.0
M	9.24	6.8

	3/10	Dup 3/10	2nd Qtr	Dup 2nd Qtr
B	<1.0	<1.0	<1.0	<1.0
T	<2.0	<2.0	<2.0	<2.0
E	<2.0	<2.0	<2.0	<2.0
X	<2.0	<2.0	<2.0	<2.0
M	0.0724	0.0964	<0.0008	<0.0008

West 1/4 Corner
Section 12
(Rebar)

1/4 Section Line

Sec. 12

LEGEND

- = SECTION CORNERS FOUND
- = TRAIL
- = ROAD
- = FENCE
- = OLD FENCE
- = PROPERTY LINE
- = DRAINAGE

X = DIVIDE CREEK SAMPLE LOCATION
• = MONITORING WELL LOCATION
⊗ = AIR SPARGE WELL LOCATION
⊗ = NESTED AIR SPARGE WELL LOCATION

NOTE:
GROUNDWATER SAMPLES WERE COLLECTED ON JUNE 28 AND JUNE 29, 2010. DUE TO A SUSPECTED LABORATORY ERROR, NINE MONITORING WELLS WERE RESAMPLED ON JULY 21, 2010.

CHEMICAL DATA

B = BENZENE (µg/l)
T = TOLUENE (µg/l)
E = ETHYLBENZENE (µg/l)
X = XYLENES (µg/l)
M = TOTAL METHANE (mg/L)

N

0 100 200
SCALE IN FEET

PROJECT NO: 008-2067	WEST DIVIDE CREEK SEEP AREA BTEX CONCENTRATIONS 2ND QUARTER 2010 GARFIELD COUNTY, COLORADO	FIGURE
DRAWN BY: BLM		5
DATE:. 8/27/10		

OLSSON ASSOCIATES
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Suite 200
Golden, CO 80403
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APPENDIX A

Field Data
included as .pdf file on CD in back

Appendix A
Field Data for March 2010
Encana, West Divide Creek Seep
Garfield County, Colorado

Date	SampleName	Temp_ Field	SpCond_Field	DO_Field	pH_ Field	TDS_ Field	DO_Percent	Turbidity_ Field	DTW
29-Jun-10	EICH2	13.06	1.550	2.04	7.54	3.9	19.6	106	-88.8
28-Jun-10	MW23	9.74	1.64	3.20	7.80	1.0	28.2	248	12.46
28-Jun-10	MW23D	9.74	1.64	3.20	7.80	1.0	28.2	248	12.46
28-Jun-10	MW27	13.32	1.018	2.13	7.88	0.7	20.4	41.6	6.31
21-Jul-10	MW27	17.19	0.978	1.37	9.04	0.6	17.1	97.3	-88.8
29-Jun-10	DCS1	15.4	0.700	6.83	8.54	0.5	68.4	95.8	-88.8
29-Jun-10	DCS2	15.52	0.700	7.47	8.57	0.5	74.9	68.5	-88.8
29-Jun-10	DCS3	15.60	0.700	7.26	8.58	0.5	73.2	42.5	-88.8
29-Jun-10	DCS4	16.09	0.697	7.20	8.60	0.5	73.4	30	-88.8
29-Jun-10	DCS5	16.45	0.696	7.56	8.63	0.5	76.9	102	-88.8
29-Jun-10	DCS6	18.38	0.682	6.18	8.38	0.4	79.0	595	-88.8
29-Jun-10	DCS7	18.63	0.681	6.07	8.45	0.4	78.6	744	-88.8
29-Jun-10	DCS8	19.10	0.678	6.20	8.42	0.4	82.8	90	-88.8
28-Jun-10	MW1	16.4	0.089	2.01	7.61	-88.8	-88.8	-88.8	4.73
21-Jul-10	MW1	12.92	1.54	1.01	7.27	1.0	9.6	32.9	-88.8
28-Jun-10	MW11	8.81	0.669	2.76	7.62	0.4	23.7	546	4.80
21-Jul-10	MW11	16.00	0.236	2.33	8.40	0.2	22.9	278	-88.8
28-Jun-10	MW12	10.27	0.987	2.32	7.48	0.6	20.4	178	2.97
28-Jun-10	MW14	9.40	0.775	3.31	7.65	0.5	28.8	5999	5.44
29-Jun-10	MW15	10.70	0.685	4.05	7.92	0.4	35.9	106	-88.8
28-Jun-10	MW16	16.8	0.504	1.78	8.06	-88.8	-88.8	-88.8	3.03
21-Jul-10	MW16	12.68	1.022	0.88	7.84	0.7	8.2	49.8	-88.8
28-Jun-10	MW16D	16.8	0.504	1.78	8.06	-88.8	-88.8	-88.8	3.03
21-Jul-10	MW16D	12.68	1.022	0.88	7.84	0.7	8.2	49.8	-88.8
28-Jun-10	MW17	14.3	0.072	2.31	8.82	-88.8	-88.8	-88.8	4.05
21-Jul-10	MW17	13.28	1.82	0.71	7.46	1.0	6.6	24.1	-88.8
29-Jun-10	MW18	13.30	0.741	2.06	7.96	0.5	23.5	106	-88.8
28-Jun-10	MW2	15.7	0.926	1.59	6.61	-88.8	-88.8	-88.8	5.09
21-Jul-10	MW2	15.14	0.877	1.25	7.02	0.6	11.3	17.0	-88.8
29-Jun-10	MW20	10.78	0.932	3.07	7.65	0.6	27.3	654	11.64
29-Jun-10	MW21	9.73	1.224	2.70	7.86	0.8	23.7	483	22.65
29-Jun-10	MW22	9.43	1.216	3.80	7.54	0.8	33.3	510	9.36
29-Jun-10	MW24	12.58	0.724	2.65	7.71	0.5	24.5	142	3.85
28-Jun-10	MW25	7.63	0.691	2.94	7.79	0.4	24.1	771	3.40
21-Jul-10	MW25	11.03	0.589	1.16	8.76	0.4	11.5	122	-88.8
28-Jun-10	MW26	15.10	0.644	1.19	6.51	-88.8	-88.8	-88.8	1.09
28-Jun-10	MW4	15.6	0.713	2.35	6.79	-88.8	-88.8	-88.8	8.10
21-Jul-10	MW4	15.25	0.835	0.99	7.69	0.5	9.5	114	-88.8
28-Jun-10	MW6	15.0	0.928	2.32	8.14	-88.8	-88.8	-88.8	6.80
28-Jun-10	MW7	15.3	0.869	2.63	6.55	-88.8	-88.8	-88.8	6.09
21-Jul-10	MW7	14.41	0.996	1.68	7.31	0.6	16.5	296	-88.8
28-Jun-10	MW8	13.93	0.968	1.78	8.52	-88.8	-88.8	-88.8	7.62
28-Jun-10	MW9	12.58	0.795	2.28	7.56	0.5	21.4	382	4.44

Appendix A
Field Data for March 2010
Encana, West Divide Creek Seep
Garfield County, Colorado

Date	SampleName	Sample Description	Sampler	SampleSource
29-Jun-10	EICH2	Domestic well; WQ: clear, no odor, no sheen, no effervescence	SH	Well
28-Jun-10	MW23	Divide Creek monitoring well #23; WQ: brown, no odor, no sheen, no effervescence	SH	Well
28-Jun-10	MW23D	Divide Creek monitoring well #23 duplicate; WQ: brown, no odor, no sheen, no effervescence	SH	Well
28-Jun-10	MW27	Divide Creek monitoring well #27; WQ: black, slight sulfur odor, no sheen, no effervescence	SH	Well
21-Jul-10	MW27	Divide Creek monitoring well #27; resample due to suspected laboratory error; WQ: clear, strong sulfur odor, no sheen, noeffervescence	SH	Well
29-Jun-10	DCS1	Divide Creek monitoring station 1	SH	Stream
29-Jun-10	DCS2	Divide Creek monitoring station 2	SH	Stream
29-Jun-10	DCS3	Divide Creek monitoring station 3	SH	Stream
29-Jun-10	DCS4	Divide Creek monitoring station 4	SH	Stream
29-Jun-10	DCS5	Divide Creek monitoring station 5	SH	Stream
29-Jun-10	DCS6	Divide Creek monitoring station 6	KK	Stream
29-Jun-10	DCS7	Divide Creek monitoring station 7	KK	Stream
29-Jun-10	DCS8	Divide Creek monitoring station 8	KK	Stream
28-Jun-10	MW1	Divide Creek monitoring well #1	BS	Well
21-Jul-10	MW1	Divide Creek monitoring well #1; resample due to suspected laboratory error; WQ: clearish, no odor, no sheen, no effervescence	JS	Well
28-Jun-10	MW11	Divide Creek monitoring well #11; WQ: brown, no odor, slight effervescence	SH	Well
21-Jul-10	MW11	Divide Creek monitoring well #11; resample due to suspected laboratory error; WQ: brown, sulfur odor	SH	Well
28-Jun-10	MW12	Divide Creek monitoring well #12; WQ: light brown, no odor	SH	Well
28-Jun-10	MW14	Divide Creek monitoring well #14; WQ: black, slight sulfur odor	SH	Well
29-Jun-10	MW15	Divide Creek monitoring well #15; WQ: clear, no odor, no sheen, no effervescence; Flooded	SH	Well
28-Jun-10	MW16	Divide Creek monitoring well #16	BS	Well
21-Jul-10	MW16	Divide Creek monitoring well #16; resample due to suspected laboratory error; WQ: clear/brown, slight sulfur odor, no sheen, no effervescence	JS	Well
28-Jun-10	MW16D	Divide Creek monitoring well #16 duplicate	BS	Well
21-Jul-10	MW16D	Divide Creek monitoring well #16 duplicate; resample due to suspected laboratory error; WQ: clear/brown, slight sulfur odor, no sheen, no effervescence	JS	Well
28-Jun-10	MW17	Divide Creek monitoring well #17	BS	Well
21-Jul-10	MW17	Divide Creek monitoring well #17; resample due to suspected laboratory error; WQ: brown/clear, slight sulfur odor, no sheen, no effervescence	JS	Well
29-Jun-10	MW18	Divide Creek monitoring well #18	KK	Well
28-Jun-10	MW2	Divide Creek monitoring well #2	BS	Well
21-Jul-10	MW2	Divide Creek monitoring well #2; resample due to suspected laboratory error; WQ: clear, no odor, no sheen, no effervescence	JS	Well
29-Jun-10	MW20	Divide Creek monitoring well #20; WQ: brown, no odor, no sheen, no effervescence	SH	Well
29-Jun-10	MW21	Divide Creek monitoring well #21; WQ: brown, slight sulfur odor, no sheen, no effervescence	SH	Well
29-Jun-10	MW22	Divide Creek monitoring well #22; WQ: brown, slight sulfur odor, no sheen, no effervescence	SH	Well
29-Jun-10	MW24	Divide Creek monitoring well #24	SH	Well
28-Jun-10	MW25	Divide Creek monitoring well #25; WQ: light brown, no odor	SH	Well
21-Jul-10	MW25	Divide Creek monitoring well #25; resample due to suspected laboratoyr error; WQ: brown, no odor, no sheen, no effervescence	SH	Well
28-Jun-10	MW26	Divide Creek monitoring well #26	BS	Well
28-Jun-10	MW4	Divide Creek monitoring well #4	BS	Well
21-Jul-10	MW4	Divide Creek monitoring well #4; resample due to suspected laboratory error; WQ: clear/brown, no odor, no sheen, no effervescence	JS	Well
28-Jun-10	MW6	Divide Creek monitoring well #6	BS	Well
28-Jun-10	MW7	Divide Creek monitoring well #7	BS	Well
21-Jul-10	MW7	Divide Creek monitoring well #7; resample due to suspected laboratory error; WQ: clear/brown, no odor, no sheen, no effervescence	JS	Well
28-Jun-10	MW8	Divide Creek monitoring well #8	BS	Well
28-Jun-10	MW9	Divide Creek monitoring well #9; WQ: gray/black, no odor	SH	Well

APPENDIX B

Historical Groundwater Results
included as .pdf file on CD in back

Appendix B

Summary of Historical Groundwater Analytical Results and Groundwater Elevations
Encana, West Divide Creek Seep
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-01	09-Jul-04	**220**	NA	NA	NA	11			
MW-01	22-Jul-04	**470**	NA	NA	NA	9.9		4.09	5954.70
MW-01	03-Aug-04	**460**	310	10	96	6		9.54	5949.25
MW-01	19-Aug-04	NS	NS	NS	NS	NS		9.96	5948.83
MW-01	15-Sep-04	**330**	130	8.1	53	8.6	6.9	10.32	5948.47
MW-01	13-Oct-04	**190**	31	5.3	18.3	7.4		9.87	5948.92
MW-01	09-Nov-04	**88**	<2	3.1	<2	5.3		9.70	5949.09
MW-01	14-Dec-04	**35**	<2	<2	<2	5.9		9.23	5949.56
MW-01	12-Jan-05	**10**	<2	<2	<2	4.7	3.5	8.63	5950.16
MW-01	09-Feb-05	**14**	<2	<2	<2	2.9	2.3	8.81	5949.98
MW-01	08-Mar-05	4.8	<2	<2	<2	2.6		8.96	5949.83
MW-01	12-Apr-05	<1	<2	<2	<2	0.38		5.73	5953.06
MW-01	10-May-05	<1	<2	<2	<2	0.38	0.3	5.19	5953.60
MW-01	08-Jun-05	<1	<2	<2	<2	<0.0008		3.03	5955.76
MW-01	12-Jul-05	<1	<2	<2	<2	<0.0008		4.13	5954.66
MW-01	09-Aug-05	<1	<2	<2	<2	0.11		5.36	5953.43
MW-01	12-Sep-05	<1	<2	<2	<2	0.068	0.0	6.18	5952.61
MW-01	11-Oct-05	<1	<2	<2	<2	0.17			
MW-01	08-Nov-05	<1	<2	<2	<2	0.12		6.47	5952.32
MW-01	08-Dec-05	<1	<2	<2	<2	0.086		6.72	5952.07
MW-01	11-Jan-06	<1	<2	<2	<2	0.055	0.0	6.31	5952.48
MW-01	15-Mar-06	<1	<2	<2	<2	0.0086		6.01	5952.78
MW-01	12-Apr-06	<1	<2	<2	<2	<0.0008		5.42	5953.37
MW-01	09-May-06	<1	<2	<2	<2	<0.0008		4.45	5954.34
MW-01	12-Jun-06	<1	<2	<2	<2	0.011			
MW-01	07-Sep-06	<1	<5	<2	<2	0.15		7.60	5951.19
MW-01	05-Dec-06	<1	<2	<2	<2	0.00085		6.68	5952.11
MW-01	13-Mar-07	<1	<2	<2	<2	0.0023		6.10	5952.69
MW-01	20-Jun-07	<1	<2	<2	<2	<0.0008			
MW-01	11-Sep-07	<0.5	<0.5	<0.5	<0.5	0.000144		7.95	5950.84
MW-01	11-Sep-07	<1	<2	<2	<2	0.001		7.95	5950.84
MW-01	18-Dec-07	<1	<2	<2	<2	0.0022		6.83	5951.96
MW-01	04-Mar-08	<1	<2	<2	<2	<0.0008		5.85	5952.94
MW-01	17-Jun-08	<1	<2	<2	<2	<0.0008		3.33	5955.46
MW-01	30-Sep-08	<1	4.1	<2	<2	<0.0008		7.50	5951.29
MW-01	09-Dec-08	<1	<2	<2	<2	0.18		6.65	5952.14
MW-01	17-Mar-09	<1	<2	<2	<2	0.0065		6.32	5952.47
MW-01	15-Jun-09	<1	<2	<2	<2	<0.0008		4.10	5954.69
MW-01	16-Sep-09	<1	<2	<2	<2	0.0022		7.24	5951.55
MW-01	15-Dec-09	<1	<2	<2	<2	0.019		6.60	5952.19
MW-01	29-Mar-10	<1	<2	<2	<2	<0.0008		5.66	5953.13
MW-01	28-Jun-10	<1	2.5	<2	<2	<0.0008		4.73	5954.06
MW-01[a]	21-Jul-10	<1	<2	<2	<2				
MW-02	09-Jul-04	**240**	NA	NA	NA	12			
MW-02	22-Jul-04	**240**	NA	NA	NA	12		5.60	5953.68
MW-02	03-Aug-04	**420**	400	<2	96	4.4		9.10	5950.18
MW-02	19-Aug-04	NS	NS	NS	NS	NS		9.00	5950.28
MW-02	15-Sep-04	**340**	240	10	95	11	9.5	9.02	5950.26
MW-02	13-Oct-04	**370**	110	9	78	5.8		8.70	5950.58
MW-02	09-Nov-04	**390**	<2	<2	<2	3.3		8.70	5950.58
MW-02	13-Dec-04	**270**	46	8.2	56.4	3.8		8.54	5950.74
MW-02	12-Jan-05	**370**	4.5	6.5	27.1	6.9	6.5	8.47	5950.81
MW-02	09-Feb-05	**420**	<10	<10	<10	3	2.6	4.09	5955.19
MW-02	09-Feb-05	**420**	2.4	8.6	43.5	2.6	3.0	11.95	5947.33
MW-02	09-Feb-05	**340**	<5	6.7	33	0.65		4.09	5955.19
MW-02	08-Mar-05	**280**	<10	<10	<10	4.4		8.82	5950.46
MW-02	12-Apr-05	**360**	<2	<2	<2	6.8		5.01	5954.27

Appendix B

Summary of Historical Groundwater Analytical Results and Groundwater Elevations
Encana, West Divide Creek Seep
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-02	09-May-05	**330**	<10	<10	<10	5.9	5.4	4.49	5954.79
MW-02	08-Jun-05	**98**	<2	3.4	23.6	6.4		3.22	5956.06
MW-02	12-Jul-05	**180**	2.8	4.5	30.4	3.8		7.67	5951.61
MW-02	09-Aug-05	**430**	33	13	113	7.3		5.01	5954.27
MW-02	12-Sep-05	**270**	<10	<10	<10	4.9	4.3	5.31	5953.97
MW-02	11-Oct-05	**350**	<10	<10	<10	5.9			
MW-02	07-Nov-05	**290**	32	<10	<10	3.5			
MW-02	07-Dec-05	**270**	<10	<10	<10	5.1		5.12	5954.16
MW-02	07-Dec-05	**290**	35	8.1	49	8.4		5.12	5954.16
MW-02	07-Dec-05	**290**	<10	<10	<10	6.5		5.12	5954.16
MW-02	11-Jan-06	**340**	<2	8.8	62.5	9		5.13	5954.15
MW-02	11-Jan-06	**174**	<2	4.9	36.9	3.1		5.13	5954.15
MW-02	11-Jan-06	**310**	<2	8.5	63.9	8	6.8	5.13	5954.15
MW-02	14-Feb-06	**219**	<2	5.8	37.3	9.3		5.19	5954.09
MW-02	15-Mar-06	**200**	<2	4.8	26.8	0.013		4.98	5954.30
MW-02	12-Apr-06	**210**	<2	6.6	45.7	7.3		4.51	5954.77
MW-02	09-May-06	**240**	<2	7.2	53.6	4.1		4.05	5955.23
MW-02	12-Jun-06	**280**	<2	11	93	12			
MW-02	07-Sep-06	**240**	<25	<10	<10	7.1	5.7	9.05	5950.23
MW-02	05-Dec-06	**260**	<2	5.3	22.6	6.7	4.3	5.42	5953.86
MW-02	12-Mar-07	**230**	<2	5.8	37.8	7.8	6.1	5.20	5954.08
MW-02	12-Mar-07	**250**	<2	6.5	43.4	9.4		5.20	5954.08
MW-02	12-Mar-07	**212**	<2	8.05	51.43	0.0691		5.20	5954.08
MW-02	20-Jun-07	**220**	<2	5.3	36.1	6.1			
MW-02	20-Jun-07	**190**	NA	4.6	31.6	4.5			
MW-02	20-Jun-07	**94**	<0.25	5.5	43.49	0.979			
MW-02	12-Sep-07	**260**	<2	8.1	51.2	3.5	2.7	6.13	5953.15
MW-02	18-Dec-07	**180**	<2	4.3	29.8	7.4		5.42	5953.86
MW-02	03-Mar-08	**120**	<2	2.6	<2	5.8	3.6	4.91	5954.37
MW-02	03-Mar-08	**186**	<0.5	5.1	<0.5	1.86		4.91	5954.37
MW-02	17-Jun-08	**230**	<2	10	98	6.6	4.9	4.02	5955.26
MW-02	01-Oct-08	**160**	<2	4.6	27.8	4.7	3.5	6.40	5952.88
MW-02	10-Dec-08	**140**	<2	4	32	7.3	5.4	6.00	5953.28
MW-02	17-Mar-09	**93**	<2	<2	13	6.1	3.4	5.50	5953.78
MW-02	15-Jun-09	**110**	<2	<2	28.8	8.3	6.6	4.45	5954.83
MW-02	15-Jun-09	**94**	<2	<2	24.1	9.2	7.3	4.45	5954.83
MW-02	16-Sep-09	**160**	<2	2.5	20.1	7.5	5.7	9.00	5950.28
MW-02	15-Dec-09	**110**	<2	2.0	30.4	9.1	7.1	5.80	5953.48
MW-02	30-Mar-10	**87.7**	<2	<2	24.0	7.49	5.2	4.83	5954.45
MW-02	28-Jun-10	**72**	3.0	<2	24.9	8.71	6.4	5.09	5954.19
MW-02[a]	21-Jul-10	**144**	2.2	<2	33.3				
MW-04	12-Jan-04	**320**	35	8.1	49	6.1			5963.41
MW-04	09-Jul-04	**230**	NA	NA	NA	11			
MW-04	22-Jul-04	**440**	NA	NA	NA	11		8.46	5954.95
MW-04	03-Aug-04	**400**	160	<2	87	6.7		8.60	5954.81
MW-04	15-Sep-04	**240**	59	6.7	60	27		8.41	5955.00
MW-04	15-Sep-04	**320**	76	9.5	80.5	9.2	7.4	8.41	5955.00
MW-04	15-Sep-04	**330**	76	9.1	77.1	8.6		8.41	5955.00
MW-04	14-Oct-04	**210**	<50	6.1	37	4.4		8.38	5955.03
MW-04	14-Oct-04	**300**	51	9	59	9.3		8.38	5955.03
MW-04	14-Oct-04	**300**	37	9	55.2	5.6		8.38	5955.03
MW-04	09-Nov-04	**290**	41	<2	<2	9.1		4.90	5958.51
MW-04	02-Dec-04	**280**	19	<10	<10	14			
MW-04	08-Dec-04	**280**	110	7.8	72	17			
MW-04	13-Dec-04	**240**	33	12	97	7.8		7.93	5955.48
MW-04	13-Dec-04	**270**	36	8.1	64.9	14		7.93	5955.48
MW-04	13-Dec-04	**270**	37	7.7	62.6	12		7.93	5955.48

Appendix B

Summary of Historical Groundwater Analytical Results and Groundwater Elevations
Encana, West Divide Creek Seep
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-04	12-Jan-05	**350**	68	11	71.9	14	11.9	7.40	5956.01
MW-04	12-Jan-05	**360**	40	11	62.3	14		7.40	5956.01
MW-04	09-Feb-05	**280**	57	8.5	52.7	10	8.5	8.02	5955.39
MW-04	08-Mar-05	**350**	160	<10	79	9.8		8.02	5955.39
MW-04	12-Apr-05	**130**	33	<2	<2	8.9		8.39	5955.02
MW-04	12-Apr-05	**130**	52	<2	<2	10		8.39	5955.02
MW-04	12-Apr-05	**280**	<1200	<120	NA	8.7		8.39	5955.02
MW-04	09-May-05	**310**	66	11	16	10	8.6	7.23	5956.18
MW-04	09-May-05	**320**	77	11	16	11		7.23	5956.18
MW-04	08-Jun-05	**180**	17	4.7	4.3	12		7.25	5956.16
MW-04	11-Jul-05	0.69	<1200	<120	NA	<1		7.83	5955.58
MW-04	11-Jul-05	**170**	40	3.3	38.7	7.8	6.4	7.83	5955.58
MW-04	11-Jul-05	**180**	32	3.8	34.9	6.1		7.83	5955.58
MW-04	09-Aug-05	**270**	41	<10	69	8.3		8.15	5955.26
MW-04	09-Aug-05	**240**	46	<10	65	8.5		8.15	5955.26
MW-04	09-Aug-05	**170**	29	2.2	62	2.7		8.15	5955.26
MW-04	12-Sep-05	**260**	7.6	8	74	8.8	7.1	8.22	5955.19
MW-04	11-Oct-05	**220**	5.1	6.8	66.4	7.3			
MW-04	08-Nov-05	**300**	<10	<10	96	8.2		8.03	5955.38
MW-04	07-Dec-05	**230**	<10	<10	<10	8.6		7.93	5955.48
MW-04	10-Jan-06	**270**	<2	8	73	8.5		7.98	5955.43
MW-04	10-Jan-06	**97**	<2	<2	37	8.3		7.98	5955.43
MW-04	10-Jan-06	**270**	<2	6.5	71	8.8	7.1	7.98	5955.43
MW-04	14-Feb-06	**249**	<2	9	73.6	8.8		7.98	5955.43
MW-04	15-Mar-06	**260**	<2	8.6	66.6	14		8.04	5955.37
MW-04	12-Apr-06	**220**	<2	8.6	49.9	9.3		7.10	5956.31
MW-04	09-May-06	**150**	2.5	6.3	40	3.7		6.98	5956.43
MW-04	12-Jun-06	**220**	<2	8.3	74	9.2			
MW-04	06-Sep-06	**200**	<2	7.3	68	10	8.2	8.41	5955.00
MW-04	05-Dec-06	**200**	<2	7	70.9	10	7.8	7.99	5955.42
MW-04	12-Mar-07	**220**	<2	7	67.2	9.8		7.85	5955.56
MW-04	12-Mar-07	**200**	NA	6	55.9	7.6		7.85	5955.56
MW-04	12-Mar-07	**172**	<0.25	6.73	69.28	0.0592		7.85	5955.56
MW-04	22-Jun-07	**110**	<2	<2	39.2	6.4			
MW-04	13-Sep-07	**170**	<2	4.8	57.9	5.6		8.52	5954.89
MW-04	18-Dec-07	**170**	<2	3.7	53.4	8.4		8.07	5955.34
MW-04	04-Mar-08	**130**	<2	3.3	31.6	8.5	6.4	7.70	5955.71
MW-04	17-Jun-08	**85**	2.3	<2	23	3.7	2.6	7.65	5955.76
MW-04	01-Oct-08	**110**	<2	<2	33.7	6.2	4.8	8.60	5954.81
MW-04	01-Oct-08	**120**	<2	<2	34.9	5		8.60	5954.81
MW-04	09-Dec-08	**100**	<2	<2	28.4	8.6	6.5	8.35	5955.06
MW-04	16-Mar-09	**81**	<2	<2	17.3	9.2	6.6	8.05	5955.36
MW-04	16-Mar-09	**83**	<2	<2	18.5	9.1	6.5	8.05	5955.36
MW-04	16-Mar-09	**73**	<1	<1	15.7	5.99		8.05	5955.36
MW-04	16-Jun-09	**5.4**	<2	<2	7.0	6.8	5.0	8.00	5955.41
MW-04	14-Jul-09	**27**	<2	2.2	21.6	10		8.09	5955.32
MW-04	16-Sep-09	**100**	<2	3.7	32.9	8.1	6.1	8.58	5954.83
MW-04	15-Dec-09	**35**	<2	<2	21.4	8.8		8.40	5955.01
MW-04	30-Mar-10	**21.6**	<2	<2	8.0	6.28	3.8	7.78	5955.63
MW-04	28-Jun-10	**59.4**	3	2.2	21.7	8.35	6.3	8.10	5955.31
MW-04[a]	21-Jul-20	**41.2**	<2	<2	15.8				
MW-06	09-Jul-04	1.1	NA	NA	NA	0.011			
MW-06	22-Jul-04	0.023	NA	NA	NA	0.023		9.74	5950.20
MW-06	03-Aug-04	1.5	<2	<2	<2	0.083		9.89	5950.05
MW-06	15-Sep-04	<1	<2	<2	<2	0.38	0.4	9.67	5950.27
MW-06	14-Oct-04	<1	<2	<2	<2	0.14		9.48	5950.46
MW-06	10-Nov-04	<1	<2	<2	<2	0.057		9.60	5950.34

Appendix B

Summary of Historical Groundwater Analytical Results and Groundwater Elevations
Encana, West Divide Creek Seep
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-06	14-Dec-04	<1	<2	<2	<2	0.054		9.24	5950.70
MW-06	14-Dec-04	<1	<2	<2	<2	0.4		9.24	5950.70
MW-06	14-Dec-04	<0.5	<5	<0.5	NA	0.071		9.24	5950.70
MW-06	13-Jan-05	<1	<2	<2	<2	0.056	0.0	8.87	5951.07
MW-06	09-Feb-05	<1	<2	<2	<2	0.023	0.0	9.06	5950.88
MW-06	08-Mar-05	3.1	<2	<2	<2	0.051		9.15	5950.79
MW-06	12-Apr-05	**6.5**	<2	<2	<2	0.092		6.59	5953.35
MW-06	10-May-05	<1	<2	<2	<2	0.18	0.2	5.82	5954.12
MW-06	08-Jun-05	1.3	<2	<2	<2	0.18		5.55	5954.39
MW-06	08-Jun-05	2.5	<2	<2	<2	0.22		5.55	5954.39
MW-06	08-Jun-05	2.2	<5	<0.5	NA	0.024		5.55	5954.39
MW-06	12-Jul-05	<1	<2	<2	<2	0.15			
MW-06	09-Aug-05	<1	<2	<2	<2	0.24		7.72	5952.22
MW-06	12-Sep-05	1.9	<5	<0.5	NA	<0.01		6.81	5953.13
MW-06	12-Sep-05	2	<2	<2	<2	0.12	0.0	6.81	5953.13
MW-06	12-Sep-05	1.9	<2	<2	<2	0.16		6.81	5953.13
MW-06	11-Oct-05	4.3	<2	<2	<2	4			
MW-06	08-Nov-05	3.7	<2	<2	<2	0.17			
MW-06	08-Nov-05	3.6	<2	<2	<2	0.17			
MW-06	08-Nov-05	2.1	<5	<0.5	NA	0.41			
MW-06	07-Dec-05	1.6	<2	<2	<2	0.13		6.88	5953.06
MW-06	11-Jan-06	<1	<2	<2	<2	0.14	0.1	6.94	5953.00
MW-06	14-Feb-06	0.6	<0.5	<0.5	<0.5	0.128		6.91	5953.03
MW-06	14-Feb-06	<0.5	<1	<1	<1	0.077		6.91	5953.03
MW-06	14-Feb-06	<0.5	<1	<1	<1	0.15		6.91	5953.03
MW-06	15-Mar-06	<1	<2	<2	<2	0.092		6.89	5953.05
MW-06	12-Apr-06	1.1	<2	<2	<2	0.046		6.15	5953.79
MW-06	12-Apr-06	1	NA	NA	NA	0.034		6.15	5953.79
MW-06	12-Apr-06	1.12	<0.25	<0.25	<0.25	0.125		6.15	5953.79
MW-06	09-May-06	<1	<2	<2	<2	0.029		5.89	5954.05
MW-06	12-Jun-06	<1	<2	<2	<2	0.0026			
MW-06	07-Sep-06	<0.25	<0.25	<0.25	<0.25	0.00523		7.53	5952.41
MW-06	07-Sep-06	<1	<5	<2	<2	0.038		7.53	5952.41
MW-06	07-Sep-06	<1	NA	<2	<2	0.031		7.53	5952.41
MW-06	05-Dec-06	<1	<2	<2	<2	<0.0008		7.04	5952.90
MW-06	13-Mar-07	<1	<2	<2	<2	0.0021		6.85	5953.09
MW-06	20-Jun-07	<1	<2	<2	<2	<0.0008			
MW-06	12-Sep-07	<1	<2	<2	<2	<0.0008		7.95	5951.99
MW-06	17-Dec-07	<0.5	<5	<0.5	<2	0.00846		7.15	5952.79
MW-06	17-Dec-07	<1	<2	<2	<2	0.0081		7.15	5952.79
MW-06	17-Dec-07	<1	<2	<2	<2	0.008		7.15	5952.79
MW-06	03-Mar-08	<1	<2	<2	<2	0.0015		6.75	5953.19
MW-06	17-Jun-08	<1	<2	<2	<2	0.0031		6.20	5953.74
MW-06	30-Sep-08	<1	<2	<2	<2	<0.008		7.60	5952.34
MW-06	30-Sep-08	<1	<2	<2	<2	<0.008		7.60	5952.34
MW-06	09-Dec-08	<1	<2	<2	<2	0.0092	<0.0008	7.25	5952.69
MW-06	16-Mar-09	<1	<2	<2	<2	<0.0008		7.00	5952.94
MW-06	15-Jun-09	<1	<2	<2	<2	0.0071		6.60	5953.34
MW-06	16-Sep-09	<1	<2	<2	<2	0.0014		7.45	5952.49
MW-06	15-Dec-09	<1	<2	<2	<2	0.0051		12.00	5947.94
MW-06	29-Mar-10	<1	<2	<2	<2	0.00197		6.91	5953.03
MW-06	28-Jun-10	<1	<2	<2	<2	0.00989		6.80	5953.14
MW-07	09-Jul-04	**200**	NA	NA	NA	0.67			5958.97
MW-07	22-Jul-04	**110**	NA	NA	NA	0.53		10.34	5948.63
MW-07	03-Aug-04	**32**	<2	<2	<2	0.73		10.46	5948.51
MW-07	15-Sep-04	**56**	<2	<2	<2	6		11.11	5947.86
MW-07	14-Oct-04	**32**	<2	<2	<2	0.78		10.70	5948.27

Appendix B

Summary of Historical Groundwater Analytical Results and Groundwater Elevations
Encana, West Divide Creek Seep
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-07	10-Nov-04	**16**	<2	<2	<2	0.65		10.70	5948.27
MW-07	19-Nov-04	**19**	<2	<2	<2	0.49			
MW-07	23-Nov-04	**17**	<2	<2	<2	0.67			
MW-07	07-Dec-04	<1	<2	<2	<2	0.04			
MW-07	14-Dec-04	**20**	<2	<2	<2	0.55		10.24	5948.73
MW-07	13-Jan-05	**16**	<2	<2	<2	0.53		9.89	5949.08
MW-07	09-Feb-05	**5.7**	<2	<2	<2	0.47		9.91	5949.06
MW-07	08-Mar-05	4.5	<2	<2	<2	0.58		10.06	5948.91
MW-07	20-Apr-05	<1	<2	<2	<2	<0.0008			
MW-07	10-May-05	<1	<2	<2	<2	<0.0008		6.22	5952.75
MW-07	10-May-05	<1	<2	<2	<2	<0.0008		6.22	5952.75
MW-07	10-May-05	<0.5	<5	<0.5	NA	0.031		6.22	5952.75
MW-07	08-Jun-05	<1	<2	<2	<2	<0.0008		4.47	5954.50
MW-07	12-Jul-05	<1	<2	<2	<2	<0.0008			
MW-07	09-Aug-05	<1	<2	<2	<2	<0.0008		6.13	5952.84
MW-07	12-Sep-05	<1	<2	<2	<2	0.0015		6.62	5952.35
MW-07	11-Oct-05	<1	<2	<2	<2	0.0075			
MW-07	11-Oct-05	<1	<2	<2	<2	0.026			
MW-07	11-Oct-05	<0.5	<5	<0.5	NA	<0.01			
MW-07	08-Nov-05	<1	<2	<2	<2	0.0059			
MW-07	08-Dec-05	<1	<2	<2	<2	0.017		6.92	5952.05
MW-07	11-Jan-06	<1	<2	<2	<2	0.014		6.95	5952.02
MW-07	14-Feb-06	<0.5	<1	<0.5	<1	<0.002		9.08	5949.89
MW-07	15-Mar-06	<1	<2	<2	<2	10		6.83	5952.14
MW-07	12-Apr-06	<1	<2	<2	<2	0.00092		6.23	5952.74
MW-07	09-May-06	<1	<2	<2	<2	0.036		5.67	5953.30
MW-07	12-Jun-06	<1	<2	<2	<2	0.0037			
MW-07	21-Jul-06	<1	<2	<2	<2	<0.0008			
MW-07	28-Jul-06	<1	<2	<2	<2	0.0012			
MW-07	04-Aug-06	<1	<2	<2	<2	<0.0008			
MW-07	11-Aug-06	<1	<2	<2	<2	<0.0008			
MW-07	16-Aug-06	<1	<2	<2	<2	0.0041		17.45	5941.52
MW-07	24-Aug-06	<1	<2	<2	<2	0.00092		7.72	5951.25
MW-07	31-Aug-06	<1	<2	<2	<2	0.0014		7.84	5951.13
MW-07	07-Sep-06	<1	<2	<2	<2	0.047		8.22	5950.75
MW-07	07-Sep-06	<0.25	<0.25	<0.25	<0.25	0.00163		8.22	5950.75
MW-07	13-Sep-06	<1	<2	<2	<2	0.0024		7.98	5950.99
MW-07	21-Sep-06	<0.25	<0.25	<0.25	<0.25	0.000762		7.93	5951.04
MW-07	21-Sep-06	<1	<2	<2	<2	0.002		7.93	5951.04
MW-07	27-Sep-06	<1	<2	<2	<2	0.004		7.82	5951.15
MW-07	06-Oct-06	<1	<2	<2	<2	<0.0008		7.88	5951.09
MW-07	12-Oct-06	<1	<2	<2	<2	0.0025		7.71	5951.26
MW-07	19-Oct-06	<1	<2	<2	<2	<0.0008		7.73	5951.24
MW-07	25-Oct-06	<1	<2	<2	<2	0.00082		7.62	5951.35
MW-07	01-Nov-06	<1	<2	<2	<2	0.0011		7.63	5951.34
MW-07	17-Nov-06	<1	<2	<2	<2	<0.0008		7.42	5951.55
MW-07	05-Dec-06	<1	<2	<2	<2	0.0011		7.37	5951.60
MW-07	03-Jan-07	<1	<2	<2	<2	<0.0008			
MW-07	17-Jan-07	<1	<2	<2	<2	<0.0008			
MW-07	05-Feb-07	<1	<2	<2	<2	<0.0008			
MW-07	22-Feb-07	<1	<2	<2	<2	0.0016		6.92	5952.05
MW-07	07-Mar-07	<1	<2	<2	<2	0.00094		6.75	5952.22
MW-07	13-Mar-07	<1	<2	<2	<2	0.0079		6.80	5952.17
MW-07	26-Mar-07	<1	<2	<2	<2	<0.0008			
MW-07	11-Apr-07	<1	<2	<2	<2	0.001			
MW-07	25-Apr-07	<0.5	<5	<0.5	<2	0.0016			
MW-07	08-May-07	<0.5	<5	<0.5	<2	<0.01			
MW-07	20-Jun-07	<0.25	<0.25	<0.25	<0.25	-88.8			

Appendix B

Summary of Historical Groundwater Analytical Results and Groundwater Elevations
Encana, West Divide Creek Seep
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-07	20-Jun-07	<1	<2	<2	<2	<0.0008			
MW-07	20-Jun-07	<1	<2	<2	<2	<0.0008			
MW-07	12-Sep-07	<1	<2	<2	<2	<0.0008		8.21	5950.76
MW-07	17-Dec-07	<1	<2	<2	<2	<0.0008		5.72	5953.25
MW-07	03-Mar-08	<1	<2	<2	<2	<0.0008		6.84	5952.13
MW-07	17-Jun-08	<1	<2	<2	<2	<0.0008		4.53	5954.44
MW-07	09-Dec-08	<1	<2	<2	<2	0.0032		7.60	5951.37
MW-07	16-Mar-09	<1	<2	<2	<2	<0.0008		6.95	5952.02
MW-07	15-Jun-09	<1	<2	<2	<2	<0.0008		5.72	5953.25
MW-07	16-Sep-09	<1	<2	<2	<2	0.0028		7.92	5951.05
MW-07	15-Dec-09	<1	<2	<2	<2	<0.0008		7.60	5951.37
MW-07	29-Mar-10	<1	<2	<2	<2	<0.0008		7.50	5951.47
MW-07	28-Jun-10	<1	2.7	<2	<2	<0.0008		6.09	5952.88
MW-07[a]	21-Jul-10	<1	<2	<2	<2				
MW-08	09-Jul-04	**65**	NA	NA	NA	3.4			
MW-08	22-Jul-04	**210**	NA	NA	NA	2.9		12.45	5946.84
MW-08	03-Aug-04	**250**	<2	<2	<2	2.8		11.98	5947.31
MW-08	15-Sep-04	**200**	<2	<2	<2	4.1		13.54	5945.75
MW-08	14-Oct-04	**140**	<2	<2	<3	3.1		13.18	5946.11
MW-08	10-Nov-04	**120**	<5	<0.5	NA	3.1		12.80	5946.49
MW-08	10-Nov-04	**150**	<2	<2	<2	6.5		12.80	5946.49
MW-08	10-Nov-04	**140**	<2	<2	<2	7.2		12.80	5946.49
MW-08	14-Dec-04	**140**	<2	<2	<2	7.4		12.00	5947.29
MW-08	13-Jan-05	**100**	<2	<2	<2	5.7		12.12	5947.17
MW-08	09-Feb-05	**58**	<2	<2	<2	3.5		11.79	5947.50
MW-08	08-Mar-05	**42**	<2	<2	<2	3.3		11.86	5947.43
MW-08	12-Apr-05	**30**	<2	<2	<2	3.2		8.64	5950.65
MW-08	10-May-05	4.8	<2	<2	<2	0.82		7.99	5951.30
MW-08	09-Jun-05	1.8	<2	<2	<2	0.23		6.18	5953.11
MW-08	12-Jul-05	<1	<2	<2	<2	0.12		7.92	5951.37
MW-08	12-Jul-05	**120**	<5	<0.5	NA	3.1		7.92	5951.37
MW-08	12-Jul-05	<1	<2	<2	<2	0.043		7.92	5951.37
MW-08	09-Aug-05	<1	<2	<2	<2	0.045		8.15	5951.14
MW-08	12-Sep-05	<1	<2	<2	<2	0.22		9.07	5950.22
MW-08	12-Oct-05	<0.5	<5	<0.5	NA	<0.01			
MW-08	12-Oct-05	<1	<2	<2	<2	0.25			
MW-08	12-Oct-05	<1	<2	<2	<3	0.19			
MW-08	08-Nov-05	<1	<2	<2	<4	0.11			
MW-08	08-Dec-05	<1	<2	<2	<5	0.08		8.86	5950.43
MW-08	11-Jan-06	<1	<2	<2	<6	0.13		8.99	5950.30
MW-08	14-Feb-06	<0.5	<1	<1	<1	0.206		9.02	5950.27
MW-08	15-Mar-06	<1	<2	<2	<2	0.23		8.89	5950.40
MW-08	12-Apr-06	<1	<2	<2	<2	0.11		8.34	5950.95
MW-08	11-May-06	<0.5	<0.5	<0.5	<0.5	0.0649		7.50	5951.79
MW-08	11-May-06	<1	<2	<2	<2	0.032		7.50	5951.79
MW-08	11-May-06	<1	<2	<2	<2	0.017		7.50	5951.79
MW-08	12-Jun-06	<1	<2	<2	<2	0.13			
MW-08	21-Jul-06	<1	<2	<2	<2	0.0024			
MW-08	28-Jul-06	<1	<2	<2	<2	0.14			
MW-08	04-Aug-06	<1	<2	<2	<2	0.18			
MW-08	11-Aug-06	<1	<2	<2	<2	0.1			
MW-08	16-Aug-06	<1	<2	<2	<2	0.2		25.03	5934.26
MW-08	24-Aug-06	<1	<2	<2	<2	0.34		9.89	5949.40
MW-08	31-Aug-06	<1	<2	<2	<2	0.7		10.01	5949.28
MW-08	07-Sep-06	<1	<2	<2	<2	0.47		10.11	5949.18
MW-08	13-Sep-06	<1	<2	<2	<2	0.74		10.16	5949.13
MW-08	21-Sep-06	<1	<2	<2	<2	1.1		10.11	5949.18

Appendix B

Summary of Historical Groundwater Analytical Results and Groundwater Elevations
Encana, West Divide Creek Seep
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-08	27-Sep-06	<1	<2	<2	<2	0.58		10.04	5949.25
MW-08	06-Oct-06	<1	<2	<2	<2	0.45		10.25	5949.04
MW-08	12-Oct-06	<1	<2	<2	<2	0.39		9.84	5949.45
MW-08	19-Oct-06	<1	<2	<2	<2	0.42		9.75	5949.54
MW-08	25-Oct-06	<1	<2	<2	<2	0.34		10.00	5949.29
MW-08	01-Nov-06	<1	<2	<2	<2	0.28		9.49	5949.80
MW-08	17-Nov-06	<1	<2	<2	<2	0.0043		9.32	5949.97
MW-08	05-Dec-06	<1	<2	<2	<2	0.045		9.42	5949.87
MW-08	03-Jan-07	<1	<2	<2	<2	0.00092			
MW-08	17-Jan-07	<1	<2	<2	<2	0.0034			
MW-08	05-Feb-07	<1	<2	<2	<2	0.12			
MW-08	22-Feb-07	<1	<2	<2	<2	0.22		9.12	5950.17
MW-08	07-Mar-07	<1	<2	<2	<2	0.48		9.06	5950.23
MW-08	13-Mar-07	<1	<2	<2	<2	0.18		9.11	5950.18
MW-08	26-Mar-07	<1	<2	<2	<2	<0.0008			
MW-08	11-Apr-07	<1	<2	<2	<2	0.085			
MW-08	25-Apr-07	<0.5	<5	<0.5	<2	0.0019			
MW-08	08-May-07	<0.5	<5	<0.5	<2	0.06			
MW-08	20-Jun-07	<1	<2	<2	<2	<0.0008			
MW-08	12-Sep-07	<1	<2	<2	<2	<0.0008		10.53	5948.76
MW-08	17-Dec-07	<1	<2	<2	<2	0.13		9.62	5949.67
MW-08	03-Mar-08	<1	<2	<2	<2	0.14		8.92	5950.37
MW-08	17-Jun-08	<1	<2	<2	<2	0.001		5.70	5953.59
MW-08	30-Sep-08	<1	<2	<2	<2	<0.008		10.10	5949.19
MW-08	09-Dec-08	<1	<2	<2	<2	0.11		9.00	5950.29
MW-08	16-Mar-09	<1	<2	<2	<2	0.22		9.00	5950.29
MW-08	15-Jun-09	<1	<2	<2	<2	0.015		6.99	5952.30
MW-08	16-Sep-09	<1	<2	<2	<2	<0.0008		10.05	5949.24
MW-08	15-Dec-09	<1	<2	<2	<2	0.083		9.40	5949.89
MW-08	29-Mar-10	<1	<2	<2	<2	0.0752		8.96	5950.33
MW-08	28-Jun-10	<1	<2	<2	<2	0.0192		7.62	5951.67
MW-09	09-Jul-04	**120**	NA	NA	NA	11			
MW-09	22-Jul-04	**130**	NA	NA	NA	10		4.88	5960.25
MW-09	03-Aug-04	**150**	50	2.8	21.3	9.5		4.85	5960.28
MW-09	15-Sep-04	**210**	140	6.2	59	11	9.0	4.61	5960.52
MW-09	13-Oct-04	**280**	230	9.8	96	9.9		4.15	5960.98
MW-09	09-Nov-04	**320**	170	11	104	9		4.05	5961.08
MW-09	09-Nov-04	**280**	160	9.8	100	14		4.05	5961.08
MW-09	09-Nov-04	**310**	160	10	98	10		4.05	5961.08
MW-09	13-Dec-04	**350**	130	13	127	14		4.06	5961.07
MW-09	12-Jan-05	**290**	110	12	113	16	13.3	4.18	5960.95
MW-09	09-Feb-05	**260**	48	<10	86	9.4	8.5	4.53	5960.60
MW-09	08-Mar-05	**210**	22	<10	<10	11		4.65	5960.48
MW-09	12-Apr-05	**210**	23	<2	<2	11		4.63	5960.50
MW-09	09-May-05	**210**	32	9.4	81	12	10.3	4.25	5960.88
MW-09	08-Jun-05	**210**	39	<2	<2	12		4.25	5960.88
MW-09	11-Jul-05	**160**	18	5.1	50.5	9.3	7.8	4.58	5960.55
MW-09	08-Aug-05	**120**	12	<10	<10	7.8		4.52	5960.61
MW-09	12-Sep-05	**78**	3.6	3	31.4	9.7	7.6	4.49	5960.64
MW-09	11-Oct-05	**55**	5.5	2.4	24.8	8.7		4.32	5960.81
MW-09	07-Nov-05	**35**	<2	<2	<2	7.6			
MW-09	08-Dec-05	**38**	<2	<2	<2	7.7		4.51	5960.62
MW-09	10-Jan-06	**40**	<2	<2	<2	12	9.9	4.61	5960.52
MW-09	14-Feb-06	**34.4**	<1	1.2	12.4	6.3		4.63	5960.50
MW-09	15-Mar-06	**30**	<2	<2	<2	14		5.02	5960.11
MW-09	11-Apr-06	**21**	<2	<2	<2	9		4.39	5960.74
MW-09	10-May-06	**16**	<2	<2	<2	9.8	7.8	4.28	5960.85

Appendix B

Summary of Historical Groundwater Analytical Results and Groundwater Elevations
Encana, West Divide Creek Seep
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-09	12-Jun-06	**8.6**	<2	<2	<2	10			
MW-09	06-Sep-06	**8.9**	<2	<2	<2	9.3	7.1	4.41	5960.72
MW-09	06-Dec-06	**7.2**	<2	<2	<2	10	7.6	4.08	5961.05
MW-09	13-Mar-07	**7.5**	<2	<2	<2	8.3	6.5	4.45	5960.68
MW-09	30-Apr-07	4.8	<5	<0.5	<2	-88.8			
MW-09	21-Jun-07	<1	<2	<2	<2	5.1			
MW-09	13-Sep-07	4.2	<2	<2	<2	5.4		4.49	5960.64
MW-09	18-Dec-07	2.7	<2	<2	<2	7.1		3.82	5961.31
MW-09	05-Mar-08	1	<2	<2	<2	7.2	5.0	4.05	5961.08
MW-09	17-Jun-08	2.2	<2	<2	<2	6.2	4.2	4.39	5960.74
MW-09	30-Sep-08	<1	<2	<2	<2	5.0	3.5	4.20	5960.93
MW-09	09-Dec-08	1.1	<2	<2	<2	8.6		4.46	5960.67
MW-09	17-Mar-09	2.3	<2	<2	<2	8.1	5.5	4.52	5960.61
MW-09	16-Jun-09	1.6	<2	<2	<2	7.2	5.0	4.35	5960.78
MW-09	14-Jul-09	2.5	<2	<2	<2	8.2		4.31	5960.82
MW-09	16-Sep-09	1.3	<2	<2	<2	6.6	4.4	4.38	5960.75
MW-09	15-Dec-09	2	<2	<2	<2	9.2	6.4	4.37	5960.76
MW-09	29-Mar-10	<1	<2	<2	<2	9.24	6.4	4.53	5960.60
MW-09	28-Jun-10	1.8	<2	<2	<2	6.8	4.3	4.44	5960.69
MW-11	09-Jul-04	2	NA	NA	NA	0.16			
MW-11	22-Jul-04	<1	NA	NA	NA	0.25		4.50	5965.16
MW-11	03-Aug-04	<1	<2	<2	<2	0.23		4.49	5965.17
MW-11	15-Sep-04	<1	<2	<2	<2	0.12		4.29	5965.37
MW-11	13-Oct-04	<1	<2	<2	<2	0.017		4.10	5965.56
MW-11	09-Nov-04	<1	<2	<2	<2	0.14		4.10	5965.56
MW-11	12-Jan-05	<1	<2	<2	<2	0.18		3.98	5965.68
MW-11	09-Feb-05	<1	<2	<2	<2	0.12		4.13	5965.53
MW-11	08-Mar-05	<1	<2	<2	<2	0.11		4.45	5965.21
MW-11	12-Apr-05	<1	<2	<2	<2	0.14		4.21	5965.45
MW-11	09-May-05	<1	<2	<2	<2	0.13		3.94	5965.72
MW-11	08-Jun-05	<1	<2	<2	<2	0.13		3.85	5965.81
MW-11	11-Jul-05	<1	<2	<2	<2	0.1		5.25	5964.41
MW-11	08-Aug-05	<1	<2	<2	<2	0.079		4.11	5965.55
MW-11	12-Sep-05	<1	<2	<2	<2	0.13		4.22	5965.44
MW-11	11-Oct-05	<1	<2	<2	<2	0.1		3.98	5965.68
MW-11	07-Nov-05	<1	<2	<2	<2	0.061			
MW-11	08-Dec-05	<1	<2	<2	<2	0.046		4.07	5965.59
MW-11	10-Jan-06	<1	<2	<2	<2	0.037		4.02	5965.64
MW-11	14-Feb-06	<0.5	<1	<1	<1	0.017		4.02	5965.64
MW-11	15-Mar-06	<1	<2	<2	<2	0.06		4.50	5965.16
MW-11	11-Apr-06	<1	<2	<2	<2	0.041		4.05	5965.61
MW-11	10-May-06	<1	<2	<2	<2	0.035		4.08	5965.58
MW-11	12-Jun-06	<1	<2	<2	<2	0.043			
MW-11	06-Sep-06	<1	<2	<2	<2	0.081		4.15	5965.51
MW-11	06-Dec-06	<1	<2	<2	<2	0.0039		3.98	5965.68
MW-11	13-Mar-07	<1	<2	<2	<2	0.02		3.89	5965.77
MW-11	21-Jun-07	<1	<2	<2	<2	0.018			
MW-11	12-Sep-07	<1	<2	<2	<2	0.028		4.30	5965.36
MW-11	05-Mar-08	<1	<2	<2	<2	0.027		4.09	5965.57
MW-11	17-Jun-08	<1	<2	<2	<2	0.012		4.03	5965.63
MW-11	30-Sep-08	<1	<2	<2	<2	0.0017		4.10	5965.56
MW-11	09-Dec-08	<1	<2	<2	<2	0.016		4.20	5965.46
MW-11	17-Mar-09	<1	<2	<2	<2	0.0073		4.65	5965.01
MW-11	15-Jun-09	<1	<2	<2	<2	0.037		4.51	5965.15
MW-11	17-Sep-09	<1	<2	<2	<2	0.16		4.48	5965.18
MW-11	15-Dec-09	<1	<2	<2	<2	0.019		4.23	5965.43
MW-11	29-Mar-10	<1	<2	<2	<2	0.0698		4.25	5965.41

Appendix B

Summary of Historical Groundwater Analytical Results and Groundwater Elevations
Encana, West Divide Creek Seep
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-11	28-Jun-10	<1	2.3	<2	2.7	0.0615		4.80	5964.86
MW-11[a]	21-Jul-10	<1	<2	<2	<2				
MW-12	09-Jul-04	0.86	NA	NA	NA	2.5			5963.60
MW-12	22-Jul-04	2	NA	NA	NA	3.6		6.02	5957.58
MW-12	03-Aug-04	4.6	<2	<2	<2	3.8			
MW-12	15-Sep-04	2.7	<2	<2	<2	4.9	4.1	5.81	5957.79
MW-12	13-Oct-04	<1	<2	<2	<2	0.17		5.13	5958.47
MW-12	13-Oct-04	<1	<2	<2	NA	0.12		5.13	5958.47
MW-12	13-Oct-04	<1	<2	<2	<2	<0.0008		5.13	5958.47
MW-12	09-Nov-04	<1	<2	<2	<2	0.069		4.90	5958.70
MW-12	13-Dec-04	<1	<2	<2	<2	0.046		3.85	5959.75
MW-12	12-Jan-05	<1	<2	<2	<2	1.3	0.8	4.10	5959.50
MW-12	09-Feb-05	<1	<2	<2	<2	2	1.2	4.78	5958.82
MW-12	08-Mar-05	<1	<2	<2	<2	2.6		4.53	5959.07
MW-12	12-Apr-05	<1	<2	<2	<2	0.94		4.63	5958.97
MW-12	09-May-05	<1	<2	<2	<2	0.43	0.4	4.03	5959.57
MW-12	08-Jun-05	<1	<2	<2	<2	0.65		4.39	5959.21
MW-12	11-Jul-05	3.8	<2	<2	<2	3	2.7	2.86	5960.74
MW-12	08-Aug-05	**7.1**	<2	<2	<2	4.3		3.02	5960.58
MW-12	12-Sep-05	**8.4**	<2	<2	<2	6.4	5.1	2.82	5960.78
MW-12	11-Oct-05	<1	<2	<2	<2	0.26		1.94	5961.66
MW-12	07-Nov-05	<1	<2	<2	<2	0.11			
MW-12	08-Dec-05	<1	<2	<2	<2	0.25		1.81	5961.79
MW-12	10-Jan-06	<1	<2	<2	<2	0.24	0.2	1.89	5961.71
MW-12	14-Feb-06	0.6	<1	<1	<1	0.53		2.03	5961.57
MW-12	15-Mar-06	<1	<2	<2	<2	1.6		1.85	5961.75
MW-12	15-Mar-06	<0.5	<0.5	<0.5	<0.5	1.51		1.85	5961.75
MW-12	11-Apr-06	<1	<2	<2	<2	1.2		4.10	5959.50
MW-12	10-May-06	<1	<2	<2	<2	0.95	0.5	1.25	5962.35
MW-12	12-Jun-06	1.2	<2	<2	<2	2.1			
MW-12	06-Sep-06	**5.3**	<2	<2	<2	7.1	4.1	3.31	5960.29
MW-12	06-Dec-06	<1	<2	<2	<2	0.21	0.2	1.52	5962.08
MW-12	13-Mar-07	<1	<2	<2	<2	0.046	0.0	0.00	5963.60
MW-12	21-Jun-07	<1	<2	<2	<2	0.016			
MW-12	12-Sep-07	**5.4**	<2	<2	<2	3.7	2.8	3.08	5960.52
MW-12	18-Dec-07	<1	<2	<2	<2	0.18		1.92	5961.68
MW-12	05-Mar-08	<1	<2	<2	<2	<0.0008		0.00	5963.60
MW-12	17-Jun-08	<1	<2	<2	<2	0.0011	<0.0011	2.36	5961.24
MW-12	30-Sep-08	2.4	<2	<2	<2	2.8	1.5	3.30	5960.30
MW-12	09-Dec-08	<1	<2	<2	<2	0.13	<0.0008	2.10	5961.50
MW-12	17-Mar-09	<1	<2	<2	<2	0.13	0.04	1.95	5961.65
MW-12	15-Jun-09	<1	<2	<2	<2	0.25	0.02	2.21	5961.39
MW-12	16-Sep-09	1	<2	<2	<2	3.7		2.67	5960.93
MW-12	15-Dec-09	<1	<2	<2	<2	0.07		1.76	5961.84
MW-12	29-Mar-10	<1	<2	<2	<2	0.176		1.94	5961.66
MW-12	28-Jun-10	<1	<2	<2	<2	0.672		2.97	5960.63
MW-13	13-Dec-04	<1	<2	<2	<2	0.15		2.49	5961.11
MW-13	21-Sep-04	<1	<2	<2	<2	0.061			
MW-13	13-Oct-04	<1	<2	<2	<2	0.011		2.89	5969.11
MW-13	09-Nov-04	<1	<2	<2	<2	0.015		2.80	5969.20
MW-13	13-Dec-04	<1	<2	<2	<2	0.029		2.49	5969.51
MW-13	12-Jan-05	<1	<2	<2	<2	0.069		2.24	5969.76
MW-13	09-Feb-05	<1	<2	<2	<2	0.029		2.79	5969.21
MW-13	08-Mar-05	<1	<2	<2	<2	0.037		2.81	5969.19
MW-13	12-Apr-05	<1	<2	<2	<2	0.039		3.12	5968.88
MW-13	09-May-05	<1	<2	<2	<2	0.04		2.42	5969.58

Appendix B

Summary of Historical Groundwater Analytical Results and Groundwater Elevations
Encana, West Divide Creek Seep
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-13	08-Jun-05	<1	<2	<2	<2	0.071		2.41	5969.59
MW-13	12-Jun-06	<1	<2	<2	<2	2.8			
MW-13	07-Sep-06	<1	<5	<2	<2	1.4		1.40	5970.60
MW-13	06-Dec-06	<1	<2	<2	<2	0.32		0.58	5971.42
MW-13	13-Mar-07	<1	<2	<2	<2	0.014		0.00	
MW-13	21-Jun-07	<1	<2	<2	<2	0.33			
MW-13	12-Sep-07	<1	<2	<2	<2	0.43		1.05	5970.95
MW-13	17-Jun-08								floooded
MW-13	29-Sep-08							2.65	
MW-13	08-Dec-08								frozen
MW-13	16-Mar-09								flooded
MW-13	15-Jun-09								plugged
MW-13	16-Sep-09								plugged
MW-13	15-Dec-09								plugged
MW-13									plugged
MW-14	21-Sep-04	**150**	9.6	2.9	19.8	1.4			
MW-14	13-Oct-04	**140**	12	3.6	27.3	4.8	4.3	6.57	5958.49
MW-14	09-Nov-04	**150**	8.8	4.7	32.4	6.7		7.02	5958.04
MW-14	13-Dec-04	**300**	12	7.5	44.2	13		7.01	5958.05
MW-14	12-Jan-05	**230**	9.7	4.6	30.7	9.4	8.0	6.98	5958.08
MW-14	09-Feb-05	**270**	13	<10	<10	9.6	8.0	7.24	5957.82
MW-14	08-Mar-05	**180**	12	3.1	21.5	12		8.05	5957.01
MW-14	12-Apr-05	**74**	5.2	<2	<2	11		6.97	5958.09
MW-14	09-May-05	**8**	<2	<2	<2	8.2	6.6	6.19	5958.87
MW-14	08-Jun-05	**6**	<2	<2	<2	10		6.38	5958.68
MW-14	11-Jul-05	**16**	<2	<2	<2	4.8	3.8	4.15	5960.91
MW-14	08-Aug-05	<1	<2	<2	<2	3.6		4.25	5960.81
MW-14	12-Sep-05	<1	<2	<2	<2	3.6	2.3	4.25	5960.81
MW-14	11-Oct-05	<1	<2	<2	<2	4.2		4.17	5960.89
MW-14	07-Nov-05	<1	<2	<2	<2	3.9			
MW-14	08-Dec-05	1.6	<2	<2	<2	3.9		4.59	5960.47
MW-14	10-Jan-06	<1	<2	<2	<2	7.4	5.6	4.71	5960.35
MW-14	14-Feb-06	1.9	<1	<1	<1	8.3		4.71	5960.35
MW-14	15-Mar-06	<1	<2	<2	<2	5.8		4.71	5960.35
MW-14	11-Apr-06	<1	<2	<2	<2	1.2		4.55	5960.51
MW-14	10-May-06	<1	<2	<2	<2	2.9	1.9	4.28	5960.78
MW-14	12-Jun-06	<1	<2	<2	<2	7			
MW-14	06-Sep-06	<1	<2	<2	<2	9	6.0	4.22	5960.84
MW-14	06-Dec-06	**12**	<2	<2	<2	9.1	6.4	4.18	5960.88
MW-14	13-Mar-07	<1	<2	<2	<2	7.6	5.3	4.45	5960.61
MW-14	30-Apr-07	<1	<5	<0.5	<2	-88.8			
MW-14	21-Jun-07	<1	<2	<2	<2	3.4			
MW-14	13-Sep-07	<1	<2	<2	<2	2.8		5.04	5960.02
MW-14	18-Dec-07	1.2	<2	<2	<2	3.2		4.75	5960.31
MW-14	05-Mar-08	<1	<2	<2	<2	5.1	3.1	4.98	5960.08
MW-14	17-Jun-08	<1	<2	<2	<2	3.7	2.1	4.95	5960.11
MW-14	30-Sep-08	<1	<2	<2	<2	2.9	2.0	5.51	5959.55
MW-14	09-Dec-08	<1	<2	<2	<2	4.7	2.9	5.20	5959.86
MW-14	17-Mar-09	1.0	<2	<2	<2	7.0	4.6	5.29	5959.77
MW-14	16-Jun-09	<1	<2	<2	<2	5.6	3.9	5.05	5960.01
MW-14	16-Sep-09	1.9	<2	<2	<2	5.7	3.7	5.10	5959.96
MW-14	15-Dec-09	1.9	<2	<2	<2	5.7	3.4	5.03	5960.03
MW-14	29-Mar-10	<1	<2	<2	<2	6.74	4.4	6.25	5958.81
MW-14	28-Jun-10	<1	<2	<2	<2	4.79	3.1	5.44	5959.62
MW-15	21-Sep-04	<1	<2	<2	<2	0.37			
MW-15	14-Oct-04	<1	<2	<2	<2	0.047		2.80	5954.99

Appendix B

Summary of Historical Groundwater Analytical Results and Groundwater Elevations
Encana, West Divide Creek Seep
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-15	10-Nov-04	<1	<2	<2	<2	0.034		2.85	5954.94
MW-15	14-Dec-04	<1	<2	<2	<2	0.017		2.54	5955.25
MW-15	12-Jan-05	<1	<2	<2	<2	0.012		2.50	5955.29
MW-15	08-Mar-05	<1	<2	<2	<2	0.0071		3.62	5954.17
MW-15	12-Apr-05	<1	<2	<2	<2	0.021		2.82	5954.97
MW-15	11-May-05	<1	<2	<2	<2	0.031		2.47	5955.32
MW-15	08-Jun-05	<1	<2	<2	<2	0.059		2.36	5955.43
MW-15	12-Jul-05	<1	<2	<2	<2	0.0055		0.17	5957.62
MW-15	09-Aug-05	<1	<2	<2	<2	0.0069		0.42	5957.37
MW-15	12-Sep-05	<1	<2	<2	<2	0.007		0.36	5957.43
MW-15	11-Oct-05	<1	<2	<2	<2	0.058		0.42	5957.37
MW-15	08-Nov-05	<1	<2	<2	<2	0.025		0.44	5957.35
MW-15	08-Dec-05	<1	<2	<2	<2	0.038		0.56	5957.23
MW-15	11-Jan-06	<1	<2	<2	<2	0.044		0.68	5957.11
MW-15	15-Feb-06	<1	<2	<2	<2	0.026		0.58	5957.21
MW-15	15-Mar-06	<1	<2	<2	<2	0.027		0.40	5957.39
MW-15	11-Apr-06	<1	<2	<2	<2	0.012		0.50	5957.29
MW-15	10-May-06	<1	<2	<2	<2	0.01		0.51	5957.28
MW-15	12-Jun-06	<1	<2	<2	<2	0.01			
MW-15	06-Sep-06	<1	<2	<2	<2	0.036		0.00	5957.79
MW-15	06-Dec-06	<1	<2	<2	<2	0.015		0.00	5957.79
MW-15	13-Mar-07	<1	<2	<2	<2	0.012		0.10	5957.69
MW-15	21-Jun-07	<1	<2	<2	<2	0.015			
MW-15	11-Sep-07	<1	<2	<2	<2	<0.0008		0.00	5957.79
MW-15	18-Dec-07	<1	<2	<2	<2	0.0018		0.05	5957.74
MW-15	17-Jun-08	<1	<2	<2	<2	0.0072		2.12	5955.67
MW-15	29-Sep-08								Flooded
MW-15	08-Dec-08								Frozen
MW-15	16-Mar-09								Frozen
MW-15	15-Jun-09								Flooded
MW-15	16-Sep-09								Flooded
MW-15	15-Dec-09								Flooded
MW-15	30-Mar-10	<1	<2	<2	<2	<0.0008		0.60	5957.19
MW-15	29-Jun-10	<1	<2	<2	<2	<0.0008		0.01	5957.78
MW-16	21-Sep-04	**9.5**	<2	<2	<2	1.1			
MW-16	13-Oct-04	4.7	<2	<2	<2	0.85		7.79	5952.66
MW-16	09-Nov-04	2.7	<2	<2	<2	0.34		7.29	5953.16
MW-16	14-Dec-04	4.9	<2	<2	<2	0.8		6.92	5953.53
MW-16	12-Jan-05	**7.6**	<2	<2	<2	1.1		7.20	5953.25
MW-16	09-Feb-05	**6.2**	<2	<2	<2	0.72	0.5	6.96	5953.49
MW-16	08-Mar-05	**6.1**	<2	<2	<2	0.83		7.27	5953.18
MW-16	08-Mar-05	**6.3**	<2	<2	<2	0.66		7.27	5953.18
MW-16	08-Mar-05	**6.2**	<5	<0.5	NA	1.7		7.27	5953.18
MW-16	12-Apr-05	1.4	<2	<2	<2	0.57		7.39	5953.06
MW-16	09-May-05	1.9	<2	<2	<2	0.35		5.81	5954.64
MW-16	08-Jun-05	1.7	<2	<2	<2	0.37		4.20	5956.25
MW-16	12-Jul-05	4	<2	<2	<2	0.62		2.65	5957.80
MW-16	09-Aug-05	**12**	<2	<2	<2	1.1		4.83	5955.62
MW-16	12-Sep-05	**6.4**	<2	<2	<2	1.3		5.45	5955.00
MW-16	11-Oct-05	2.8	<2	<2	<2	0.91			
MW-16	08-Nov-05	4.1	<2	<2	<2	0.62			
MW-16	07-Dec-05	3.4	<2	<2	<2	0.67		4.73	5955.72
MW-16	11-Jan-06	2.1	<2	<2	<2	1.1		5.21	5955.24
MW-16	14-Feb-06	<0.5	<1	<1	<1	0.58		5.25	5955.20
MW-16	15-Mar-06	<1	<2	<2	<2	0.78		5.38	5955.07
MW-16	12-Apr-06	<1	<2	<2	<2	0.59		4.77	5955.68
MW-16	09-May-06	<1	<2	<2	<2	0.2		3.43	5957.02

Appendix B

Summary of Historical Groundwater Analytical Results and Groundwater Elevations
Encana, West Divide Creek Seep
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-16	12-Jun-06	<1	<2	<2	<2	0.042			
MW-16	07-Sep-06	3.7	<5	<2	<2	1.7		6.41	5954.04
MW-16	05-Dec-06	<1	<2	<2	<2	1.1		5.21	5955.24
MW-16	13-Mar-07	<1	<2	<2	<2	0.54	0.1	5.50	5954.95
MW-16	20-Jun-07	<1	<2	<2	<2	0.17			
MW-16	12-Sep-07	<1	<2	<2	<2	0.8	0.3	6.45	5954.00
MW-16	18-Dec-07	<1	<2	<2	<2	1.2		8.50	5951.95
MW-16	04-Mar-08	<1	<2	<2	<2	1.2		5.60	5954.85
MW-16	17-Jun-08	<1	<2	<2	<2	0.021	<0.021	2.69	5957.76
MW-16	30-Sep-08	<1	<2	<2	<2	1.3	0.4	6.70	5953.75
MW-16	09-Dec-08	<1	<2	<2	<2	1.2	0.1	5.20	5955.25
MW-16	16-Mar-09	<1	<2	<2	<2	1.4	0.03	5.86	5954.59
MW-16	15-Jun-09	<1	<2	<2	<2	0.076	0.001	2.58	5957.87
MW-16	16-Sep-09	<1	<2	<2	<2	1.8		6.39	5954.06
MW-16	16-Sep-09	<1	<2	<2	<2	1.5		6.39	5954.06
MW-16	15-Dec-09	<1	<2	<2	<2	0.76		5.90	5954.55
MW-16	15-Dec-09	<1	<2	<2	<2	0.75		5.90	5954.55
MW-16	30-Mar-10	<1	<2	<2	<2	0.636		5.05	5955.40
MW-16	30-Mar-10	<1	<2	<2	<2	0.527		5.05	5955.40
MW-16	28-Jun-10	<1	<2	<2	<2	0.0889		3.03	5957.42
MW-16[a]	21-Jul-10	<1	<2	<2	<2				
MW-16	28-Jun-10	<1	2.4	<2	<2	0.0135		3.03	5957.42
MW-16[a]	21-Jul-10	<1	<2	<2	<2				
MW-17	21-Sep-04	<1	<2	<2	46.6	8.3			
MW-17	13-Oct-04	**230**	110	4.1	39.8	7.5	6.2	10.48	5948.01
MW-17	09-Nov-04	**140**	7.2	3	20.7	7.6		9.60	5948.89
MW-17	14-Dec-04	**110**	<2	2.1	16.1	9.4		8.76	5949.73
MW-17	12-Jan-05	**56**	<2	<2	<2	7.1	5.1	8.84	5949.65
MW-17	09-Feb-05	**76**	<2	<2	<2	6.6	4.9	8.69	5949.80
MW-17	08-Mar-05	**63**	<2	<2	<2	6.8		8.84	5949.65
MW-17	12-Apr-05	**44**	<2	<2	<2	6.6		6.19	5952.30
MW-17	10-May-05	**16**	<2	<2	<2	1.9	1.0	4.90	5953.59
MW-17	08-Jun-05	1.4	<2	<2	<2	1.6		2.43	5956.06
MW-17	12-Jul-05	<1	<2	<2	<2	0.64		3.28	5955.21
MW-17	09-Aug-05	**19**	<2	<2	<2	2.7		5.53	5952.96
MW-17	12-Sep-05	**110**	3.6	<2	<2	5.3	3.3	7.02	5951.47
MW-17	11-Oct-05	**72**	<2	<2	<2	4.7			
MW-17	08-Nov-05	**31**	<2	<2	<2	3.2			
MW-17	07-Dec-05	**31**	<2	<2	<2	3.1		6.58	5951.91
MW-17	11-Jan-06	**30**	<2	<2	<2	3.2	1.8	6.88	5951.61
MW-17	14-Feb-06	**26**	<1	<1	<1	2.5		6.88	5951.61
MW-17	15-Mar-06	**19**	<2	<2	<2	3.5		6.55	5951.94
MW-17	12-Apr-06	**12**	<2	<2	<2	3		5.85	5952.64
MW-17	09-May-06	2.8	<2	<2	<2	1.4		4.20	5954.29
MW-17	12-Jun-06	<1	<2	<2	<2	2.6			
MW-17	07-Sep-06	**24**	<5	<2	<2	3.5	2.2	8.27	5950.22
MW-17	05-Dec-06	**23**	<2	<2	<2	2.2	1.2	7.31	5951.18
MW-17	13-Mar-07	**66**	<2	<2	<2	5.6	0.6	6.65	5951.84
MW-17	20-Jun-07	<1	<2	<2	<2	<0.0008			
MW-17	12-Sep-07	**30**	<2	<2	<2	2	1.2	9.68	5948.81
MW-17	18-Dec-07	**16**	<2	<2	<2	2		7.59	5950.90
MW-17	03-Mar-08	**6.7**	<2	<2	<2	1	0.5	6.90	5951.59
MW-17	17-Jun-08	<1	<2	<2	<2	<0.0008	<0.0008	2.66	5955.83
MW-17	30-Sep-08	**31**	<2	<2	<2	1.9	1.1	8.20	5950.29
MW-17	09-Dec-08	**21**	<2	<2	<2	1.9	1.0	6.75	5951.74
MW-17	16-Mar-09	**13**	<2	<2	<2	2.2	1.0	6.71	5951.78
MW-17	15-Jun-09	<1	<2	<2	<2	0.0027	<0.0008	3.25	5955.24

Appendix B

Summary of Historical Groundwater Analytical Results and Groundwater Elevations
Encana, West Divide Creek Seep
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-17	16-Sep-09	**41**	<2	<2	<2	4.2	2.3	8.10	5950.39
MW-17	15-Dec-09	**25**	<2	<2	<2	3.2	1.5	8.40	5950.09
MW-17	29-Mar-10	**24.6**	<2	<2	<2	3.25	1.6	6.52	5951.97
MW-17	28-Jun-10	<1	<2	<2	<2	0.0107	0.0008	4.05	5954.44
MW-17[a]	21-Jul-10	**13.0**	<2	<2	<2				
MW-18	21-Sep-04	<1	<2	<2	<2	0.74			
MW-18	14-Oct-04	<1	<2	<2	<2	0.89	0.3	6.75	5945.68
MW-18	10-Nov-04	<1	<2	<2	<2	1.6		6.80	5945.63
MW-18	14-Dec-04	<1	<2	<2	<2	1.1		6.63	5945.80
MW-18	13-Jan-05	<1	<2	<2	<2	1.1	0.4		
MW-18	09-Feb-05	<1	<2	<2	<2	0.71	0.2	6.77	5945.66
MW-18	09-Mar-05	<1	<2	<2	<2	0.69		6.81	5945.62
MW-18	13-Apr-05	<1	<2	<2	<2	0.71		6.98	5945.45
MW-18	10-May-05	<1	<2	<2	<2	0.19	0.1	6.11	5946.32
MW-18	09-Jun-05	<1	<2	<2	<2	0.058		3.55	5948.88
MW-18	12-Jul-05	<1	<2	<2	<2	0.02			
MW-18	09-Aug-05	<1	<2	<2	<2	0.66		4.26	5948.17
MW-18	13-Sep-05	<1	<2	<2	<2	0.3	0.1	4.35	5948.08
MW-18	12-Oct-05	<1	<2	<2	<2	1.1			
MW-18	09-Nov-05	<1	<2	<2	<2	1.1		4.06	5948.37
MW-18	08-Dec-05	<1	<2	<2	<2	0.76		3.93	5948.50
MW-18	08-Dec-05	<1	<2	<2	<2	0.68		3.93	5948.50
MW-18	08-Dec-05	<0.5	<5	<0.5	NA	0.8		3.93	5948.50
MW-18	11-Jan-06	<1	<2	<2	<2	0.6	0.2	3.72	5948.71
MW-18	15-Feb-06	<1	<2	<2	<2	1.2		4.12	5948.31
MW-18	15-Mar-06	<1	<2	<2	<2	1.5		3.94	5948.49
MW-18	12-Apr-06	<1	<2	<2	<2	0.46		3.30	5949.13
MW-18	11-May-06	<1	<2	<2	<2	0.25	0.1	3.33	5949.10
MW-18	13-Jun-06	<0.5	<0.5	<0.5	<0.5	1.46			
MW-18	13-Jun-06	<1	<2	<2	<2	1.4			
MW-18	06-Sep-06	<1	<2	<2	<2	0.99	0.4	4.58	5947.85
MW-18	05-Dec-06	<1	<2	<2	<2	0.0057	0.0	4.02	5948.41
MW-18	13-Mar-07	<1	<2	<2	<2	0.0034	0.0	3.10	5949.33
MW-18	22-Jun-07	<1	<2	<2	<2	0.026			
MW-18	11-Sep-07	<1	<2	<2	<2	<0.0008		3.85	5948.58
MW-18	18-Dec-07	<1	<2	<2	<2	<0.0008		3.35	5949.08
MW-18	04-Mar-08	<1	<2	<2	<2	<0.0008		3.15	5949.28
MW-18	17-Jun-08	<1	<2	<2	<2	0.15		3.78	5948.65
MW-18	30-Sep-08	<1	<2	<2	<2	<0.0008		4.50	5947.93
MW-18	08-Dec-08	<1	<2	<2	<2	0.034		3.40	5949.03
MW-18	16-Mar-09	<1	<2	<2	<2	<0.0008		3.75	5948.68
MW-18	15-Jun-09	<1	<2	<2	<2	0.81		3.91	5948.52
MW-18	16-Sep-09	<1	<2	<2	<2	<0.0008		4.50	5947.93
MW-18	15-Dec-09	<1	<2	<2	<2	0.042		4.10	5948.33
MW-18	29-Mar-10	<1	<2	<2	<2	0.0444		3.90	5948.53
MW-18	29-Jun-10	<1	<2	<2	<2	0.264		4.01	5948.42
MW-19	21-Sep-04	<1	2.4	<2	<2	1.6			
MW-19	13-Oct-04	<1	7.8	<2	<2	0.34		2.94	5966.50
MW-19	09-Nov-04	<1	10	<2	<2	4		4.20	5965.24
MW-19	13-Dec-04	<1	14	<2	<2	3.9		3.42	5966.02
MW-19	12-Jan-05	<1	9	<2	<2	2.6		3.32	5966.12
MW-19	08-Mar-05	<1	13	<2	<2	3.7		4.77	5964.67
MW-19	12-Apr-05	<1	<2	<2	<2	2.2		3.67	5965.77
MW-19	09-May-05	<1	9	<2	<2	1		3.37	5966.07
MW-19	08-Jun-05	<1	<2	<2	<2	2		2.71	5966.73
MW-19	11-Jul-05	<1	2.7	<2	<2	1.2		4.51	5964.93

Appendix B

Summary of Historical Groundwater Analytical Results and Groundwater Elevations
Encana, West Divide Creek Seep
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-19	08-Aug-05	<1	5.7	<2	<2	1.7		2.83	5966.61
MW-19	12-Sep-05	<1	2.7	<2	<2	2.1		2.78	5966.66
MW-19	11-Oct-05	<1	3.1	<2	<2	2.2		2.63	5966.81
MW-19	07-Nov-05	<1	<2	<2	<2	2			
MW-19	11-Apr-06	<1	<2	<2	<2	0.95		4.05	5965.39
MW-19	10-May-06	<1	4.5	<2	<2	1.1		3.18	5966.26
MW-19	12-Jun-06	<1	<2	<2	<2	1.3			5969.44
MW-19	17-Jun-08								Flooded
MW-19	29-Sep-08								Lost
MW-19	08-Dec-08								Frozen
MW-19	16-Mar-09								Lost
MW-19	15-Jun-09								Flooded
MW-19	16-Sep-09								Flooded
MW-19	15-Dec-09								Flooded
MW-19									PLUGGED
MW-20	02-Sep-04	<1	<2	<2	<2	0.89			
MW-20	14-Oct-04	<1	<2	<2	<2	0.36		11.90	5941.98
MW-20	10-Nov-04	<1	<2	<2	<2	0.048		11.75	5942.13
MW-20	14-Dec-04	<1	<2	<2	<2	0.0078		11.12	5942.76
MW-20	13-Jan-05	<1	<2	<2	<2	0.0039			
MW-20	09-Feb-05	<1	<2	<2	<2	0.00092		10.54	5943.34
MW-20	09-Mar-05	<1	<2	<2	<2	0.0008		10.33	5943.55
MW-20	13-Apr-05	<1	<2	<2	<2	0.0011		10.23	5943.65
MW-20	10-May-05	<1	<2	<2	<2	0.002		9.83	5944.05
MW-20	09-Jun-05	<1	<2	<2	<2	0.0092		7.12	5946.76
MW-20	12-Jul-05	<1	<2	<2	<2	0.053			
MW-20	09-Aug-05	<1	<2	<2	<2	0.017		1.48	5952.40
MW-20	13-Sep-05	<1	<2	<2	<2	0.002		9.28	5944.60
MW-20	12-Oct-05	<1	<2	<2	<2	<0.0008		9.11	5944.77
MW-20	08-Nov-05	<1	<2	<2	<2	0.00084			
MW-20	08-Dec-05	<1	<2	<2	<2	<0.0008		8.27	5945.61
MW-20	11-Jan-06	<1	<2	<2	<2	<0.0008		8.06	5945.82
MW-20	15-Feb-06	<1	<2	<2	<2	<0.0008		7.96	5945.92
MW-20	15-Mar-06	<1	<2	<2	<2	<0.0008		7.73	5946.15
MW-20	11-Apr-06	<1	<2	<2	<2	<0.0008		7.35	5946.53
MW-20	11-May-06	<1	<2	<2	<2	0.00086		7.01	5946.87
MW-20	13-Jun-06	<1	<2	<2	<2	0.00855			
MW-20	21-Jul-06	<1	<2	<2	<2	<0.0008			
MW-20	28-Jul-06	<1	<2	<2	<2	0.0011			
MW-20	04-Aug-06	<1	<2	<2	<2	<0.0008			
MW-20	11-Aug-06	<1	<2	<2	<2	<0.0008			
MW-20	16-Aug-06	<1	<2	<2	<2	0.0033			
MW-20	24-Aug-06	<1	<2	<2	<2	0.0022		9.71	5944.17
MW-20	31-Aug-06	<1	<2	<2	<2	0.0011		9.85	5944.03
MW-20	06-Sep-06	<1	<2	<2	<2	0.011		10.00	5943.88
MW-20	13-Sep-06	<1	<2	<2	<2	<0.0008		10.04	5943.84
MW-20	21-Sep-06	<1	<2	<2	<2	0.0015		9.96	5943.92
MW-20	27-Sep-06	<1	<2	<2	<2	0.00096		9.82	5944.06
MW-20	06-Oct-06	<1	<2	<2	<2	<0.0008		9.88	5944.00
MW-20	12-Oct-06	<1	<2	<2	<2	<0.0008		9.54	5944.34
MW-20	19-Oct-06	<1	<2	<2	<2	<0.0008		9.43	5944.45
MW-20	25-Oct-06	<1	<2	<2	<2	<0.0008		9.64	5944.24
MW-20	01-Nov-06	<1	<2	<2	<2	<0.0008		9.25	5944.63
MW-20	17-Nov-06	<1	<2	<2	<2	<0.0008		9.03	5944.85
MW-20	06-Dec-06	<1	<2	<2	<2	<0.0008		7.92	5945.96
MW-20	03-Jan-07	<1	<2	<2	<2	<0.0008			
MW-20	17-Jan-07	<1	<2	<2	<2	<0.0008			

Appendix B

Summary of Historical Groundwater Analytical Results and Groundwater Elevations
Encana, West Divide Creek Seep
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-20	05-Feb-07	<1	<2	<2	<2	<0.0008			
MW-20	22-Feb-07	<1	<2	<2	<2	<0.0008		8.32	5945.56
MW-20	07-Mar-07	<1	<2	<2	<2	<0.0008		8.19	5945.69
MW-20	13-Mar-07	<1	<2	<2	<2	<0.0008		8.20	5945.68
MW-20	26-Mar-07	<1	<2	<2	<2	0.0012			
MW-20	11-Apr-07	<1	<2	<2	<2	<0.0008			
MW-20	25-Apr-07	<0.5	<5	<0.5	<2	<0.01			
MW-20	08-May-07	<0.5	<5	<0.5	<2	<0.01			
MW-20	22-Jun-07	<1	<2	<2	<2	0.0012			
MW-20	11-Sep-07	<1	<2	<2	<2	<0.0008		10.15	5943.73
MW-20	18-Dec-07	<1	<2	<2	<2	<0.0008		8.25	5945.63
MW-20	04-Mar-08	<1	<2	<2	<2	<0.0008		7.69	5946.19
MW-20	17-Jun-08	<1	<2	<2	<2	<0.0008		6.23	5947.65
MW-20	30-Sep-08	<1	<2	<2	<2	0.0035		9.75	5944.13
MW-20	08-Dec-08	<1	<2	<2	<2	0.0011		8.61	5945.27
MW-20	16-Mar-09	<1	<2	<2	<2	<0.0008		7.85	5946.03
MW-20	15-Jun-09	<1	<2	<2	<2	0.00089		6.98	5946.90
MW-20	16-Sep-09	<1	<2	<2	<2	<0.0008		9.96	5943.92
MW-20	15-Dec-09	<1	<2	<2	<2	<0.0008		9.00	5944.88
MW-20	29-Mar-10	<1	<2	<2	<2	<0.0008		8.31	5945.57
MW-20	29-Jun-10	<1	<2	<2	<2	0.00369		8.64	5945.24
MW-21	02-Sep-04	<1	<2	<2	<2	0.0087			
MW-21	14-Oct-04	<1	<2	<2	<2	0.0049		25.20	5944.25
MW-21	10-Nov-04	<1	<2	<2	<2	0.0011		24.80	5944.65
MW-21	14-Dec-04	<1	<2	<2	<2	0.0016		23.54	5945.91
MW-21	13-Jan-05	<1	<2	<2	<2	<0.0009			
MW-21	09-Feb-05	<1	<2	<2	<2	0.00086		23.68	5945.77
MW-21	09-Mar-05	<1	<2	<2	<2	<0.0008		23.56	5945.89
MW-21	13-Apr-05	<1	<2	<2	<2	<0.0008		23.33	5946.12
MW-21	10-May-05	<1	<2	<2	<2	<0.0008		22.79	5946.66
MW-21	09-Jun-05	<1	<2	<2	<2	0.0019		21.93	5947.52
MW-21	13-Jul-05	<1	<2	<2	<2	0.0028		22.24	5947.21
MW-21	09-Aug-05	<1	<2	<2	<2	0.0011		23.42	5946.03
MW-21	13-Sep-05	<1	<2	<2	<2	0.0011		24.43	5945.02
MW-21	12-Oct-05	<1	<2	<2	<2	0.0015		24.34	5945.11
MW-21	08-Nov-05	<1	<2	<2	<2	0.0013		23.89	5945.56
MW-21	08-Dec-05	<1	<2	<2	<2	0.00092		23.52	5945.93
MW-21	12-Jan-06	<1	<2	<2	<2	0.0013		23.37	5946.08
MW-21	15-Feb-06	<1	<2	<2	<2	0.0013		23.22	5946.23
MW-21	15-Mar-06	<1	<2	<2	<2	0.01		20.33	5949.12
MW-21	11-Apr-06	<1	<2	<2	<2	0.0022		22.48	5946.97
MW-21	11-May-06	<1	<2	<2	<2	0.0017		22.00	5947.45
MW-21	13-Jun-06	<1	<2	<2	<2	0.0032			
MW-21	21-Jul-06	<1	<2	<2	<2	0.0016			
MW-21	28-Jul-06	<1	<2	<2	<2	0.0019			
MW-21	04-Aug-06	<1	<2	<2	<2	0.001			
MW-21	11-Aug-06	<1	<2	<2	<2	0.0011			
MW-21	16-Aug-06	<1	<2	<2	<2	0.0023			
MW-21	24-Aug-06	<1	<2	<2	<2	0.0026		24.79	5944.66
MW-21	31-Aug-06	<1	<2	<2	<2	0.0036		24.87	5944.58
MW-21	06-Sep-06	<1	<2	<2	<2	0.0057		24.95	5944.50
MW-21	13-Sep-06	<1	<2	<2	<2	0.0031		25.31	5944.14
MW-21	21-Sep-06	<1	<2	<2	<2	0.0036		25.31	5944.14
MW-21	27-Sep-06	<1	<2	<2	<2	0.0039		25.08	5944.37
MW-21	06-Oct-06	<1	<2	<2	<2	0.0019		25.21	5944.24
MW-21	12-Oct-06	<1	<2	<2	<2	<0.0008		24.85	5944.60
MW-21	19-Oct-06	<1	<2	<2	<2	<0.0008		24.75	5944.70

Appendix B

Summary of Historical Groundwater Analytical Results and Groundwater Elevations
Encana, West Divide Creek Seep
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-21	25-Oct-06	<1	<2	<2	<2	<0.0008		24.68	5944.77
MW-21	01-Nov-06	<1	<2	<2	<2	<0.0008		24.53	5944.92
MW-21	17-Nov-06	<1	<2	<2	<2	<0.0008		24.61	5944.84
MW-21	06-Dec-06	<1	<2	<2	<2	0.0019		24.26	5945.19
MW-21	03-Jan-07	<1	<2	<2	<2	<0.0008			
MW-21	17-Jan-07	<1	<2	<2	<2	<0.0008			
MW-21	05-Feb-07	<1	<2	<2	<2	<0.0008			
MW-21	22-Feb-07	<1	<2	<2	<2	<0.0008		23.68	5945.77
MW-21	07-Mar-07	<1	<2	<2	<2	0.00086		23.82	5945.63
MW-21	13-Mar-07	<1	<2	<2	<2	<0.0008		23.60	5945.85
MW-21	26-Mar-07	<1	<2	<2	<2	<0.0008			
MW-21	11-Apr-07	<1	<2	<2	<2	<0.0008			
MW-21	25-Apr-07	<0.5	<5	<0.5	<2	<0.0008			
MW-21	08-May-07	<0.5	<5	<0.5	<2	<0.0008			
MW-21	22-Jun-07	<1	<2	<2	<2	0.00095			
MW-21	11-Sep-07	<1	<2	<2	<2	0.0012		24.95	5944.50
MW-21	18-Dec-07	<1	<2	<2	<2	0.0038		23.81	5945.64
MW-21	04-Mar-08	<1	<2	<2	<2	<0.0008		23.12	5946.33
MW-21	17-Jun-08	<1	<2	<2	<2	<0.0008		20.80	5948.65
MW-21	30-Sep-08	<1	<2	<2	<2	0.0015		25.00	5944.45
MW-21	08-Dec-08	<1	<2	<2	<2	<0.0008		23.90	5945.55
MW-21	16-Mar-09	<1	<2	<2	<2	<0.0008		23.27	5946.18
MW-21	15-Jun-09	<1	<2	<2	<2	0.0011		21.55	5947.90
MW-21	16-Sep-09	<1	<2	<2	<2	0.002		25.12	5944.33
MW-21	15-Dec-09	<1	<2	<2	<2	<0.0008		24.24	5945.21
MW-21	29-Mar-10	<1	<2	<2	<2	<0.0008		23.76	5945.69
MW-21	29-Jun-10	<1	<2	<2	<2	0.00156		22.65	5946.80
MW-22	21-Sep-04	<1	<2	<2	<2	0.025			
MW-22	14-Oct-04	<1	<2	<2	<2	0.061		13.50	5943.58
MW-22	10-Nov-04	<1	<2	<2	<2	0.023		13.20	5943.88
MW-22	14-Dec-04	<1	<2	<2	<2	0.069		12.42	5944.66
MW-22	13-Jan-05	<1	<2	<2	<2	0.03			
MW-22	09-Feb-05	<1	<2	<2	<2	0.0087		11.95	5945.13
MW-22	09-Mar-05	<1	<2	<2	<2	0.0043		11.89	5945.19
MW-22	09-Mar-05	<1	<2	<2	<2	0.0034		11.89	5945.19
MW-22	09-Mar-05	<0.5	<5	<0.5	<2	<0.01		11.89	5945.19
MW-22	13-Apr-05	<1	<2	<2	<2	0.0013		11.78	5945.30
MW-22	10-May-05	<1	<2	<2	<2	<0.0008		11.14	5945.94
MW-22	09-Jun-05	<1	<2	<2	<2	0.0066		8.11	5948.97
MW-22	12-Jul-05	<1	<2	<2	<2	0.021		8.64	5948.44
MW-22	09-Aug-05	<1	<2	<2	<2	0.0084		9.65	5947.43
MW-22	13-Sep-05	<1	<2	<2	<2	0.0025		10.56	5946.52
MW-22	12-Oct-05	<1	<2	<2	<2	0.004		10.56	5946.52
MW-22	08-Nov-05	<1	<2	<2	<2	0.0042		10.16	5946.92
MW-22	08-Dec-05	<1	<2	<2	<2	<0.0008		9.82	5947.26
MW-22	11-Jan-06	<1	<2	<2	<2	0.007		9.06	5948.02
MW-22	15-Feb-06	<1	<2	<2	<2	0.0015		9.79	5947.29
MW-22	15-Mar-06	<1	<2	<2	<2	0.009		9.51	5947.57
MW-22	11-Apr-06	<1	<2	<2	<2	0.0052		9.05	5948.03
MW-22	11-May-06	<1	<2	<2	<2	<0.0008		9.43	5947.65
MW-22	13-Jun-06	<1	<2	<2	<2	0.0014			
MW-22	06-Sep-06	<1	<2	<2	<2	0.049		10.00	5947.08
MW-22	05-Dec-06	<1	<2	<2	<2	0.00085		10.56	5946.52
MW-22	13-Mar-07	<1	<2	<2	<2	<0.0008		9.95	5947.13
MW-22	22-Jun-07	<1	<2	<2	<2	<0.0008			
MW-22	11-Sep-07	<1	<2	<2	<2	<0.0008		11.45	5945.63
MW-22	18-Dec-07	<1	<2	<2	<2	<0.0008		9.92	5947.16

Appendix B

Summary of Historical Groundwater Analytical Results and Groundwater Elevations
Encana, West Divide Creek Seep
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-22	04-Mar-08	<1	<2	<2	<2	<0.0008		9.43	5947.65
MW-22	17-Jun-08	<1	<2	<2	<2	<0.0008		7.21	5949.87
MW-22	30-Sep-08	<1	<2	<2	<2	<0.0008		11.55	5945.53
MW-22	08-Dec-08	<1	<2	<2	<2	<0.0008		10.25	5946.83
MW-22	16-Mar-09	<1	<2	<2	<2	<0.0008		9.67	5947.41
MW-22	15-Jun-09	<1	<2	<2	<2	<0.0008		8.35	5948.73
MW-22	16-Sep-09	<1	<2	<2	<2	<0.0008		11.74	5945.34
MW-22	15-Dec-09	<1	<2	<2	<2	<0.0008		10.60	5946.48
MW-22	29-Mar-10	<1	<2	<2	<2	<0.0008		10.21	5946.87
MW-22	29-Jun-10	<1	<2	<2	<2	<0.0008		9.36	5947.72
MW-23	23-Sep-04	<1	<2	<2	<2	3.7			
MW-23	14-Oct-04	<1	<2	<2	<2	5.5		17.05	5935.64
MW-23	10-Nov-04	<1	<2	<2	<2	6.1		17.20	5935.49
MW-23	14-Dec-04	<1	<2	<2	<2	6.6		15.71	5936.98
MW-23	13-Jan-05	<1	<2	<2	<2	7.2		16.02	5936.67
MW-23	10-Feb-05	<1	<2	<2	<2	4.3	0.0		
MW-23	09-Mar-05	<1	<2	<2	<2	4.1		16.58	5936.11
MW-23	13-Apr-05	<1	<2	<2	<2	7.5		16.08	5936.61
MW-23	11-May-05	<1	<2	<2	<2	4		14.51	5938.18
MW-23	09-Jun-05	<1	<2	<2	<2	4.9		13.15	5939.54
MW-23	13-Jul-05	<1	<2	<2	<2	3.4		13.33	5939.36
MW-23	10-Aug-05	<1	<2	<2	<2	3.6		15.14	5937.55
MW-23	12-Sep-05	<1	<2	<2	<2	4.4		16.93	5935.76
MW-23	11-Oct-05	<1	<2	<2	<2	3.3			
MW-23	09-Nov-05	<1	<2	<2	<2	3.5			
MW-23	08-Dec-05	<1	<2	<2	<2	3.2		16.08	5936.61
MW-23	12-Jan-06	<1	<2	<2	<2	3		16.16	5936.53
MW-23	15-Feb-06	<1	<2	<2	<2	5.5		16.03	5936.66
MW-23	16-Mar-06	<1	<2	<2	<2	7.3		16.15	5936.54
MW-23	11-Apr-06	<1	<2	<2	<2	5.3		14.80	5937.89
MW-23	11-May-06	<1	<2	<2	<2	4.6		13.15	5939.54
MW-23	13-Jun-06	<1	<2	<2	<2	0.92			
MW-23	21-Jul-06	<1	<2	<2	<2	2.4			
MW-23	28-Jul-06	<1	<2	<2	<2	3.6			
MW-23	04-Aug-06	<1	<2	<2	<2	4.2			
MW-23	11-Aug-06	<1	<2	<2	<2	4			
MW-23	16-Aug-06	<1	<2	<2	<2	3.3			
MW-23	24-Aug-06	<1	<2	<2	<2	5.4			
MW-23	31-Aug-06	<1	<2	<2	<2	5		17.39	5935.30
MW-23	06-Sep-06	<1	<2	<2	<2	2.9		17.29	5935.40
MW-23	13-Sep-06	<1	<2	<2	<2	5.5		17.36	5935.33
MW-23	21-Sep-06	<1	<2	<2	<2	4.8		17.45	5935.24
MW-23	27-Sep-06	<1	<2	<2	<2	4		17.22	5935.47
MW-23	06-Oct-06	<1	<2	<2	<2	4.6		17.18	5935.51
MW-23	12-Oct-06	<1	<2	<2	<2	5.7		17.21	5935.48
MW-23	19-Oct-06	<1	<2	<2	<2	4.2		16.64	5936.05
MW-23	25-Oct-06	<1	<2	<2	<2	3.9		16.89	5935.80
MW-23	01-Nov-06	<1	<2	<2	<2	3.1		16.31	5936.38
MW-23	17-Nov-06	<1	<2	<2	<2	1.6		16.25	5936.44
MW-23	06-Dec-06	<1	<2	<2	<2	1.2		16.32	5936.37
MW-23	03-Jan-07	<1	<2	<2	<2	2.3			
MW-23	17-Jan-07	<1	<2	<2	<2	1.7			
MW-23	05-Feb-07	<1	<2	<2	<2	2.2			
MW-23	22-Feb-07	<1	<2	<2	<2	4		15.68	5937.01
MW-23	07-Mar-07	<1	<2	<2	<2	3.4		15.34	5937.35
MW-23	13-Mar-07	<1	<2	<2	<2	3.4	0.2	15.30	5937.39
MW-23	26-Mar-07	<1	<2	<2	<2	3.6			

Appendix B

Summary of Historical Groundwater Analytical Results and Groundwater Elevations
Encana, West Divide Creek Seep
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-23	11-Apr-07	<1	<2	<2	<2	2.2			
MW-23	25-Apr-07	<0.5	<5	<2	<2	3.2			
MW-23	08-May-07	<0.5	<5	<2	<2	2.1			
MW-23	22-Jun-07	<1	<2	<2	<2	2.3			
MW-23	10-Sep-07	<1	<2	<2	<2	3.6		17.29	5935.40
MW-23	18-Dec-07	<1	<2	<2	<2	4.5		16.65	5936.04
MW-23	04-Mar-08	<1	<2	<2	<2	1.3		16.17	5936.52
MW-23	17-Jun-08	<1	<2	<2	<2	0.0012		12.16	5940.53
MW-23	29-Sep-08	<1	<2	<2	<2	0.72		17.10	5935.59
MW-23	08-Dec-08	<1	<2	<2	<2	0.45		14.77	5937.92
MW-23	16-Mar-09	<1	<2	<2	<2	0.37		15.52	5937.17
MW-23	15-Jun-09	<1	<2	<2	<2	<0.0008	<0.0008	11.62	5941.07
MW-23	16-Sep-09	<1	<2	<2	<2	<0.0008	<0.0008	17.00	5935.69
MW-23	16-Sep-09	<1	<2	<2	<2	0.0011		17.00	5935.69
MW-23	16-Dec-09	<1	<2	<2	<2	0.37		16.12	5936.57
MW-23	30-Mar-10	<1	<2	<2	<2	0.0724		15.69	5937.00
MW-23	30-Mar-10	<1	<2	<2	<2	0.0964		15.69	5937.00
MW-23	28-Jun-10	<1	<2	<2	<2	<0.0008		11.46	5941.23
MW-23	28-Jun-10	<1	<2	<2	<2	<0.0008		11.86	5940.83
MW-24	21-Sep-04	<1	<2	<2	<2	<0.0008			
MW-24	14-Oct-04	<1	<2	<2	<2	0.00082		5.25	5949.66
MW-24	10-Nov-04	<1	<2	<2	<2	<0.0008		6.00	5948.91
MW-24	14-Dec-04	<1	<2	<2	<2	<0.0008		6.54	5948.37
MW-24	13-Jan-05	<1	<2	<2	<2	<0.0008			
MW-24	10-Feb-05	<1	<2	<2	<2	<0.0008			
MW-24	09-Mar-05	<1	<2	<2	<2	<0.0008		6.95	5947.96
MW-24	13-Apr-05	<1	<2	<2	<2	<0.0008		7.28	5947.63
MW-24	11-May-05	<1	<2	<2	<2	<0.0008		2.64	5952.27
MW-24	09-Jun-05	<1	<2	<2	<2	<0.0008		7.08	5947.83
MW-24	13-Jul-05	<1	<2	<2	<2	<0.0008			
MW-24	10-Aug-05	<1	<2	<2	<2	<0.0008		5.02	5949.89
MW-24	10-Aug-05	<1	<2	<2	<2	<0.0008		5.02	5949.89
MW-24	10-Aug-05	<0.5	<5	<0.5	1.9	<0.01		5.02	5949.89
MW-24	12-Sep-05	<1	<2	<2	<2	<0.0008		5.35	5949.56
MW-24	12-Oct-05	<1	<2	<2	<2	<0.0008		5.83	5949.08
MW-24	09-Nov-05	<1	<2	<2	<2	<0.0008			
MW-24	09-Nov-05	<0.5	<5	<0.5	NA	<0.01			
MW-24	09-Nov-05	<1	<2	<2	<2	<0.0008			
MW-24	08-Dec-05	<1	<2	<2	<2	<0.0008		5.82	5949.09
MW-24	10-Jan-06	<1	<2	<2	<2	<0.0008		5.88	5949.03
MW-24	15-Feb-06	<1	<2	<2	<2	<0.0008		6.18	5948.73
MW-24	15-Feb-06	<1	<2	<2	<2	<0.0008		6.18	5948.73
MW-24	15-Feb-06	<0.5	<0.5	<0.5	<0.5	<0.0034		6.18	5948.73
MW-24	16-Mar-06	<1	<2	<2	<2	0.002		6.45	5948.46
MW-24	13-Apr-06	<1	<2	<2	<2	<0.0008		6.13	5948.78
MW-24	11-May-06	<1	<2	<2	<2	<0.0008		6.78	5948.13
MW-24	13-Jun-06	<1	<2	<2	<2	<0.0008			
MW-24	06-Sep-06	<1	<2	<2	<2	<0.0008		5.23	5949.68
MW-24	06-Dec-06	<1	<2	<2	<2	<0.0008		5.36	5949.55
MW-24	06-Dec-06	<0.25	<0.25	<0.25	<0.25	0.00028		5.36	5949.55
MW-24	12-Mar-07	<1	<2	<2	<2	<0.0008		5.80	5949.11
MW-24	22-Jun-07	<1	<2	<2	<2	<0.0008			
MW-24	10-Sep-07	<1	<2	<2	<2	0.021		5.15	5949.76
MW-24	18-Dec-07	<1	<2	<2	<2	<0.0008		5.41	5949.50
MW-24	05-Mar-08	<1	<2	<2	<2	<0.0008		5.01	5949.90
MW-24	17-Jun-08	<1	<2	<2	<2	<0.0008		6.15	5948.76
MW-24	01-Oct-08	<1	<2	<2	<2	0.004		4.85	5950.06

Appendix B

Summary of Historical Groundwater Analytical Results and Groundwater Elevations
Encana, West Divide Creek Seep
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-24	10-Dec-08	<1	<2	<2	<2	<0.0008		4.58	5950.33
MW-24	10-Dec-08	<1	<2	<2	<2	<0.0008		4.58	5950.33
MW-24	10-Dec-08	<1	<1	<1	<1	<0.001		4.58	5950.33
MW-24	17-Mar-09	<1	<2	<2	<2	<0.0008		5.45	5949.46
MW-24	16-Jun-09	<1	<2	<2	<2	0.014		3.89	5951.02
MW-24	17-Sep-09	<1	<2	<2	<2	0.6		4.38	5950.53
MW-24	16-Dec-09	<1	<2	<2	<2	<0.0008		5.52	5949.39
MW-24	31-Mar-10	<1	<2	<2	<2	<0.0008		5.41	5949.50
MW-24	29-Jun-10	<1	<2	<2	<2	0.00178		4.85	5950.06
MW-25	21-Sep-04	<1	<2	<2	<2	0.093			
MW-25	13-Oct-04	<1	<2	<2	<2	0.029		2.57	5969.22
MW-25	09-Nov-04	<1	<2	<2	<2	0.06		3.30	5968.49
MW-25	13-Dec-04	<1	<2	<2	<2	0.087		2.54	5969.25
MW-25	08-Mar-05	<1	<2	<2	<2	0.17		4.02	5967.77
MW-25	12-Apr-05	<1	<2	<2	<2	0.065		4.74	5967.05
MW-25	09-May-05	<1	<2	<2	<2	0.08		2.89	5968.90
MW-25	08-Jun-05	<1	<2	<2	<2	0.067		2.08	5969.71
MW-25	11-Jul-05	<1	<2	<2	<2	0.041			
MW-25	08-Aug-05	<1	<2	<2	<2	0.06		2.51	5969.28
MW-25	12-Sep-05	<1	<2	<2	<2	0.4		2.68	5969.11
MW-25	11-Oct-05	<1	<2	<2	<2	0.0079		2.51	5969.28
MW-25	07-Nov-05	<1	<2	<2	<2	0.034			
MW-25	11-Apr-06	<1	<2	<2	<2	0.13		2.75	5969.04
MW-25	10-May-06	<1	<2	<2	<2	0.14		2.65	5969.14
MW-25	12-Jun-06	<1	<2	<2	<2	0.06			
MW-25	06-Sep-06	<1	<2	<2	<2	0.068		2.42	5969.37
MW-25	13-Mar-07	<1	<2	<2	<2	0.076			
MW-25	21-Jun-07	<1	<2	<2	<2	0.2			
MW-25	12-Sep-07	<1	<2	<2	<2	0.0023		2.71	5969.08
MW-25	17-Jun-08	<1	<2	<2	<2	0.0025		2.51	5969.28
MW-25	29-Sep-08								Lost
MW-25	08-Dec-08								Frozen
MW-25	17-Mar-09	<1	<2	<2	<2	<0.0008		3.30	5968.49
MW-25	15-Jun-09	<1	<2	<2	<2	0.011		4.03	5967.76
MW-25	17-Sep-09	<1	<2	<2	<2	0.11		3.73	5968.06
MW-25	15-Dec-09								Frozen
MW-25	29-Mar-10	<1	<2	<2	<2	0.004		4.04	5967.75
MW-25	28-Jun-10	<1	2	<2	<2	0.0103		3.40	5968.39
MW-25[a]	21-Jul-10	<1	<2	<2	<2				
MW-26	21-Sep-04	<1	<2	<2	<2	0.82			
MW-26	14-Oct-04	<1	<2	<2	<2	1.4		4.15	5950.50
MW-26	10-Nov-04	<1	<2	<2	<2	4		4.90	5949.75
MW-26	14-Dec-04	<1	<2	<2	<2	2.4		4.81	5949.84
MW-26	13-Jan-05	<0.5	<5	<0.5	NA	0.5		5.79	5948.86
MW-26	13-Jan-05	<1	<2	<2	<2	2.4		5.79	5948.86
MW-26	13-Jan-05	<1	<2	<2	<2	2.1		5.79	5948.86
MW-26	10-Feb-05	<0.5	<5	<0.5	NA	2.9			
MW-26	10-Feb-05	<1	<2	<2	<2	3.2			
MW-26	10-Feb-05	<1	<2	<2	<2	2.9			
MW-26	09-Mar-05	<1	<2	<2	<2	3.4		4.25	5950.40
MW-26	13-Apr-05	<1	<2	<2	<2	3.3		4.15	5950.50
MW-26	13-Apr-05	<1	<2	<2	<2	3.3		4.15	5950.50
MW-26	13-Apr-05	<0.5	<2	<0.5	NA	3.7		4.15	5950.50
MW-26	11-May-05	<1	<2	<2	<2	2.1		1.77	5952.88
MW-26	11-May-05	<0.5	<5	<0.5	NA	0.38		1.77	5952.88
MW-26	11-May-05	<1	<2	<2	<2	2.3		1.77	5952.88

Appendix B

Summary of Historical Groundwater Analytical Results and Groundwater Elevations
Encana, West Divide Creek Seep
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-26	08-Jun-05	<1	<2	<2	<2	2.8		1.79	5952.86
MW-26	12-Jul-05	<1	<2	<2	<2	1.5		1.79	5952.86
MW-26	09-Aug-05	<1	<2	<2	<2	1		1.48	5953.17
MW-26	13-Sep-05	<1	<2	<2	<2	0.97		1.32	5953.33
MW-26	13-Sep-05	<1	<2	<2	<2	0.99		1.32	5953.33
MW-26	13-Sep-05	<0.5	<5	<0.5	NA	1.5		1.32	5953.33
MW-26	11-Oct-05	<1	<2	<2	<2	0.48		1.45	5953.20
MW-26	09-Nov-05	<1	<2	<2	<2	1.4		1.79	5952.86
MW-26	08-Dec-05	<1	<2	<2	<2	0.86		1.75	5952.90
MW-26	12-Jan-06	<1	<2	<2	<2	1.2		1.65	5953.00
MW-26	15-Feb-06	<1	<2	<2	<2	1		1.64	5953.01
MW-26	16-Mar-06	<1	<2	<2	<2	0.83		1.48	5953.17
MW-26	16-Mar-06	<0.25	<0.25	<0.25	<0.25	0.000377		1.48	5953.17
MW-26	12-Apr-06	<1	<2	<2	<2	0.45		1.13	5953.52
MW-26	12-Apr-06	<0.25	<0.25	<0.25	<0.25	0.858		1.13	5953.52
MW-26	11-May-06	<1	<2	<2	<2	0.75		1.55	5953.10
MW-26	11-May-06	<0.5	<0.5	<0.5	<0.5	0.877		1.55	5953.10
MW-26	13-Jun-06	<1	<2	<2	<2	0.63			
MW-26	13-Jun-06	<0.5	<0.5	<0.5	<0.5	0.767			
MW-26	07-Sep-06	<1	<5	<2	<2	1.5		1.20	5953.45
MW-26	06-Dec-06	<0.25	<0.25	<0.25	<0.25	0.355		0.98	5953.67
MW-26	06-Dec-06	<1	<2	<2	<2	1.1		0.98	5953.67
MW-26	06-Dec-06	<1	<2	<2	<2	0.76		0.98	5953.67
MW-26	12-Mar-07	<1	<2	<2	<2	0.56		0.70	5953.95
MW-26	21-Jun-07	<1	<2	<2	<2	0.62			
MW-26	11-Sep-07	<1	<2	<2	<2	1.4		1.00	5953.65
MW-26	18-Dec-07	<1	<2	<2	<2	0.036		1.73	5952.92
MW-26	04-Mar-08	<1	<2	<2	<2	0.35		0.60	5954.05
MW-26	17-Jun-08	<1	<2	<2	<2	0.55		1.30	5953.35
MW-26	17-Jun-08	<1	<1	<1	<2			1.30	5953.35
MW-26	01-Oct-08	<1	<2	<2	<2	1		1.60	5953.05
MW-26	09-Dec-08	<1	<2	<2	<2	0.73		1.25	5953.40
MW-26	09-Dec-08	<1	<2	<2	<2	0.79		1.25	5953.40
MW-26	09-Dec-08	<1	<1	<1	<1	0.145		1.25	5953.40
MW-26	17-Mar-09	<1	<2	<2	<2	0.14		1.59	5953.06
MW-26	16-Jun-09	<1	<2	<2	<2	0.33		1.00	5953.65
MW-26	17-Sep-09	<1	<2	<2	<2	0.049		1.60	5953.05
MW-26	16-Dec-09	<1	<2	<2	<2	0.27		1.60	5953.05
MW-26	16-Dec-09	<1	<2	<2	<2	0.33		1.60	5953.05
MW-26	31-Mar-10	<1	<2	<2	<2	1.25		1.24	5953.41
MW-26	28-Jun-10	<1	<2	<2	<2	0.778		1.09	5953.56
MW-27	23-Sep-04	<1	<2	<2	<2	0.00095			
MW-27	14-Oct-04	<1	<2	<2	<2	<0.0008		9.72	5946.50
MW-27	10-Nov-04	<1	<2	<2	<2	0.0011		7.30	5948.92
MW-27	14-Dec-04	<1	<2	<2	<2	0.00091		6.74	5949.48
MW-27	13-Jan-05	<1	<2	<2	<2	<0.0009		7.39	5948.83
MW-27	10-Feb-05	<1	<2	<2	<2	<0.0008			
MW-27	09-Mar-05	<1	<2	<2	<2	<0.0008		9.29	5946.93
MW-27	13-Apr-05	<1	<2	<2	<2	<0.0008		8.02	5948.20
MW-27	11-May-05	<1	<2	<2	<2	<0.0008		5.56	5950.66
MW-27	09-Jun-05	<1	<2	<2	<2	<0.0008		4.67	5951.55
MW-27	13-Jul-05	<1	<2	<2	<2	<0.0008		13.33	5942.89
MW-27	10-Aug-05	<1	<2	<2	<2	<0.0008		8.39	5947.83
MW-27	12-Sep-05	<1	<2	<2	<2	<0.0008		9.87	5946.35
MW-27	11-Oct-05	<1	<2	<2	<2	<0.0008			
MW-27	09-Nov-05	<1	<2	<2	<2	0.00086			
MW-27	08-Dec-05	<1	<2	<2	<2	<0.0008		8.23	5947.99

Appendix B

Summary of Historical Groundwater Analytical Results and Groundwater Elevations
Encana, West Divide Creek Seep
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-27	12-Jan-06	<1	<2	<2	<2	<0.0008		9.06	5947.16
MW-27	15-Feb-06	<1	<2	<2	<2	<0.0008		9.57	5946.65
MW-27	16-Mar-06	<1	<2	<2	<2	<0.0008		7.91	5948.31
MW-27	11-Apr-06	<1	<2	<2	<2	0.00083		6.45	5949.77
MW-27	11-May-06	<1	<2	<2	<2	<0.0008		4.15	5952.07
MW-27	13-Jun-06	<1	<2	<2	<2	<0.0008			
MW-27	06-Sep-06	<1	<2	<2	<2	<0.0008		11.04	5945.18
MW-27	06-Dec-06	<1	<2	<2	<2	<0.0008		8.82	5947.40
MW-27	13-Mar-07	<1	<2	<2	<2	<0.0008		5.90	5950.32
MW-27	22-Jun-07	<1	<2	<2	<2	<0.0008			
MW-27	10-Sep-07	<1	<2	<2	<2	<0.0008		11.21	5945.01
MW-27	18-Dec-07	<1	<2	<2	<2	<0.0008		10.95	5945.27
MW-27	04-Mar-08	<1	<2	<2	<2	<0.0008		9.75	5946.47
MW-27	17-Jun-08	<1	<2	<2	<2	<0.0008		5.47	5950.75
MW-27	29-Sep-08	<1	<2	<2	<2	<0.0008	<0.0008	11.35	5944.87
MW-27	09-Dec-08	<1	<2	<2	<2	<0.0008	<0.0008	5.75	5950.47
MW-27	16-Mar-09	<1	<2	<2	<2	<0.0008		8.21	5948.01
MW-27	15-Jun-09	<1	<2	<2	<2	<0.0008		3.85	5952.37
MW-27	16-Sep-09	<1	<2	<2	<2	0.0015		11.42	5944.80
MW-27	16-Dec-09	<1	<2	<2	<2	<0.0008		8.90	5947.32
MW-27	30-Mar-10	<1	<2	<2	<2	<0.0008		6.78	5949.44
MW-27	28-Jun-10	<1	2.1	<2	<2	<0.0008		6.31	5949.91
MW-27[a]	21-Jul-20	<1	<2	<2	<2				
EP-01	08-Apr-04	<1	<2	<2	<2	0.015			
E2	16-Sep-04	<1	<2	<2	<2	0.16			
E2	20-Apr-05	<1	<2	<2	<2	0.0015			
E2	18-May-05	<1	<2	<2	<2	0.0035			
E2	09-Jun-05	<1	<2	<2	<2	0.43			
E2-D	09-Jun-05	<1	<2	<2	<2	0.51			
E2-S	09-Jun-05	<0.5	<5	<0.5	<1.5	0.13			
E2	13-Jul-05	<1	<2	<2	<2	0.41			
E2	10-Aug-05	<1	<2	<2	<2	0.23			
E2	08-Sep-05	<1	<2	<2	<2	0.11			
E2	06-Oct-05	<1	<2	<2	<2	0.12			
E2	03-Nov-05	<1	<2	<2	<2	0.095			
E2	12-Dec-05	<1	<2	<2	<2	0.0012			
E2	10-Jan-06	<1	<2	<2	<2	0.037			
E2	15-Feb-06	<1	<2	<2	<2	0.027			
E2	16-Mar-06	<1	<2	<2	<2	0.13			
E2	11-Apr-06	<1	<2	<2	<2	0.16			
E2	03-May-06	<1	<2	<2	<2	0.14			
E2	06-Jun-06	<1	<2	<2	<2	0.059			
E2	21-Jul-06	<1	<2	<2	<2	0.16			
E2	28-Jul-06	<1	<2	<2	<2	0.068			
E2	04-Aug-06	<1	<2	<2	<2	0.085			
E2	11-Aug-06	<1	<2	<2	<2	0.051			
E2	16-Aug-06	<1	<2	<2	<2	0.064			
E2	24-Aug-06	<1	<2	<2	<2	0.05			
E2	31-Aug-06	<1	<2	<2	<2	0.041			
E2	06-Sep-06	<1	<2	<2	<2	0.038			
E2	13-Sep-06	<1	<2	<2	<2	0.03			
E2	21-Sep-06	<1	<2	<2	<2	0.052			
E2	27-Sep-06	<1	<2	<2	<2	0.018			
E2	06-Oct-06	<1	<2	<2	<2	0.013			
E2	12-Oct-06	<1	<2	<2	<2	0.028			
E2	19-Oct-06	<1	<2	<2	<2	0.016			
E2	25-Oct-06	<1	<2	<2	<2	0.0061			

Appendix B

Summary of Historical Groundwater Analytical Results and Groundwater Elevations
Encana, West Divide Creek Seep
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
E2-D	25-Oct-06	<1	<2	<2	<2	0.0098			
E2-S	25-Oct-06	<0.25	<0.25	<0.25	<0.5	0.00274			
E2	01-Nov-06	<1	<2	<2	<2	0.0076			
E2	17-Nov-06	<1	<2	<2	<2	0.0025			
E2	06-Dec-06	<1	<2	<2	<2	0.0067			
E2	03-Jan-07	<1	<2	<2	<2	0.0075			
E2	17-Jan-07	<1	<2	<2	<2	0.0095			
E2	05-Feb-07	<1	<2	<2	<2	0.011			
E2	22-Feb-07	<1	<2	<2	<2	0.024			
E2	07-Mar-07	<1	<2	<2	<2	0.02			
E2	13-Mar-07	<1	<2	<2	<2	0.018			
E2	26-Mar-07	<1	<2	<2	<2	0.032			
E2	11-Apr-07	<1	<2	<2	<2	0.049			
E2	25-Apr-07	<0.5	<5	<0.5	NS	0.055			
E2	08-May-07	<0.5	<5	<0.5	NS	0.054			
E2	30-May-07	<1	<2	<2	<2	0.012			
E2	13-Jun-07	<1	<2	<2	<2	0.0095			
E2	22-Jun-07	<1	<2	<2	<2	0.0096			
E2	05-Jul-07	<1	<2	<2	<2	0.017			
E2	20-Jul-07	<1	<2	<2	<2	0.047			
E2	02-Aug-07	<1	<2	<2	<2	0.082			
E2	15-Aug-07	<1	<2	<2	<2	0.1			
E2	10-Sep-07	<1	<2	<2	<2	0.043			
E2	24-Sep-07	<1	<2	<2	<2	0.11			
E2	09-Oct-07	<1	<2	<2	<2	<0.0008			
E2	24-Oct-07	<0.5	<5	<0.5	<2	<0.0008			
EDC-1	02-Nov-07	< 1	<2	<2	<2	0.0041			
EDC-2	02-Nov-07	<0.5	<5	<0.5	NS	0.0089			
E2	07-Nov-07	<0.5	<5	<0.5	<2	<0.0008			
E2	20-Nov-07	<1	<2	<2	<2	<0.0008			
E2	04-Dec-07	<1	<2	<2	<2	<0.0008			
E2	18-Dec-07	<1	<2	<2	<2	<0.0008			
E2	03-Jan-08	<1	<2	<2	<2	0.012			
E2	04-Mar-08	<1	<2	<2	<2	0.0095			
EICH1	21-May-08	<0.5	<5	<0.5	<1.5	< 0.01			
ECH2WW	29-Sep-08	<1	<2	<2	<2	<0.0008			
EICH1	01-Dec-08	<0.5	<5	<0.5	<1.5	< 0.010			
EICH2	16-Mar-09	<1	<2	<2	<2	<0.0008			
EICH2	15-Jun-09	<1	<2	<2	<2	0.087			
EICH2WW	16-Sep-09	<1	<2	<2	<2	0.1			
EICH2	16-Dec-09	<1	<2	<2	<2	<0.0008			
EICH2	30-Mar-10	<1	<2	<2	<2	0.0254			
EICH2	29-Jun-10	<1	<2	<2	<2	0.014			
LANGWW	17-Sep-09	<1	<2	<2	<2	< 0.0008			

Bold - indicates value exceeds state standard

[a] - Resampled due to suspected laboratory error

mg/l - milligrams/liter

DTW - depth to water below measuring point

ft-msl - feet above mean sea level

ug/l - micrograms/liter

ft - feet

Total number of all groundwater samples over all dates = 1160

Blank cell - indicates not analyzed or not obtained

APPENDIX C

Historical Surface-Water Results
included as .pdf file on CD in back

Appendix C

Summary of Historical Surface-Water Analytical Results
Encana, West Divide Creek Seep
Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-1	13-Apr-04	<1	<2	<2	<2	0.0055	
DCS-1	14-Apr-04	<1	<2	<2	<2	0.0039	
DCS-1	15-Apr-04	<1	<2	<2	<2	0.0077	
DCS-1	16-Apr-04	<1	<2	<2	<2	0.011	
DCS-1	17-Apr-04	<1	<2	<2	<2	0.015	
DCS-1	18-Apr-04	<1	<2	<2	<2	0.018	
DCS-1	19-Apr-04	<1	<2	<2	<2	0.0031	
DCS-1	26-Apr-04	<1	<2	<2	<2	0.003	
DCS-1	29-Apr-04	<1	<2	<2	<2	0.0015	
DCS-1	03-May-04	<1	<2	<2	<2	0.0011	
DCS-1	02-Jun-04	<1	<2	<2	<2	0.0013	
DCS-1	08-Jul-04	<1	<2	<2	<2	0.0016	
DCS-1	03-Aug-04	<1	<2	<2	<2	0.0025	
DCS-1	14-Sep-04	<1	<2	<2	<2	0.0014	
DCS-1	12-Oct-04	<1	<2	<2	<2	0.02	
DCS-1	26-Oct-04	<1	<2	<2	<2	0.026	
DCS-1	27-Oct-04	<1	<2	<2	<2	0.021	
DCS-1	28-Oct-04	<1	<2	<2	<2	0.023	
DCS-1	29-Oct-04	<1	<2	<2	<2	0.027	
DCS-1	30-Oct-04	<1	<2	<2	<2	0.026	
DCS-1	31-Oct-04	<1	<2	<2	<2	0.028	
DCS-1	01-Nov-04	<1	<2	<2	<2	0.027	
DCS-1	02-Nov-04	<1	<2	<2	<2	0.05	
DCS-1	03-Nov-04	<1	<2	<2	<2	0.029	
DCS-1	04-Nov-04	<1	<2	<2	<2	0.042	
DCS-1	05-Nov-04	<1	<2	<2	<2	0.035	
DCS-1	06-Nov-04	<1	<2	<2	<2	0.037	
DCS-1	07-Nov-04	<1	<2	<2	<2	0.032	
DCS-1	08-Nov-04	<1	<2	<2	<2	0.018	
DCS-1	09-Nov-04	<1	<2	<2	<2	0.022	
DCS-1	10-Nov-04	<1	<2	<2	<2	0.024	
DCS-1	11-Nov-04	<1	<2	<2	<2	0.026	
DCS-1	12-Nov-04	<1	<2	<2	<2	0.028	
DCS-1	19-Nov-04	<1	<2	<2	<2	0.033	
DCS-1	23-Nov-04	<1	<2	<2	<2	0.057	
DCS-1	02-Dec-04	<1	<2	<2	<2	0.086	
DCS-1	09-Dec-04	<1	<2	<2	<2	0.002	
DCS-1	15-Dec-04	<1	<2	<2	<2	0.0019	
DCS-1	20-Dec-04	<1	<2	<2	<2	0.002	
DCS-1	23-Dec-04	<1	<2	<2	<2	0.0013	
DCS-1	06-Jan-05	<1	<2	<2	<2	0.0015	
DCS-1	10-Jan-05	<1	<2	<2	<2	0.0022	

Appendix C

Summary of Historical Surface-Water Analytical Results
Encana, West Divide Creek Seep
Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-1	10-Jan-05	<1	<2	<2	<2	0.0023	
DCS-1	10-Jan-05	<0.5	<5	<0.5	NA	<0.01	
DCS-1	20-Jan-05	<1	<2	<2	<2	0.0013	
DCS-1	26-Jan-05	<1	<2	<2	<2	0.00095	
DCS-1	04-Feb-05	<1	<2	<2	<2	0.0013	
DCS-1	07-Feb-05	<1	<2	<2	<2	0.0013	
DCS-1	16-Feb-05	<1	<2	<2	<2	0.0013	
DCS-1	24-Feb-05	<1	<2	<2	<2	0.0011	
DCS-1	03-Mar-05	<1	<2	<2	<2	0.0013	
DCS-1	07-Mar-05	<1	<2	<2	<2	0.0014	
DCS-1	07-Mar-05	<1	<2	<2	<2	0.0014	
DCS-1	07-Mar-05	<0.5	<5	<0.5	NA	<0.01	
DCS-1	18-Mar-05	<1	<2	<2	<2	0.0011	
DCS-1	23-Mar-05	<1	<2	<2	<2	0.0063	
DCS-1	29-Mar-05	<1	<2	<2	<2	<0.0008	
DCS-1	07-Apr-05	<1	<2	<2	<2	0.0062	
DCS-1	11-Apr-05	<1	<2	<2	<2	0.01	
DCS-1	20-Apr-05	<1	<2	<2	<2	<0.0008	
DCS-1	27-Apr-05	<1	<2	<2	<2	<0.0008	
DCS-1	05-May-05	<1	<2	<2	<2	<0.0008	
DCS-1	09-May-05	<1	<2	<2	<2	<0.0008	
DCS-1	18-May-05	<1	<2	<2	<2	<0.0008	
DCS-1	25-May-05	<1	<2	<2	<2	<0.0008	
DCS-1	02-Jun-05	<1	<2	<2	<2	0.0018	
DCS-1	08-Jun-05	<1	<2	<2	<2	0.0019	
DCS-1	15-Jun-05	<1	<2	<2	<2	0.0026	
DCS-1	21-Jun-05	<1	<2	<2	<2	0.0011	
DCS-1	30-Jun-05	<1	<2	<2	<2	0.0012	
DCS-1	07-Jul-05	<1	<2	<2	<2	0.0013	
DCS-1	11-Jul-05	<1	<2	<2	<2	0.0013	
DCS-1	21-Jul-05	<1	<2	<2	<2	0.0018	
DCS-1	27-Jul-05	<1	<2	<2	<2	0.0011	
DCS-1	03-Aug-05	<1	<2	<2	<2	0.0014	
DCS-1	08-Aug-05	<1	<2	<2	<2	0.0014	
DCS-1	16-Aug-05	<1	<2	<2	<2	0.0022	
DCS-1	24-Aug-05	<1	<2	<2	<2	0.0015	
DCS-1	02-Sep-05	<1	<2	<2	<2	0.0017	
DCS-1	09-Sep-05	<1	<2	<2	<2	0.0021	
DCS-1	13-Sep-05	<1	<2	<2	<2	0.0014	
DCS-1	22-Sep-05	<1	<2	<2	<2	<0.0008	
DCS-1	29-Sep-05	<1	<2	<2	<2	<0.0008	
DCS-1	06-Oct-05	<1	<2	<2	<2	0.006	

Appendix C

Summary of Historical Surface-Water Analytical Results
Encana, West Divide Creek Seep
Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-1	10-Oct-05	<1	<2	<2	<2	0.0015	
DCS-1	20-Oct-05	<1	<2	<2	<2	0.0063	
DCS-1	27-Oct-05	<1	<2	<2	<2	0.0061	
DCS-1	03-Nov-05	<1	<2	<2	<2	0.0012	
DCS-1	07-Nov-05	<1	<2	<2	<2	0.0012	
DCS-1	17-Nov-05	<1	<2	<2	<2	0.0011	
DCS-1	22-Nov-05	<1	<2	<2	<2	0.0017	
DCS-1	29-Nov-05	<1	<2	<2	<2	0.0016	
DCS-1	06-Dec-05	<1	<2	<2	<2	0.0013	
DCS-1	14-Dec-05	<1	<2	<2	<2	0.0014	
DCS-1	21-Dec-05	<1	<2	<2	<2	<0.0008	
DCS-1	29-Dec-05	<1	<2	<2	<2	<0.0008	
DCS-1	05-Jan-06	<1	<2	<2	<2	<0.0008	
DCS-1	09-Jan-06	<1	<2	<2	<2	<0.0008	
DCS-1	18-Jan-06	<1	<2	<2	<2	<0.0008	
DCS-1	24-Jan-06	<1	<2	<2	<2	0.0011	
DCS-1	01-Feb-06	<1	<2	<2	<2	0.00089	
DCS-1	09-Feb-06	<0.5	<1	<1	NA	0.003	
DCS-1	13-Feb-06	<0.5	<1	<1	NA	<0.0008	
DCS-1	22-Feb-06	<1	<2	<2	<2	0.00081	
DCS-1	01-Mar-06	<1	<2	<2	<2	<0.0008	
DCS-1	09-Mar-06	<1	<2	<2	<2	0.00084	
DCS-1	14-Mar-06	<1	<2	<2	<2	<0.0008	
DCS-1	22-Mar-06	<1	<2	<2	<2	0.0017	
DCS-1	30-Mar-06	<1	<2	<2	<2	<0.0008	
DCS-1	05-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-1	10-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-1	20-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-1	27-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-1	04-May-06	<1	<2	<2	<2	<0.0008	
DCS-1	09-May-06	<1	<2	<2	<2	<0.0008	
DCS-1	13-Jun-06	<1	<2	<2	<2	0.0016	
DCS-1	05-Sep-06	<1	<5	<2	<2	0.0019	
DCS-1	04-Dec-06	<1	<5	<2	<2	0.0015	
DCS-1	04-Dec-06	<0.25	<0.25	<0.25	NA	0.0005	
DCS-1	12-Mar-07	<1	<5	<2	<2	<0.0008	
DCS-1	21-Jun-07	<1	<2	<2	<2	<0.0008	
DCS-1	13-Sep-07	<1	<2	<2	<2	0.0018	
DCS-1	17-Dec-07	<1	<2	<2	<2	0.0015	
DCS-1	03-Mar-08	<1	<2	<2	<2	<0.0008	
DCS-1	18-Jun-08	<1	<2	<2	<2	0.0012	
DCS-1	29-Sep-08	<1	<2	<2	<2	0.0019	

Appendix C

Summary of Historical Surface-Water Analytical Results
Encana, West Divide Creek Seep
Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-1	10-Dec-08	<1	<2	<2	<2	<0.0008	
DCS-1	17-Mar-09	<1	<2	<2	<2	<0.0008	
DCS-1	17-Mar-09	<1	<2	<2	<2	<0.0008	
DCS-1	17-Mar-09	<1	<1	<1	<1	<0.001	
DCS-1	16-Jun-09	<1	<2	<2	<2	0.0015	
DCS-1	17-Sep-09	<1	<2	<2	<2	0.0015	
DCS-1	16-Dec-09	<1	<2	<2	<2	0.0013	
DCS-1	30-Mar-10	<1	<2	<2	<2	0.00094	
DCS-1	29-Jun-10	<1	2.6	<2	<2	0.00186	
DCS-2	13-Apr-04	1.4	<2	<2	<2	0.1	
DCS-2	14-Apr-04	1.1	<2	<2	<2	0.11	
DCS-2	15-Apr-04	1.6	<2	<2	<2	0.12	
DCS-2	16-Apr-04	3.5	2.6	<2	<2	0.24	
DCS-2	17-Apr-04	3.5	2.6	<2	<2	0.28	
DCS-2	18-Apr-04	2.9	2.1	<2	<2	0.19	
DCS-2	19-Apr-04	<1	<2	<2	<2	0.034	
DCS-2	26-Apr-04	<1	<2	<2	<2	0.027	
DCS-2	29-Apr-04	<1	<2	<2	<2	0.0025	
DCS-2	03-May-04	<1	<2	<2	<2	0.007	
DCS-2	02-Jun-04	<1	<2	<2	<2	0.0027	
DCS-2	09-Jun-04	<1	<2	<2	<2	0.0028	
DCS-2	17-Jun-04	<1	<2	<2	<2	0.0023	
DCS-2	24-Jun-04	<1	<2	<2	<2	0.015	
DCS-2	30-Jun-04	<1	<2	<2	<2	0.0052	
DCS-2	08-Jul-04	<1	<2	<2	<2	0.0064	
DCS-2	15-Jul-04	<1	<2	<2	<2	0.0065	
DCS-2	22-Jul-04	<1	<2	<2	<2	0.0077	
DCS-2	29-Jul-04	<1	<2	<2	<2	0.0074	
DCS-2	03-Aug-04	<1	<2	<2	<2	0.011	
DCS-2	11-Aug-04	<1	<2	<2	<2	0.014	
DCS-2	17-Aug-04	1.9	<2	<2	<2	0.012	
DCS-2	14-Sep-04	<1	<2	<2	<2	0.013	
DCS-2	12-Oct-04	4.3	<2	<2	<2	0.36	
DCS-2	12-Oct-04	4.1	<2	<2	<2	0.36	
DCS-2	12-Oct-04	3.6	<2	<2	NA	0.18	
DCS-2	26-Oct-04	2.9	<2	<2	<2	0.29	
DCS-2	27-Oct-04	2.2	<2	<2	<2	0.18	
DCS-2	28-Oct-04	2.5	<2	<2	<2	0.28	
DCS-2	29-Oct-04	2.4	<2	<2	<2	0.25	
DCS-2	30-Oct-04	3.2	<2	<2	<2	0.28	
DCS-2	31-Oct-04	1.3	<2	<2	<2	0.18	

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Summary of Historical Surface-Water Analytical Results
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Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-2	01-Nov-04	3.5	<2	<2	<2	0.33	
DCS-2	02-Nov-04	4.1	<2	<2	<2	0.59	
DCS-2	03-Nov-04	3.3	<2	<2	<2	0.32	
DCS-2	04-Nov-04	4.4	<2	<2	<2	0.61	
DCS-2	05-Nov-04	**5.9**	<2	<2	<2	0.56	
DCS-2	06-Nov-04	4.4	<2	<2	<2	0.46	
DCS-2	07-Nov-04	4.2	<2	<2	<2	0.44	
DCS-2	08-Nov-04	3	<2	<2	<2	0.18	
DCS-2	09-Nov-04	3.7	<2	<2	<2	0.29	
DCS-2	10-Nov-04	4.5	<2	<2	<2	0.37	
DCS-2	11-Nov-04	3.3	<2	<2	<2	0.28	
DCS-2	12-Nov-04	<1	<2	<2	<2	0.3	
DCS-2	19-Nov-04	2.8	<2	<2	<2	0.3	
DCS-2	23-Nov-04	**5.1**	<2	<2	<2	0.57	
DCS-2	02-Dec-04	2.4	<2	<2	<2	0.42	
DCS-2	09-Dec-04	<1	<2	<2	<2	0.059	
DCS-2	15-Dec-04	<1	<2	<2	<2	0.035	
DCS-2	20-Dec-04	**360**	130	16	NA	12	
DCS-2	23-Dec-04	<1	<2	<2	<2	0.018	
DCS-2	06-Jan-05	<1	<2	<2	<2	0.0055	
DCS-2	10-Jan-05	<1	<2	<2	<2	0.041	
DCS-2	20-Jan-05	<1	<2	<2	<2	0.0031	
DCS-2	26-Jan-05	<1	<2	<2	<2	0.0035	
DCS-2	04-Feb-05	<1	<2	<2	<2	0.0038	
DCS-2	07-Feb-05	<1	<2	<2	<2	0.0035	
DCS-2	16-Feb-05	<1	<2	<2	<2	0.0045	0.003
DCS-2	24-Feb-05	<1	<2	<2	<2	0.0038	
DCS-2	03-Mar-05	<1	<2	<2	<2	0.003	
DCS-2	07-Mar-05	<1	<2	<2	<2	0.0048	
DCS-2	18-Mar-05	<1	<2	<2	<2	0.0035	
DCS-2	23-Mar-05	<1	<2	<2	<2	0.056	
DCS-2	29-Mar-05	<1	<2	<2	<2	0.0019	
DCS-2	07-Apr-05	1	<2	<2	<2	0.064	
DCS-2	11-Apr-05	2	<2	<2	<2	0.11	
DCS-2	20-Apr-05	<1	<2	<2	<2	<0.0008	
DCS-2	27-Apr-05	<1	<2	<2	<2	0.00088	
DCS-2	05-May-05	<1	<2	<2	<2	<0.0008	
DCS-2	09-May-05	<1	<2	<2	<2	0.0084	
DCS-2	09-May-05	<1	<2	<2	<2	0.0098	
DCS-2	18-May-05	<1	<2	<2	<2	0.001	
DCS-2	25-May-05	<1	<2	<2	<2	0.0018	
DCS-2	02-Jun-05	<1	<2	<2	<2	0.0023	

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Summary of Historical Surface-Water Analytical Results
Encana, West Divide Creek Seep
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Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-2	08-Jun-05	<1	<2	<2	<2	0.003	
DCS-2	15-Jun-05	<1	<2	<2	<2	0.0027	
DCS-2	21-Jun-05	<1	<2	<2	<2	0.0013	
DCS-2	30-Jun-05	<1	<2	<2	<2	0.0015	
DCS-2	07-Jul-05	<1	<2	<2	<2	0.0023	
DCS-2	11-Jul-05	<1	<2	<2	<2	0.0021	
DCS-2	21-Jul-05	<1	<2	<2	<2	0.0036	
DCS-2	27-Jul-05	<1	<2	<2	<2	0.0023	
DCS-2	08-Aug-05	<1	<2	<2	<2	0.0052	
DCS-2	16-Aug-05	<1	<2	<2	<2	0.006	
DCS-2	24-Aug-05	<1	<2	<2	<2	0.0044	
DCS-2	02-Sep-05	<1	<2	<2	<2	0.01	
DCS-2	09-Sep-05	<1	<2	<2	<2	0.014	
DCS-2	13-Sep-05	<1	<2	<2	<2	0.0063	
DCS-2	22-Sep-05	<1	<2	<2	<2	0.0012	
DCS-2	29-Sep-05	<1	<2	<2	<2	0.0014	
DCS-2	06-Oct-05	<1	<2	<2	<2	0.048	
DCS-2	10-Oct-05	<1	<2	<2	<2	0.012	
DCS-2	20-Oct-05	<1	<2	<2	<2	0.043	
DCS-2	27-Oct-05	<1	<2	<2	<2	0.051	
DCS-2	07-Nov-05	<1	<2	<2	<2	0.0022	
DCS-2	17-Nov-05	<1	<2	<2	<2	0.0038	
DCS-2	22-Nov-05	<1	<2	<2	<2	0.0096	
DCS-2	29-Nov-05	<1	<2	<2	<2	0.015	
DCS-2	06-Dec-05	<1	<2	<2	<2	0.005	
DCS-2	14-Dec-05	<1	<2	<2	<2	0.065	
DCS-2	21-Dec-05	<1	<2	<2	<2	0.0062	
DCS-2	29-Dec-05	<1	<2	<2	<2	0.0052	
DCS-2	05-Jan-06	<1	<2	<2	<2	0.0046	
DCS-2	09-Jan-06	<1	<2	<2	<2	0.0035	
DCS-2	18-Jan-06	<1	<2	<2	<2	0.01	
DCS-2	24-Jan-06	<1	<2	<2	<2	0.0098	
DCS-2	01-Feb-06	<1	<2	<2	<2	0.0049	
DCS-2	09-Feb-06	<0.5	<1	<1	<1	0.028	
DCS-2	13-Feb-06	<0.5	<1	<1	<1	-999.9	
DCS-2	22-Feb-06	<1	<2	<2	<2	0.0039	
DCS-2	01-Mar-06	<1	<2	<2	<2	<0.0008	
DCS-2	09-Mar-06	<1	<2	<2	<2	0.0021	
DCS-2	14-Mar-06	<1	<2	<2	<2	0.0014	
DCS-2	22-Mar-06	<1	<2	<2	<2	0.0052	
DCS-2	30-Mar-06	<1	<2	<2	<2	0.0012	
DCS-2	05-Apr-06	<1	<2	<2	<2	<0.0008	

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Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-2	10-Apr-06	<0.25	<0.25	<0.25	<0.25	0.00061	
DCS-2	10-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-2	20-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-2	27-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-2	04-May-06	<1	<2	<2	<2	<0.0008	
DCS-2	09-May-06	<1	<2	<2	<2	<0.0008	
DCS-2	13-Jun-06	<1	<2	<2	<2	0.019	
DCS-2	05-Sep-06	<1	<5	<2	<2	0.0054	0.000
DCS-2	05-Sep-06	<0.25	<0.25	<0.25	<0.25	0.00269	
DCS-2	04-Dec-06	<1	<5	<2	<2	0.014	0.007
DCS-2	12-Mar-07	<1	<5	<2	<2	0.0735	
DCS-2	12-Mar-07	<1	<5	<2	<2	0.072	0.042
DCS-2	12-Mar-07	<1	<5	<2	<2	0.11	
DCS-2	21-Jun-07	<1	<2	<2	<2	0.0019	
DCS-2	21-Jun-07	<0.25	<0.25	<0.25	<0.25	0.991	
DCS-2	13-Sep-07	<1	<2	<2	<2	0.02	
DCS-2	17-Dec-07	<1	<2	<2	<2	0.0018	
DCS-2	03-Mar-08	<1	<2	<2	<2	0.00096	
DCS-2	03-Mar-08	<1	<2	<2	<2	0.0011	0.000
DCS-2	03-Mar-08	<0.5	<0.5	<0.5	<0.5	0.000488	
DCS-2	18-Jun-08	<1	<2	<2	<2	0.0013	<0.0013
DCS-2	29-Sep-08	<1	<2	<2	<2	0.0059	<0.0059
DCS-2	10-Dec-08	<1	<2	<2	<2	0.0022	<0.0008
DCS-2	17-Mar-09	<1	<2	<2	<2	<0.0008	<0.0008
DCS-2	16-Jun-09	<1	<2	<2	<2	0.0017	<0.0008
DCS-2	17-Sep-09	<1	<2	<2	<2	0.0029	<0.0008
DCS-2	16-Dec-09	<1	<2	<2	<2	0.0032	0.002
DCS-2	30-Mar-10	<1	<2	<2	<2	0.0013	<0.0008
DCS-2	29-Jun-10	<1	<2	<2	<2	0.0013	
DCS-3	03-Nov-05	<1	<2	<2	<2	0.0035	
DCS-3	13-Apr-04	3.1	2.6	<2	<2	0.22	
DCS-3	14-Apr-04	2.3	<2	<2	<2	0.15	
DCS-3	15-Apr-04	**6.6**	5.2	<2	<2	0.35	
DCS-3	16-Apr-04	**5.7**	4.2	<2	<2	0.38	
DCS-3	16-Apr-04	**5.8**	4.2	<2	<2	0.33	
DCS-3	17-Apr-04	**9.1**	7	<2	<2	0.46	
DCS-3	18-Apr-04	**6.4**	4.7	<2	<2	0.4	
DCS-3	19-Apr-04	1.4	<2	<2	<2	0.098	
DCS-3	26-Apr-04	<1	<2	<2	<2	0.081	
DCS-3	29-Apr-04	<1	<2	<2	<2	0.018	
DCS-3	03-May-04	<1	<2	<2	<2	0.027	

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Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-3	26-May-04	<1	<2	<2	<2	0.023	
DCS-3	02-Jun-04	<1	<2	<2	<2	0.014	
DCS-3	09-Jun-04	<1	<2	<2	<2	0.019	
DCS-3	17-Jun-04	<1	<2	<2	<2	0.013	
DCS-3	24-Jun-04	<1	<2	<2	<2	0.0029	
DCS-3	30-Jun-04	<1	<2	<2	<2	0.02	
DCS-3	08-Jul-04	<1	<2	<2	<2	0.033	
DCS-3	15-Jul-04	<1	<2	<2	<2	0.041	
DCS-3	22-Jul-04	<1	<2	<2	<2	0.048	
DCS-3	29-Jul-04	<1	<2	<2	<2	0.046	
DCS-3	03-Aug-04	<1	<2	<2	<2	0.066	
DCS-3	11-Aug-04	<1	<2	<2	<2	0.072	
DCS-3	17-Aug-04	<1	<2	<2	<2	0.083	
DCS-3	14-Sep-04	<1	<2	<2	<2	0.084	0.049
DCS-3	12-Oct-04	**6.2**	<2	<2	<2	0.67	
DCS-3	26-Oct-04	**5.8**	<2	<2	<2	0.64	
DCS-3	27-Oct-04	**5.3**	<2	<2	<2	0.56	
DCS-3	28-Oct-04	4.4	<2	<2	<2	0.48	
DCS-3	29-Oct-04	4.3	<2	<2	<2	0.43	
DCS-3	30-Oct-04	<1	<2	<2	<2	0.59	
DCS-3	31-Oct-04	**6.3**	<2	<2	<2	0.58	
DCS-3	01-Nov-04	**5.5**	<2	<2	<2	0.62	
DCS-3	02-Nov-04	**6.5**	<2	<2	<2	1.2	
DCS-3	03-Nov-04	**5.7**	<2	<2	<2	0.53	
DCS-3	04-Nov-04	**5.4**	<2	<2	<2	0.74	
DCS-3	05-Nov-04	**9.7**	<2	<2	<2	0.86	
DCS-3	06-Nov-04	4.9	<2	<2	<2	0.71	
DCS-3	07-Nov-04	3.9	<2	<2	<2	0.6	
DCS-3	08-Nov-04	**5.1**	<2	<2	<2	0.39	
DCS-3	09-Nov-04	**5.7**	<2	<2	<2	0.58	
DCS-3	10-Nov-04	**5.4**	<2	<2	<2	0.57	
DCS-3	11-Nov-04	**7.1**	<2	<2	<2	0.63	
DCS-3	12-Nov-04	1.2	<2	<2	<2	0.77	
DCS-3	19-Nov-04	5.9	<2	<2	<2	0.74	
DCS-3	23-Nov-04	**9.2**	<2	<2	<2	0.98	
DCS-3	02-Dec-04	**12**	<2	<2	<2	1.5	
DCS-3	09-Dec-04	<0.5	<5	<0.5	NA	0.058	
DCS-3	09-Dec-04	<1	<2	<2	<2	0.079	
DCS-3	09-Dec-04	<1	<2	<2	<2	0.077	
DCS-3	15-Dec-04	<1	<2	<2	<2	0.006	
DCS-3	20-Dec-04	<1	<2	<2	<2	0.0052	
DCS-3	23-Dec-04	<1	<2	<2	<2	0.03	

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Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-3	06-Jan-05	<1	<2	<2	<2	0.039	
DCS-3	10-Jan-05	<1	<2	<2	<2	0.088	0.045
DCS-3	20-Jan-05	<1	<2	<2	<2	0.022	
DCS-3	26-Jan-05	<1	<2	<2	<2	0.018	
DCS-3	04-Feb-05	<1	<2	<2	<2	0.025	
DCS-3	07-Feb-05	<1	<2	<2	<2	0.02	
DCS-3	16-Feb-05	<1	<2	<2	<2	0.025	0.020
DCS-3	24-Feb-05	<1	<2	<2	<2	0.016	
DCS-3	03-Mar-05	<1	<2	<2	<2	0.014	
DCS-3	07-Mar-05	<1	<2	<2	<2	0.025	
DCS-3	18-Mar-05	<1	<2	<2	<2	0.023	
DCS-3	23-Mar-05	2.1	<2	<2	<2	0.13	
DCS-3	29-Mar-05	<1	<2	<2	<2	0.0089	
DCS-3	07-Apr-05	1.9	<2	<2	<2	0.17	
DCS-3	11-Apr-05	3.5	<2	<2	<2	0.29	
DCS-3	20-Apr-05	<1	<2	<2	<2	<0.0008	
DCS-3	27-Apr-05	<1	<2	<2	<2	0.0026	
DCS-3	05-May-05	<1	<2	<2	<2	0.0028	
DCS-3	09-May-05	<1	<2	<2	<2	0.015	0.002
DCS-3	18-May-05	<1	<2	<2	<2	0.00083	
DCS-3	25-May-05	<1	<2	<2	<2	0.00082	
DCS-3	02-Jun-05	<1	<2	<2	<2	0.0019	
DCS-3	08-Jun-05	<1	<2	<2	<2	0.0037	
DCS-3	08-Jun-05	<0.5	<5	<0.5	NA	<0.01	
DCS-3	08-Jun-05	<1	<2	<2	<2	0.0035	
DCS-3	15-Jun-05	<1	<2	<2	<2	0.0026	
DCS-3	21-Jun-05	<1	<2	<2	<2	0.0013	
DCS-3	30-Jun-05	<1	<2	<2	<2	0.0014	
DCS-3	07-Jul-05	<1	<2	<2	<2	0.0091	
DCS-3	11-Jul-05	<1	<2	<2	<2	0.0069	
DCS-3	11-Jul-05	<0.5	<5	0.53	NA	0.017	
DCS-3	11-Jul-05	<1	<2	<2	<2	0.006	
DCS-3	21-Jul-05	<1	<2	<2	<2	0.017	
DCS-3	27-Jul-05	<1	<2	<2	<2	0.0087	
DCS-3	03-Aug-05	<1	<2	<2	<2	0.016	
DCS-3	08-Aug-05	<1	<2	<2	<2	0.017	
DCS-3	16-Aug-05	<1	<2	<2	<2	0.017	
DCS-3	24-Aug-05	<1	<2	<2	<2	0.014	
DCS-3	02-Sep-05	<1	<2	<2	<2	0.026	
DCS-3	09-Sep-05	<1	<2	<2	<2	0.015	
DCS-3	13-Sep-05	<1	<2	<2	<2	0.017	0.012
DCS-3	22-Sep-05	<1	<2	<2	<2	0.0035	

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Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-3	29-Sep-05	<1	<2	<2	<2	0.003	
DCS-3	06-Oct-05	<1	<2	<2	<2	0.093	
DCS-3	10-Oct-05	<1	<2	<2	<2	0.015	
DCS-3	20-Oct-05	<1	<2	<2	<2	0.048	
DCS-3	27-Oct-05	<1	<2	<2	<2	0.068	
DCS-3	03-Nov-05	<1	<2	<2	<2	0.011	
DCS-3	07-Nov-05	<1	<2	<2	<2	0.0069	
DCS-3	17-Nov-05	<1	<2	<2	<2	0.0084	
DCS-3	22-Nov-05	<1	<2	<2	<2	0.035	
DCS-3	29-Nov-05	<1	<2	<2	<2	0.048	
DCS-3	06-Dec-05	<1	<2	<2	<2	0.0024	
DCS-3	14-Dec-05	<1	<2	<2	<2	0.061	
DCS-3	21-Dec-05	<1	<2	<2	<2	0.014	
DCS-3	29-Dec-05	<1	<2	<2	<2	0.014	
DCS-3	05-Jan-06	<1	<2	<2	<2	0.011	
DCS-3	09-Jan-06	<1	<2	<2	<2	0.019	0.019
DCS-3	18-Jan-06	<1	<2	<2	<2	0.02	
DCS-3	24-Jan-06	<1	<2	<2	<2	0.04	
DCS-3	01-Feb-06	<1	<2	<2	<2	0.023	
DCS-3	09-Feb-06	<0.5	<1	<1	<1	<0.002	
DCS-3	13-Feb-06	<0.5	<1	<1	<1	0.028	
DCS-3	22-Feb-06	<1	<2	<2	<2	0.015	
DCS-3	01-Mar-06	<1	<2	<2	<2	0.0011	
DCS-3	09-Mar-06	<1	<2	<2	<2	0.0055	
DCS-3	14-Mar-06	<1	<2	<2	<2	0.0028	
DCS-3	22-Mar-06	<1	<2	<2	<2	0.01	
DCS-3	30-Mar-06	<1	<2	<2	<2	0.0011	
DCS-3	05-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-3	10-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-3	20-Apr-06	<1	<2	<2	<2	0.0005	
DCS-3	27-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-3	04-May-06	<1	<2	<2	<2	<0.0008	
DCS-3	09-May-06	<1	<2	<2	<2	<0.0008	0.000
DCS-3	09-May-06	<0.5	<0.5	<0.5	<0.5	0.000849	
DCS-3	09-May-06	<1	<2	<2	<2	<0.0008	
DCS-3	13-Jun-06	<1	<2	<2	<2	0.005	
DCS-3	05-Sep-06	<1	<5	<2	<2	0.015	0.009
DCS-3	04-Dec-06	<1	<5	<2	<2	0.0061	0.000
DCS-3	12-Mar-07	<1	<5	<2	<2	0.0081	0.000
DCS-3	21-Jun-07	<1	<2	<2	<2	0.00082	
DCS-3	13-Sep-07	<1	<2	<2	<2	0.0025	
DCS-3	17-Dec-07	<0.5	<5	<0.5	<2	0.00371	

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Summary of Historical Surface-Water Analytical Results
Encana, West Divide Creek Seep
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Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-3	17-Dec-07	<1	<2	<2	<2	0.0032	
DCS-3	03-Mar-08	<1	<2	<2	<2	0.0021	0.000
DCS-3	18-Jun-08	<1	<2	<2	<2	0.001	<0.001
DCS-3	29-Sep-08	<1	<2	<2	<2	0.015	0.008
DCS-3	10-Dec-08	<1	<2	<2	<2	0.067	<0.0008
DCS-3	17-Mar-09	<1	<2	<2	<2	<0.0008	<0.0008
DCS-3	16-Jun-09	<1	<2	<2	<2	0.0014	
DCS-3	16-Jun-09	<1	<2	<2	<2	0.0014	
DCS-3	17-Sep-09	<1	<2	<2	<2	0.0017	
DCS-3	16-Dec-09	<1	<2	<2	<2	0.0016	0.001
DCS-3	30-Mar-10	<1	<2	<2	<2	0.001	
DCS-3	29-Jun-10	<1	<2	<2	<2	0.001	
DCS-4	13-Apr-04	<1	<2	<2	<2	0.11	
DCS-4	14-Apr-04	<1	<2	<2	<2	0.09	
DCS-4	15-Apr-04	1.7	<2	<2	<2	0.15	
DCS-4	16-Apr-04	1.4	<2	<2	<2	0.14	
DCS-4	17-Apr-04	2	<2	<2	<2	0.18	
DCS-4	18-Apr-04	1.7	<2	<2	<2	0.17	
DCS-4	19-Apr-04	<1	<2	<2	<2	0.058	
DCS-4	26-Apr-04	<1	<2	<2	<2	0.043	
DCS-4	29-Apr-04	<1	<2	<2	<2	0.012	
DCS-4	03-May-04	<1	<2	<2	<2	0.013	
DCS-4	02-Jun-04	<1	<2	<2	<2	0.006	
DCS-4	08-Jul-04	<1	<2	<2	<2	0.014	
DCS-4	03-Aug-04	<1	<2	<2	<2	0.022	
DCS-4	14-Sep-04	<1	<2	<2	<2	0.027	
DCS-4	12-Oct-04	1	<2	<2	<2	0.13	
DCS-4	26-Oct-04	1.1	<2	<2	<2	0.15	
DCS-4	27-Oct-04	<1	<2	<2	<2	0.11	
DCS-4	28-Oct-04	<1	<2	<2	<2	0.13	
DCS-4	29-Oct-04	1.1	<2	<2	<2	0.13	
DCS-4	30-Oct-04	1.3	<2	<2	<2	0.15	
DCS-4	31-Oct-04	1.2	<2	<2	<2	0.12	
DCS-4	01-Nov-04	1.2	<2	<2	<2	0.13	
DCS-4	02-Nov-04	1.9	<2	<2	<2	0.3	
DCS-4	03-Nov-04	1.3	<2	<2	<2	0.16	
DCS-4	04-Nov-04	1.7	<2	<2	<2	0.21	
DCS-4	05-Nov-04	1.5	<2	<2	<2	0.15	
DCS-4	06-Nov-04	1.3	<2	<2	<2	0.17	
DCS-4	07-Nov-04	1.3	<2	<2	<2	0.16	
DCS-4	08-Nov-04	1	<2	<2	<2	0.077	

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Summary of Historical Surface-Water Analytical Results
Encana, West Divide Creek Seep
Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-4	09-Nov-04	1	<2	<2	<2	0.11	
DCS-4	10-Nov-04	<1	<2	<2	<2	0.1	
DCS-4	11-Nov-04	1	<2	<2	<2	0.1	
DCS-4	12-Nov-04	**9.8**	<2	<2	<2	0.12	
DCS-4	19-Nov-04	1.1	<2	<2	<2	0.14	
DCS-4	23-Nov-04	1.8	<2	<2	<2	0.26	
DCS-4	02-Dec-04	3	<2	<2	<2	0.5	
DCS-4	09-Dec-04	<1	<2	<2	<2	0.029	
DCS-4	15-Dec-04	<1	<2	<2	<2	0.016	
DCS-4	20-Dec-04	<1	<2	<2	<2	0.0023	
DCS-4	23-Dec-04	<1	<2	<2	<2	0.0097	
DCS-4	06-Jan-05	<1	<2	<2	<2	0.019	
DCS-4	10-Jan-05	<1	<2	<2	<2	0.0046	
DCS-4	20-Jan-05	<1	<2	<2	<2	0.0091	
DCS-4	26-Jan-05	<1	<2	<2	<2	0.01	
DCS-4	04-Feb-05	<1	<2	<2	<2	0.0087	
DCS-4	07-Feb-05	<0.5	<5	<0.5	NA	<0.01	
DCS-4	07-Feb-05	<1	<2	<2	<2	0.0096	
DCS-4	07-Feb-05	<1	<2	<2	<2	0.0096	
DCS-4	16-Feb-05	<1	<2	<2	<2	0.01	
DCS-4	24-Feb-05	<1	<2	<2	<2	0.016	
DCS-4	03-Mar-05	<1	<2	<2	<2	0.0069	
DCS-4	07-Mar-05	<1	<2	<2	<2	0.011	
DCS-4	18-Mar-05	<1	<2	<2	<2	0.0075	
DCS-4	23-Mar-05	<1	<2	<2	<2	0.033	
DCS-4	29-Mar-05	<1	<2	<2	<2	0.0042	
DCS-4	07-Apr-05	<1	<2	<2	<2	0.027	
DCS-4	11-Apr-05	<1	<2	<2	<2	0.057	
DCS-4	20-Apr-05	<1	<2	<2	<2	<0.0008	
DCS-4	27-Apr-05	<1	<2	<2	<2	0.0014	
DCS-4	05-May-05	<1	<2	<2	<2	0.0016	
DCS-4	09-May-05	<1	<2	<2	<2	0.00096	
DCS-4	18-May-05	<1	<2	<2	<2	0.0012	
DCS-4	25-May-05	<1	<2	<2	<2	0.0012	
DCS-4	02-Jun-05	<1	<2	<2	<2	0.003	
DCS-4	08-Jun-05	<1	<2	<2	<2	0.0054	
DCS-4	15-Jun-05	<1	<2	<2	<2	0.0033	
DCS-4	21-Jun-05	<1	<2	<2	<2	0.0022	
DCS-4	30-Jun-05	<1	<2	<2	<2	0.0027	
DCS-4	07-Jul-05	<1	<2	<2	<2	0.0042	
DCS-4	11-Jul-05	<1	<2	<2	<2	0.0041	
DCS-4	21-Jul-05	<1	<2	<2	<2	0.0075	

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Summary of Historical Surface-Water Analytical Results
Encana, West Divide Creek Seep
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Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-4	27-Jul-05	<1	<2	<2	<2	0.0035	
DCS-4	03-Aug-05	<1	<2	<2	<2	0.0077	
DCS-4	08-Aug-05	<1	<2	<2	<2	0.0077	
DCS-4	16-Aug-05	<1	<2	<2	<2	0.0089	
DCS-4	24-Aug-05	<1	<2	<2	<2	0.0068	
DCS-4	02-Sep-05	<1	<2	<2	<2	0.0089	
DCS-4	09-Sep-05	<1	<2	<2	<2	0.0072	
DCS-4	13-Sep-05	<1	<2	<2	<2	0.0084	
DCS-4	22-Sep-05	<1	<2	<2	<2	0.0013	
DCS-4	29-Sep-05	<1	<2	<2	<2	0.0019	
DCS-4	06-Oct-05	<1	<2	<2	<2	0.035	
DCS-4	10-Oct-05	<1	<2	<2	<2	0.0085	
DCS-4	20-Oct-05	<1	<2	<2	<2	0.022	
DCS-4	27-Oct-05	<1	<2	<2	<2	0.025	
DCS-4	03-Nov-05	<1	<2	<2	<2	0.0063	
DCS-4	07-Nov-05	<1	<2	<2	<2	0.0044	
DCS-4	07-Nov-05	<1	<2	<2	<2	0.0034	
DCS-4	07-Nov-05	<0.5	<5	<0.5	NA	<0.01	
DCS-4	17-Nov-05	<1	<2	<2	<2	0.0049	
DCS-4	22-Nov-05	<1	<2	<2	<2	0.014	
DCS-4	29-Nov-05	<1	<2	<2	<2	0.024	
DCS-4	06-Dec-05	<1	<2	<2	<2	0.012	
DCS-4	14-Dec-05	<1	<2	<2	<2	0.011	
DCS-4	21-Dec-05	<1	<2	<2	<2	0.0038	
DCS-4	29-Dec-05	<1	<2	<2	<2	0.0038	
DCS-4	05-Jan-06	<1	<2	<2	<2	0.0042	
DCS-4	09-Jan-06	<0.5	<1	<2	<1	0.005	
DCS-4	09-Jan-06	<1	<2	<2	<2	0.0064	
DCS-4	09-Jan-06	<1	<2	<2	<2	0.0064	
DCS-4	18-Jan-06	<1	<2	<2	<2	0.0057	
DCS-4	24-Jan-06	<1	<2	<2	<2	0.019	
DCS-4	01-Feb-06	<1	<2	<2	<2	0.0059	
DCS-4	09-Feb-06	<0.5	<1	<1	<1	0.015	
DCS-4	13-Feb-06	<0.5	<1	<1	<1	<0.002	
DCS-4	22-Feb-06	<1	<2	<2	<2	0.0054	
DCS-4	01-Mar-06	<1	<2	<2	<2	0.0013	
DCS-4	09-Mar-06	<1	<2	<2	<2	0.0032	
DCS-4	14-Mar-06	<1	<2	<2	<2	0.004	
DCS-4	22-Mar-06	<1	<2	<2	<2	0.008	
DCS-4	30-Mar-06	<1	<2	<2	<2	0.0018	
DCS-4	05-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-4	10-Apr-06	<1	<2	<2	<2	<0.0008	

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Summary of Historical Surface-Water Analytical Results
Encana, West Divide Creek Seep
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Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-4	20-Apr-06	<1	<2	<2	<2	0.00078	
DCS-4	27-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-4	04-May-06	<1	<2	<2	<2	<0.0008	
DCS-4	09-May-06	<1	<2	<2	<2	0.00081	
DCS-4	13-Jun-06	<1	<2	<2	<2	0.0038	
DCS-4	05-Sep-06	<1	<5	<2	<2	0.0096	
DCS-4	04-Dec-06	<1	<5	<2	<2	0.014	
DCS-4	12-Mar-07	<1	<5	<2	<2	0.0014	
DCS-4	21-Jun-07	<1	<2	<2	<2	0.0014	
DCS-4	13-Sep-07	<1	<2	<2	<2	0.0058	
DCS-4	17-Dec-07	<1	<2	<2	<2	0.0078	
DCS-4	03-Mar-08	<1	<2	<2	<2	0.0022	
DCS-4	18-Jun-08	<1	<2	<2	<2	0.0028	
DCS-4	29-Sep-08	<1	<2	<2	<2	0.0098	
DCS-4	29-Sep-08	<1	<2	<2	<2	0.0098	
DCS-4	10-Dec-08	<1	<2	<2	<2	0.006	
DCS-4	17-Mar-09	<1	<2	<2	<2	0.00096	
DCS-4	16-Jun-09	<1	<2	<2	<2	0.0029	
DCS-4	17-Sep-09	<1	<2	<2	<2	0.0042	
DCS-4	16-Dec-09	<1	<2	<2	<2	0.0063	
DCS-4	30-Mar-10	<1	<2	<2	<2	0.00263	
DCS-4	29-Jun-10	<1	<2	<2	<2	0.00165	
DCS-5	13-Apr-04	<1	<2	<2	<2	0.11	
DCS-5	14-Apr-04	<1	<2	<2	<2	0.086	
DCS-5	15-Apr-04	1.3	<2	<2	<2	0.13	
DCS-5	16-Apr-04	<1	<2	<2	<2	0.13	
DCS-5	17-Apr-04	1.3	<2	<2	<2	0.15	
DCS-5	18-Apr-04	1.2	<2	<2	<2	0.15	
DCS-5	19-Apr-04	<1	<2	<2	<2	0.057	
DCS-5	26-Apr-04	<1	<2	<2	<2	0.046	
DCS-5	29-Apr-04	<1	<2	<2	<2	0.014	
DCS-5	03-May-04	<1	<2	<2	<2	0.018	
DCS-5	26-May-04	<1	<2	<2	<2	0.015	
DCS-5	02-Jun-04	<1	<2	<2	<2	0.012	
DCS-5	08-Jul-04	<1	<2	<2	<2	0.016	
DCS-5	03-Aug-04	<1	<2	<2	<2	0.014	
DCS-5	14-Sep-04	<1	<2	<2	<2	0.017	
DCS-5	12-Oct-04	<1	<2	<2	<2	0.044	
DCS-5	26-Oct-04	<1	<2	<2	<2	0.055	
DCS-5	27-Oct-04	<1	<2	<2	<2	0.035	
DCS-5	28-Oct-04	<1	<2	<2	<2	0.028	

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Summary of Historical Surface-Water Analytical Results
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Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-5	29-Oct-04	<1	<2	<2	<2	0.053	
DCS-5	30-Oct-04	<1	<2	<2	<2	0.047	
DCS-5	31-Oct-04	<1	<2	<2	<2	0.052	
DCS-5	01-Nov-04	<1	<2	<2	<2	0.049	
DCS-5	02-Nov-04	<1	<2	<2	<2	0.12	
DCS-5	03-Nov-04	<1	<2	<2	<2	0.072	
DCS-5	04-Nov-04	<1	<2	<2	<2	0.088	
DCS-5	05-Nov-04	<1	<2	<2	<2	0.064	
DCS-5	06-Nov-04	<1	<2	<2	<2	0.06	
DCS-5	07-Nov-04	<1	<2	<2	<2	0.054	
DCS-5	08-Nov-04	<1	<2	<2	<2	0.026	
DCS-5	09-Nov-04	<1	<2	<2	<2	0.35	
DCS-5	10-Nov-04	<1	<2	<2	<2	0.035	
DCS-5	11-Nov-04	<1	<2	<2	<2	0.039	
DCS-5	12-Nov-04	3.6	<2	<2	<2	0.048	
DCS-5	19-Nov-04	<1	<2	<2	<2	0.056	
DCS-5	23-Nov-04	<1	<2	<2	<2	0.11	
DCS-5	02-Dec-04	1.1	<2	<2	<2	0.18	
DCS-5	09-Dec-04	<1	<2	<2	<2	0.029	
DCS-5	15-Dec-04	<1	<2	<2	<2	0.017	
DCS-5	20-Dec-04	<1	<2	<2	<2	0.0034	
DCS-5	23-Dec-04	<1	<2	<2	<2	0.026	
DCS-5	06-Jan-05	<1	<2	<2	<2	0.02	
DCS-5	10-Jan-05	<1	<2	<2	<2	0.012	
DCS-5	20-Jan-05	<1	<2	<2	<2	0.0098	
DCS-5	26-Jan-05	<1	<2	<2	<2	0.013	
DCS-5	04-Feb-05	<1	<2	<2	<2	0.011	
DCS-5	07-Feb-05	<1	<2	<2	<2	0.012	
DCS-5	16-Feb-05	<1	<2	<2	<2	0.011	
DCS-5	24-Feb-05	<1	<2	<2	<2	0.014	
DCS-5	03-Mar-05	<1	<2	<2	<2	0.0086	
DCS-5	07-Mar-05	<1	<2	<2	<2	0.012	
DCS-5	18-Mar-05	<1	<2	<2	<2	0.0099	
DCS-5	23-Mar-05	<1	<2	<2	<2	0.021	
DCS-5	29-Mar-05	<1	<2	<2	<2	0.006	
DCS-5	07-Apr-05	<1	<2	<2	<2	0.014	
DCS-5	11-Apr-05	<1	<2	<2	<2	0.044	
DCS-5	20-Apr-05	<1	<2	<2	<2	0.00091	
DCS-5	27-Apr-05	<1	<2	<2	<2	0.0037	
DCS-5	05-May-05	<1	<2	<2	<2	0.0046	
DCS-5	09-May-05	<1	<2	<2	<2	0.0016	
DCS-5	18-May-05	<1	<2	<2	<2	0.0013	

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Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-5	25-May-05	<1	<2	<2	<2	0.0018	
DCS-5	02-Jun-05	<1	<2	<2	<2	0.0035	
DCS-5	08-Jun-05	<1	<2	<2	<2	0.0049	
DCS-5	15-Jun-05	<1	<2	<2	<2	0.0027	
DCS-5	21-Jun-05	<1	<2	<2	<2	0.0025	
DCS-5	30-Jun-05	<1	<2	<2	<2	0.0052	
DCS-5	07-Jul-05	<1	<2	<2	<2	0.0053	
DCS-5	11-Jul-05	<1	<2	<2	<2	0.0053	
DCS-5	21-Jul-05	<1	<2	<2	<2	0.0079	
DCS-5	27-Jul-05	<1	<2	<2	<2	0.0058	
DCS-5	03-Aug-05	<1	<2	<2	<2	0.0091	
DCS-5	08-Aug-05	<1	<2	<2	<2	0.011	
DCS-5	16-Aug-05	<1	<2	<2	<2	0.0098	
DCS-5	24-Aug-05	<1	<2	<2	<2	0.0074	
DCS-5	02-Sep-05	<1	<2	<2	<2	0.01	
DCS-5	09-Sep-05	<1	<2	<2	<2	0.009	
DCS-5	13-Sep-05	<1	<2	<2	<2	0.0076	
DCS-5	13-Sep-05	<0.5	<5	<0.5	NA	0.012	
DCS-5	13-Sep-05	<1	<2	<2	<2	0.0075	
DCS-5	22-Sep-05	<1	<2	<2	<2	0.002	
DCS-5	29-Sep-05	<1	<2	<2	<2	0.0035	
DCS-5	06-Oct-05	<1	<2	<2	<2	0.028	
DCS-5	10-Oct-05	<1	<2	<2	<2	0.015	
DCS-5	20-Oct-05	<1	<2	<2	<2	0.016	
DCS-5	27-Oct-05	<1	<2	<2	<2	0.018	
DCS-5	03-Nov-05	<1	<2	<2	<2	0.007	
DCS-5	07-Nov-05	<1	<2	<2	<2	0.005	
DCS-5	17-Nov-05	<1	<2	<2	<2	0.0068	
DCS-5	22-Nov-05	<1	<2	<2	<2	0.013	
DCS-5	29-Nov-05	<1	<2	<2	<2	0.023	
DCS-5	06-Dec-05	<1	<2	<2	<2	0.015	
DCS-5	14-Dec-05	<1	<2	<2	<2	0.012	
DCS-5	21-Dec-05	<1	<2	<2	<2	0.0055	
DCS-5	29-Dec-05	<1	<2	<2	<2	0.0048	
DCS-5	05-Jan-06	<1	<2	<2	<2	0.0068	
DCS-5	09-Jan-06	<1	<2	<2	<2	0.0072	
DCS-5	18-Jan-06	<1	<2	<2	<2	0.0074	
DCS-5	24-Jan-06	<1	<2	<2	<2	0.021	
DCS-5	01-Feb-06	<1	<2	<2	<2	0.007	
DCS-5	09-Feb-06	<0.5	<1	<1	<1	0.015	
DCS-5	13-Feb-06	<0.5	<1	<1	<1	<0.002	
DCS-5	13-Feb-06	<0.5	<1	<1	<1	0.009	

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Summary of Historical Surface-Water Analytical Results
Encana, West Divide Creek Seep
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Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-5	13-Feb-06	<0.5	<0.5	<0.5	<0.5	0.013	
DCS-5	22-Feb-06	<1	<2	<2	<2	0.0073	
DCS-5	01-Mar-06	<1	<2	<2	<2	0.0019	
DCS-5	09-Mar-06	<1	<2	<2	<2	0.0041	
DCS-5	14-Mar-06	<1	<2	<2	<2	0.0052	
DCS-5	22-Mar-06	<1	<2	<2	<2	0.0085	
DCS-5	30-Mar-06	<1	<2	<2	<2	0.0025	
DCS-5	05-Apr-06	<1	<2	<2	<2	0.00089	
DCS-5	10-Apr-06	<1	<2	<2	<2	0.0009	
DCS-5	20-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-5	27-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-5	04-May-06	<1	<2	<2	<2	<0.0008	
DCS-5	09-May-06	<1	<2	<2	<2	0.00097	
DCS-5	13-Jun-06	<1	<2	<2	<2	0.0045	
DCS-5	13-Jun-06	<0.5	<0.5	<0.5	<0.5	0.00445	
DCS-5	05-Sep-06	<1	<5	<2	<2	0.01	
DCS-5	04-Dec-06	<1	<5	<2	<2	0.012	
DCS-5	12-Mar-07	<1	<5	<2	<2	0.0026	
DCS-5	21-Jun-07	<1	<2	<2	<2	0.0018	
DCS-5	13-Sep-07	<1	<2	<2	<2	0.0055	
DCS-5	17-Dec-07	<1	<2	<2	<2	0.0077	
DCS-5	04-Mar-08	<1	<2	<2	<2	0.0038	
DCS-5	18-Jun-08	<1	<2	<2	<2	0.0019	
DCS-5	29-Sep-08	<1	<2	<2	<2	0.008	
DCS-5	10-Dec-08	<1	<2	<2	<2	0.0066	
DCS-5	10-Dec-08	<1	<2	<2	<2	0.0062	
DCS-5	10-Dec-08	<1	<1	<1	<1	0.003	
DCS-5	17-Mar-09	<1	<2	<2	<2	0.0012	
DCS-5	16-Jun-09	<1	<2	<2	<2	0.0028	
DCS-5	17-Sep-09	<1	<2	<2	<2	0.0042	
DCS-5	16-Dec-09	<1	<2	<2	<2	0.006	
DCS-5	31-Mar-10	<1	<2	<2	<2	0.0013	
DCS-5	29-Jun-10	<1	<2	<2	<2	0.00176	
DCS-6	13-Apr-04	<1	<2	<2	<2	0.087	
DCS-6	14-Apr-04	<1	<2	<2	<2	0.063	
DCS-6	15-Apr-04	<1	<2	<2	<2	0.11	
DCS-6	16-Apr-04	<1	<2	<2	<2	0.083	
DCS-6	17-Apr-04	<1	<2	<2	<2	0.11	
DCS-6	18-Apr-04	<1	<2	<2	<2	0.093	
DCS-6	19-Apr-04	<1	<2	<2	<2	0.048	
DCS-6	26-Apr-04	<1	<2	<2	<2	0.035	

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Summary of Historical Surface-Water Analytical Results
Encana, West Divide Creek Seep
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Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-6	29-Apr-04	<1	<2	<2	<2	0.011	
DCS-6	29-Apr-04	<1	<2	<2	<2	0.015	
DCS-6	03-May-04	<1	<2	<2	<2	0.014	
DCS-6	02-Jun-04	<1	<2	<2	<2	0.0091	
DCS-6	08-Jul-04	<1	<2	<2	<2	0.014	
DCS-6	03-Aug-04	<1	<2	<2	<2	0.014	
DCS-6	14-Sep-04	<1	<2	<2	<2	0.031	
DCS-6	12-Oct-04	<1	<2	<2	<2	0.032	
DCS-6	26-Oct-04	<1	<2	<2	<2	0.049	
DCS-6	27-Oct-04	<1	<2	<2	<2	0.023	
DCS-6	28-Oct-04	<1	<2	<2	<2	0.06	
DCS-6	29-Oct-04	<1	<2	<2	<2	0.086	
DCS-6	30-Oct-04	<1	<2	<2	<2	0.034	
DCS-6	31-Oct-04	<1	<2	<2	<2	0.045	
DCS-6	01-Nov-04	<1	<2	<2	<2	0.24	
DCS-6	02-Nov-04	<1	<2	<2	<2	0.093	
DCS-6	03-Nov-04	<1	<2	<2	<2	0.16	
DCS-6	04-Nov-04	<1	<2	<2	<2	0.061	
DCS-6	05-Nov-04	<1	<2	<2	<2	0.039	
DCS-6	06-Nov-04	<1	<2	<2	<2	0.043	
DCS-6	07-Nov-04	<1	<2	<2	<2	0.039	
DCS-6	08-Nov-04	<1	<2	<2	<2	0.017	
DCS-6	09-Nov-04	<1	<2	<2	<2	0.034	
DCS-6	10-Nov-04	<1	<2	<2	<2	0.024	
DCS-6	11-Nov-04	<1	<2	<2	<2	0.026	
DCS-6	12-Nov-04	<1	<2	<2	<2	0.022	
DCS-6	19-Nov-04	<1	<2	<2	<2	0.035	
DCS-6	23-Nov-04	<1	<2	<2	<2	0.069	
DCS-6	02-Dec-04	1.5	<2	<2	<2	-88.8	
DCS-6	09-Dec-04	<1	<2	<2	<2	0.028	
DCS-6	15-Dec-04	<1	<2	<2	<2	0.018	
DCS-6	20-Dec-04	<1	<2	<2	<2	0.036	
DCS-6	23-Dec-04	<1	<2	<2	<2	0.021	
DCS-6	06-Jan-05	<1	<2	<2	<2	0.019	
DCS-6	10-Jan-05	<1	<2	<2	<2	0.011	
DCS-6	20-Jan-05	<1	<2	<2	<2	0.0086	
DCS-6	26-Jan-05	<1	<2	<2	<2	0.013	
DCS-6	04-Feb-05	<1	<2	<2	<2	0.0088	
DCS-6	07-Feb-05	<1	<2	<2	<2	0.0091	
DCS-6	16-Feb-05	<1	<2	<2	<2	0.011	
DCS-6	24-Feb-05	<1	<2	<2	<2	0.014	
DCS-6	03-Mar-05	<1	<2	<2	<2	0.0086	

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Summary of Historical Surface-Water Analytical Results
Encana, West Divide Creek Seep
Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-6	07-Mar-05	<1	<2	<2	<2	0.013	
DCS-6	18-Mar-05	<1	<2	<2	<2	0.01	
DCS-6	23-Mar-05	<1	<2	<2	<2	0.023	
DCS-6	29-Mar-05	<1	<2	<2	<2	0.0052	
DCS-6	07-Apr-05	<1	<2	<2	<2	0.015	
DCS-6	11-Apr-05	<1	<2	<2	<2	0.034	
DCS-6	27-Apr-05	<1	<2	<2	<2	0.003	
DCS-6	05-May-05	<1	<2	<2	<2	0.0045	
DCS-6	09-May-05	<1	<2	<2	<2	0.0022	
DCS-6	18-May-05	<1	<2	<2	<2	0.0019	
DCS-6	25-May-05	<1	<2	<2	<2	0.0025	
DCS-6	02-Jun-05	<1	<2	<2	<2	0.0031	
DCS-6	08-Jun-05	<1	<2	<2	<2	0.0049	
DCS-6	15-Jun-05	<1	<2	<2	<2	0.0044	
DCS-6	21-Jun-05	<1	<2	<2	<2	0.0027	
DCS-6	30-Jun-05	<1	<2	<2	<2	0.0036	
DCS-6	07-Jul-05	<1	<2	<2	<2	0.0068	
DCS-6	11-Jul-05	<1	<2	<2	<2	0.0064	
DCS-6	21-Jul-05	<1	<2	<2	<2	0.012	
DCS-6	27-Jul-05	<1	<2	<2	<2	0.0066	
DCS-6	03-Aug-05	<1	<2	<2	<2	0.0081	
DCS-6	08-Aug-05	<1	<2	<2	<2	0.018	
DCS-6	16-Aug-05	<1	<2	<2	<2	0.016	
DCS-6	24-Aug-05	<1	<2	<2	<2	0.013	
DCS-6	02-Sep-05	<1	<2	<2	<2	0.013	
DCS-6	09-Sep-05	<1	<2	<2	<2	0.0086	
DCS-6	13-Sep-05	<1	<2	<2	<2	0.011	
DCS-6	22-Sep-05	<1	<2	<2	<2	0.0021	
DCS-6	29-Sep-05	<1	<2	<2	<2	0.0033	
DCS-6	06-Oct-05	<1	<2	<2	<2	0.027	
DCS-6	10-Oct-05	<1	<2	<2	<2	0.014	
DCS-6	10-Oct-05	<1	<2	<2	<2	0.015	
DCS-6	10-Oct-05	<0.5	<5	<0.5	<0.5	0.019	
DCS-6	20-Oct-05	<1	<2	<2	<2	0.014	
DCS-6	27-Oct-05	<1	<2	<2	<2	0.012	
DCS-6	03-Nov-05	<1	<2	<2	<2	0.0066	
DCS-6	07-Nov-05	<1	<2	<2	<2	0.0059	
DCS-6	17-Nov-05	<1	<2	<2	<2	0.007	
DCS-6	22-Nov-05	<1	<2	<2	<2	0.013	
DCS-6	29-Nov-05	<1	<2	<2	<2	0.021	
DCS-6	06-Dec-05	<1	<2	<2	<2	0.015	
DCS-6	06-Dec-05	<1	<2	<2	<2	0.014	

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Summary of Historical Surface-Water Analytical Results
Encana, West Divide Creek Seep
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Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-6	06-Dec-05	<0.5	<5	<0.5	NA	0.014	
DCS-6	14-Dec-05	<1	<2	<2	<2	0.011	
DCS-6	21-Dec-05	<1	<2	<2	<2	0.0064	
DCS-6	29-Dec-05	<1	<2	<2	<2	0.0026	
DCS-6	05-Jan-06	<1	<2	<2	<2	0.0056	
DCS-6	09-Jan-06	<1	<2	<2	<2	0.0078	
DCS-6	18-Jan-06	<1	<2	<2	<2	0.0066	
DCS-6	24-Jan-06	<1	<2	<2	<2	0.036	
DCS-6	01-Feb-06	<1	<2	<2	<2	0.0056	
DCS-6	09-Feb-06	<0.5	<1	<1	<1	0.016	
DCS-6	13-Feb-06	<0.5	<1	<1	<1	<0.002	
DCS-6	22-Feb-06	<1	<2	<2	<2	0.0066	
DCS-6	01-Mar-06	<1	<2	<2	<2	0.0019	
DCS-6	09-Mar-06	<1	<2	<2	<2	0.0056	
DCS-6	14-Mar-06	<0.25	<0.25	<0.25	<0.25	0.0143	
DCS-6	14-Mar-06	<1	<2	<2	<2	0.012	
DCS-6	14-Mar-06	<1	<2	<2	<2	0.012	
DCS-6	22-Mar-06	<1	<2	<2	<2	0.0096	
DCS-6	30-Mar-06	<1	<2	<2	<2	0.0058	
DCS-6	05-Apr-06	<1	<2	<2	<2	0.00089	
DCS-6	10-Apr-06	<1	<2	<2	<2	0.00089	
DCS-6	20-Apr-06	<1	<2	<2	<2	0.00098	
DCS-6	27-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-6	04-May-06	<1	<2	<2	<2	0.00084	
DCS-6	09-May-06	<1	<2	<2	<2	0.00083	
DCS-6	13-Jun-06	<1	<2	<2	<2	0.0054	
DCS-6	05-Sep-06	<1	<5	<2	<2	0.013	
DCS-6	04-Dec-06	<1	<5	<2	<2	0.013	
DCS-6	12-Mar-07	<1	<5	<2	<2	0.0035	
DCS-6	21-Jun-07	<1	<2	<2	<2	0.0025	
DCS-6	13-Sep-07	<1	<2	<2	<2	NA	
DCS-6	17-Dec-07	<1	<2	<2	<2	0.0078	
DCS-6	04-Mar-08	<1	<2	<2	<2	0.0047	
DCS-6	18-Jun-08	<1	<2	<2	<2	0.0029	
DCS-6	29-Sep-08	<1	<2	<2	<2	0.011	
DCS-6	10-Dec-08	<1	<2	<2	<2	0.085	
DCS-6	17-Mar-09	<1	<2	<2	<2	0.0011	
DCS-6	16-Jun-09	<1	<2	<2	<2	0.0056	
DCS-6	17-Sep-09	<1	<2	<2	<2	0.0051	
DCS-6	16-Dec-09	<1	<2	<2	<2	0.0077	
DCS-6	31-Mar-10	<1	<2	<2	<2	0.00153	
DCS-6	29-Jun-10	<1	<2	<2	<2	0.00174	

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Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-7	09-Dec-04	<1	<2	<2	<2	0.026	
DCS-7	15-Dec-04	<1	<2	<2	<2	0.016	
DCS-7	20-Dec-04	<1	<2	<2	<2	0.031	
DCS-7	23-Dec-04	<1	<2	<2	<2	0.019	
DCS-7	06-Jan-05	<1	<2	<2	<2	0.018	
DCS-7	10-Jan-05	<1	<2	<2	<2	0.01	
DCS-7	20-Jan-05	<1	<2	<2	<2	0.0082	
DCS-7	26-Jan-05	<1	<2	<2	<2	0.012	
DCS-7	04-Feb-05	<1	<2	<2	<2	0.0087	
DCS-7	07-Feb-05	<1	<2	<2	<2	0.0092	
DCS-7	16-Feb-05	<1	<2	<2	<2	0.0094	
DCS-7	24-Feb-05	<1	<2	<2	<2	0.012	
DCS-7	03-Mar-05	<1	<2	<2	<2	0.0081	
DCS-7	07-Mar-05	<1	<2	<2	<2	0.01	
DCS-7	18-Mar-05	<1	<2	<2	<2	0.0087	
DCS-7	23-Mar-05	<1	<2	<2	<2	0.017	
DCS-7	29-Mar-05	<1	<2	<2	<2	0.0049	
DCS-7	07-Apr-05	<1	<2	<2	<2	0.0097	
DCS-7	11-Apr-05	<1	<2	<2	<2	0.033	
DCS-7	27-Apr-05	<1	<2	<2	<2	0.0027	
DCS-7	05-May-05	<1	<2	<2	<2	0.0038	
DCS-7	09-May-05	<1	<2	<2	<2	0.0021	
DCS-7	18-May-05	<1	<2	<2	<2	0.0016	
DCS-7	25-May-05	<1	<2	<2	<2	0.0018	
DCS-7	02-Jun-05	<1	<2	<2	<2	0.0031	
DCS-7	08-Jun-05	<1	<2	<2	<2	0.0041	
DCS-7	15-Jun-05	<1	<2	<2	<2	0.0027	
DCS-7	21-Jun-05	<1	<2	<2	<2	0.0027	
DCS-7	30-Jun-05	<1	<2	<2	<2	0.0036	
DCS-7	07-Jul-05	<1	<2	<2	<2	0.0054	
DCS-7	11-Jul-05	<1	<2	<2	<2	0.0051	
DCS-7	21-Jul-05	<1	<2	<2	<2	0.0082	
DCS-7	27-Jul-05	<1	<2	<2	<2	0.0053	
DCS-7	03-Aug-05	<1	<2	<2	<2	0.0074	
DCS-7	08-Aug-05	<1	<2	<2	<2	0.0099	
DCS-7	16-Aug-05	<1	<2	<2	<2	0.0098	
DCS-7	24-Aug-05	<1	<2	<2	<2	0.0085	
DCS-7	02-Sep-05	<1	<2	<2	<2	0.0085	
DCS-7	09-Sep-05	<1	<2	<2	<2	0.0074	
DCS-7	13-Sep-05	<1	<2	<2	<2	0.0079	
DCS-7	22-Sep-05	<1	<2	<2	<2	0.0021	

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Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-7	29-Sep-05	<1	<2	<2	<2	0.0034	
DCS-7	06-Oct-05	<1	<2	<2	<2	0.025	
DCS-7	10-Oct-05	<1	<2	<2	<2	0.013	
DCS-7	20-Oct-05	<1	<2	<2	<2	0.0096	
DCS-7	27-Oct-05	<1	<2	<2	<2	0.01	
DCS-7	03-Nov-05	<1	<2	<2	<2	0.0064	
DCS-7	07-Nov-05	<1	<2	<2	<2	0.0052	
DCS-7	17-Nov-05	<1	<2	<2	<2	0.0066	
DCS-7	22-Nov-05	<1	<2	<2	<2	0.012	
DCS-7	29-Nov-05	<1	<2	<2	<2	0.022	
DCS-7	06-Dec-05	<1	<2	<2	<2	0.015	
DCS-7	14-Dec-05	<1	<2	<2	<2	0.013	
DCS-7	21-Dec-05	<1	<2	<2	<2	0.0067	
DCS-7	29-Dec-05	<1	<2	<2	<2	0.0044	
DCS-7	05-Jan-06	<1	<2	<2	<2	0.0058	
DCS-7	09-Jan-06	<1	<2	<2	<2	0.008	
DCS-7	18-Jan-06	<1	<2	<2	<2	0.0055	
DCS-7	24-Jan-06	<1	<2	<2	<2	0.02	
DCS-7	01-Feb-06	<1	<2	<2	<2	0.0053	
DCS-7	09-Feb-06	<0.5	<1	<1	<1	0.017	
DCS-7	13-Feb-06	<0.5	<1	<1	<1	<0.002	
DCS-7	22-Feb-06	<1	<2	<2	<2	0.004	
DCS-7	01-Mar-06	<1	<2	<2	<2	0.002	
DCS-7	09-Mar-06	<1	<2	<2	<2	0.0039	
DCS-7	14-Mar-06	<1	<2	<2	<2	0.01	
DCS-7	22-Mar-06	<1	<2	<2	<2	0.0084	
DCS-7	30-Mar-06	<1	<2	<2	<2	0.0025	
DCS-7	05-Apr-06	<1	<2	<2	<2	0.00079	
DCS-7	10-Apr-06	<1	<2	<2	<2	0.00077	
DCS-7	20-Apr-06	<1	<2	<2	<2	0.00089	
DCS-7	27-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-7	04-May-06	<1	<2	<2	<2	0.0014	
DCS-7	09-May-06	<1	<2	<2	<2	<0.0008	
DCS-7	13-Jun-06	<1	<2	<2	<2	0.0053	
DCS-7	05-Sep-06	<1	<5	<2	<2	0.01	
DCS-7	04-Dec-06	<1	<5	<2	<2	0.011	
DCS-7	12-Mar-07	<1	<5	<2	<2	0.0027	
DCS-7	21-Jun-07	<1	<2	<2	<2	0.002	
DCS-7	13-Sep-07	<1	<2	<2	<2	-88.8	
DCS-7	17-Dec-07	<1	<2	<2	<2	0.0078	
DCS-7	04-Mar-08	<1	<2	<2	<2	0.004	
DCS-7	18-Jun-08	<1	<2	<2	<2	0.0022	

Appendix C

Summary of Historical Surface-Water Analytical Results
Encana, West Divide Creek Seep
Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-7	29-Sep-08	<1	<2	<2	<2	0.0084	
DCS-7	10-Dec-08	<1	<2	<2	<2	0.0083	
DCS-7	17-Mar-09	<1	<2	<2	<2	0.0012	
DCS-7	16-Jun-09	<1	<2	<2	<2	0.0037	
DCS-7	17-Sep-09	<1	<2	<2	<2	0.0054	
DCS-7	16-Dec-09	<1	<2	<2	<2	0.0069	
DCS-7	31-Mar-10	<1	<2	<2	<2	0.00156	
DCS-7	29-Jun-10	<1	<2	<2	<2	0.00186	
DCS-8	09-Dec-04	<1	<2	<2	<2	0.021	
DCS-8	15-Dec-04	<1	<2	<2	<2	0.013	
DCS-8	20-Dec-04	<1	<2	<2	<2	0.026	
DCS-8	23-Dec-04	<1	<2	<2	<2	0.016	
DCS-8	06-Jan-05	<1	<2	<2	<2	0.016	
DCS-8	10-Jan-05	<1	<2	<2	<2	0.0098	
DCS-8	20-Jan-05	<1	<2	<2	<2	0.0075	
DCS-8	26-Jan-05	<1	<2	<2	<2	0.013	
DCS-8	04-Feb-05	<1	<2	<2	<2	0.0075	
DCS-8	07-Feb-05	<1	<2	<2	<2	0.0076	
DCS-8	16-Feb-05	<1	<2	<2	<2	0.0074	
DCS-8	24-Feb-05	<1	<2	<2	<2	0.0099	
DCS-8	03-Mar-05	<1	<2	<2	<2	0.0058	
DCS-8	07-Mar-05	<1	<2	<2	<2	0.0086	
DCS-8	18-Mar-05	<1	<2	<2	<2	0.0075	
DCS-8	23-Mar-05	<1	<2	<2	<2	0.013	
DCS-8	29-Mar-05	<1	<2	<2	<2	0.0041	
DCS-8	07-Apr-05	<1	<2	<2	<2	0.0083	
DCS-8	11-Apr-05	<1	<2	<2	<2	0.025	
DCS-8	27-Apr-05	<1	<2	<2	<2	0.0027	
DCS-8	05-May-05	<1	<2	<2	<2	0.0032	
DCS-8	09-May-05	<1	<2	<2	<2	0.0019	
DCS-8	18-May-05	<1	<2	<2	<2	0.002	
DCS-8	25-May-05	<1	<2	<2	<2	0.0017	
DCS-8	02-Jun-05	<1	<2	<2	<2	0.0032	
DCS-8	08-Jun-05	<1	<2	<2	<2	0.0045	
DCS-8	15-Jun-05	<1	<2	<2	<2	0.0025	
DCS-8	21-Jun-05	<1	<2	<2	<2	0.0024	
DCS-8	30-Jun-05	<1	<2	<2	<2	0.0034	
DCS-8	07-Jul-05	<1	<2	<2	<2	0.0047	
DCS-8	11-Jul-05	<1	<2	<2	<2	0.0044	
DCS-8	21-Jul-05	<1	<2	<2	<2	0.0072	
DCS-8	27-Jul-05	<1	<2	<2	<2	0.0038	

Appendix C

Summary of Historical Surface-Water Analytical Results
Encana, West Divide Creek Seep
Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-8	03-Aug-05	<1	<2	<2	<2	0.0099	
DCS-8	08-Aug-05	<0.5	<5	<2	NA	<0.01	
DCS-8	08-Aug-05	<1	<2	<2	<2	0.0075	
DCS-8	08-Aug-05	<1	<2	<2	<2	0.0072	
DCS-8	16-Aug-05	<1	<2	<2	<2	0.0083	
DCS-8	24-Aug-05	<1	<2	<2	<2	0.0065	
DCS-8	02-Sep-05	<1	<2	<2	<2	0.0066	
DCS-8	09-Sep-05	<1	<2	<2	<2	0.0068	
DCS-8	13-Sep-05	<1	<2	<2	<2	0.0064	
DCS-8	22-Sep-05	<1	<2	<2	<2	0.0018	
DCS-8	29-Sep-05	<1	<2	<2	<2	0.0032	
DCS-8	06-Oct-05	<1	<2	<2	<2	0.026	
DCS-8	10-Oct-05	<1	<2	<2	<2	0.0097	
DCS-8	20-Oct-05	<1	<2	<2	<2	0.011	
DCS-8	27-Oct-05	<1	<2	<2	<2	0.0091	
DCS-8	03-Nov-05	<1	<2	<2	<2	0.0065	
DCS-8	07-Nov-05	<1	<2	<2	<2	0.0043	
DCS-8	17-Nov-05	<1	<2	<2	<2	0.0066	
DCS-8	22-Nov-05	<1	<2	<2	<2	0.012	
DCS-8	29-Nov-05	<1	<2	<2	<2	0.021	
DCS-8	06-Dec-05	<1	<2	<2	<2	0.013	
DCS-8	14-Dec-05	<1	<2	<2	<2	0.073	
DCS-8	21-Dec-05	<1	<2	<2	<2	0.0073	
DCS-8	29-Dec-05	<1	<2	<2	<2	-88.8	
DCS-8	05-Jan-06	<1	<2	<2	<2	0.006	
DCS-8	09-Jan-06	<1	<2	<2	<2	0.0081	
DCS-8	18-Jan-06	<1	<2	<2	<2	0.005	
DCS-8	24-Jan-06	<1	<2	<2	<2	0.018	
DCS-8	01-Feb-06	<1	<2	<2	<2	0.0056	
DCS-8	09-Feb-06	<0.5	<1	<2	<1	0.015	
DCS-8	13-Feb-06	<0.5	<1	<2	<1	<0.002	
DCS-8	22-Feb-06	<1	<2	<2	<2	0.0052	
DCS-8	01-Mar-06	<1	<2	<2	<2	0.0018	
DCS-8	09-Mar-06	<1	<2	<2	<2	0.0038	
DCS-8	14-Mar-06	<1	<2	<2	<2	0.0088	
DCS-8	22-Mar-06	<1	<2	<2	<2	0.008	
DCS-8	30-Mar-06	<1	<2	<2	<2	0.0024	
DCS-8	05-Apr-06	<1	<2	<2	<2	0.00083	
DCS-8	10-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-8	20-Apr-06	<1	<2	<2	<2	0.0008	
DCS-8	27-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-8	04-May-06	<1	<2	<2	<2	0.0013	

Appendix C

Summary of Historical Surface-Water Analytical Results
Encana, West Divide Creek Seep
Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-8	09-May-06	<1	<2	<2	<2	0.0011	
DCS-8	13-Jun-06	<1	<2	<2	<2	0.0043	
DCS-8	05-Sep-06	<1	<5	<2	<2	0.0084	
DCS-8	04-Dec-06	<1	<5	<2	<2	0.011	
DCS-8	12-Mar-07	<1	<5	<2	<2	0.0022	
DCS-8	21-Jun-07	<1	<2	<2	<2	0.0017	
DCS-8	13-Sep-07	<1	<2	<2	<2	0.0064	
DCS-8	13-Sep-07	<1	<2	<2	<2	0.005	
DCS-8	17-Dec-07	<1	<2	<2	<2	0.0058	
DCS-8	04-Mar-08	<1	<2	<2	<2	0.0034	
DCS-8	18-Jun-08	<1	<2	<2	<2	0.0023	
DCS-8	29-Sep-08	<1	<2	<2	<2	0.0065	
DCS-8	10-Dec-08	<1	<2	<2	<2	0.006	
DCS-8	17-Mar-09	<1	<2	<2	<2	0.0011	
DCS-8	16-Jun-09	<1	<2	<2	<2	0.0032	
DCS-8	17-Sep-09	<1	<2	<2	<2	0.0038	
DCS-8	16-Dec-09	<1	<2	<2	<2	0.0058	
DCS-8	31-Mar-10	<1	<2	<2	<2	0.0013	
DCS-8	29-Jun-10	<1	<2	<2	<2	0.0015	

Bold - indicates value exceeds state standard
mg/l - milligrams/liter
ug/l - micrograms/liter
Total number of observations for all points over all dates = 1020

APPENDIX D

Historical QA/QC Results for
Surface and Ground Water Samples
included as .pdf file on CD in back

Appendix D

Summary of Historical QA/QC Samples
Encana, West Divide Seep
Garfield County, Colorado

Sample ID	Seq	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)
Colorado RBSLs			5	1000	680	10000	
DCS-1		1/10/05	< 1	< 2	< 2	< 2	0.0022
DCS-1	Dup	1/10/05	< 1	< 2	< 2	< 2	0.0023
DCS-1	Split	1/10/05	< 0.5	< 5	< 0.5	< 1.5	< 0.01
DCS-1		3/7/05	< 1	< 2	< 2	< 2	0.0014
DCS-1	Dup	3/7/05	< 1	< 2	< 2	< 2	0.0014
DCS-1	Split	3/7/05	< 0.5	< 5	< 0.5	< 1.5	< 0.01
DCS-1		12/4/06	< 1	< 5	< 2	< 2	0.0015
DCS-1	Dup	12/4/06	< 1	< 5	< 2	< 2	0.0015
DCS-1	Split	12/4/06	< 0.25	< 0.25	< 0.25	< 0.5	0.0005
DCS-1		3/17/09	< 1	< 2	< 2	< 2	< 0.0008
DCS-1	Dup	3/17/09	< 1	< 2	< 2	< 2	0.0062
DCS-1	Split	3/17/09	< 1	< 1	< 1	< 1	< 0.001
DCS-2		10/12/04	4.3	< 2	< 2	< 2	0.36
DCS-2	Dup	10/12/04	4.1	< 2	< 2	< 2	0.36
DCS-2	Split	10/12/04	3.6	< 2	< 2	< 1.5	0.18
DCS-2		5/9/05	< 1	< 2	< 2	< 2	0.0084
DCS-2	Dup	5/9/05	< 1	< 2	< 2	< 2	0.0098
DCS-2	Split	5/9/05	< 0.5	< 5	< 0.5	< 1.5	0.012
DCS-2		4/10/06	< 1	< 2	< 2	< 2	< 0.0008
DCS-2	Dup	4/10/06	< 1	< 2	< 2	< 2	< 0.0008
DCS-2	Split	4/10/06	< 0.25	< 0.25	< 0.25	< 0.5	0.00061
DCS-2		9/5/06	< 1	< 5	< 2	< 2	0.0054
DCS-2	Dup	9/5/06	< 1	< 5	< 2	< 2	0.0057
DCS-2	Split	9/5/06	< 0.25	< 0.25	< 0.25	< 0.5	0.00269
DCS-2		3/12/07	< 1	< 5	< 2	< 2	0.072
DCS-2	Dup.	3/12/07	< 1	< 5	< 2	< 2	0.11
DCS-2	Split	3/12/07	< 1	< 5	< 2	< 2	0.0735
DCS-2		6/21/07	< 1	< 2	< 2	< 2	0.0019
DCS-2	Dup	6/21/07	< 1	< 2	< 2	< 2	0.002
DCS-2	Split	6/21/07	< 0.25	< 0.25	< 0.25	< 0.5	0.991
DCS-2		3/3/08	< 1	< 2	< 2	< 2	0.00096
DCS-2	Dup	3/3/08	< 1	< 2	< 2	< 2	0.0011
DCS-2	Split	3/3/08	< 0.5	< 0.5	< 0.5	< 1	0.000488
DCS-3		4/16/04	**5.7**	4.2	< 2	< 2	0.38
DCS-3	Dup	4/16/04	**5.8**	4.2	< 2	2.3	0.33
DCS-3		12/9/04	< 1	< 2	< 2	< 2	0.077
DCS-3	Dup	12/9/04	< 1	< 2	< 2	< 2	0.079
DCS-3	Split	12/9/04	< 0.5	< 5	< 0.5	< 1.5	0.058
DCS-3		6/8/05	< 1	< 2	< 2	< 2	0.0035
DCS-3	Dup	6/8/05	< 1	< 2	< 2	< 2	0.0037
DCS-3	Split	6/8/05	< 0.5	< 5	< 0.5	< 1.5	< 0.01
DCS-3		7/11/05	< 1	< 2	< 2	< 2	0.0069
DCS-3	Dup	7/11/05	< 1	< 2	< 2	< 2	0.006

Appendix D

Summary of Historical QA/QC Samples
Encana, West Divide Seep
Garfield County, Colorado

Sample ID	Seq	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)
Colorado RBSLs			5	1000	680	10000	
DCS-3	Split	7/11/05	< 0.5	< 5	0.53	2.6	0.017
DCS-3		5/9/06	< 1	< 2	< 2	< 2	< 0.0008
DCS-3	Dup	5/9/06	< 1	< 2	< 2	< 2	< 0.0008
DCS-3	Split	5/9/06	< 0.5	< 0.5	< 0.5	< 1	0.000849
DCS-3		12/17/07	< 1	< 2	< 2	< 2	0.0032
DCS-3	Dup	12/17/07	< 1	< 2	< 2	< 2	0.0034
DCS-3	Rep	12/17/07	< 0.5	< 5	< 0.5	< 0	0.00371
DCS-3		6/16/09	< 1	< 2	< 2	< 2	0.0014
DCS-3	Dup	6/16/09	< 1	< 2	< 2	< 2	0.0014
DCS-4		2/7/05	< 1	< 2	< 2	< 2	0.0096
DCS-4	Dup	2/7/05	< 1	< 2	< 2	< 2	0.0096
DCS-4	Split	2/7/05	< 0.5	< 5	< 0.5	< 1.5	< 0.01
DCS-4		11/7/05	< 1	< 2	< 2	< 2	0.0044
DCS-4	Dup	11/7/05	< 1	< 2	< 2	< 2	0.0034
DCS-4	Split	11/7/05	< 0.5	< 5	< 0.5	< 1.5	< 0.01
DCS-4		1/9/06	< 1	< 2	< 2	< 2	0.0064
DCS-4	Dup	1/9/06	< 1	< 2	< 2	< 2	0.0064
DCS-4	Split	1/9/06	< 0.5	< 1	< 1	< 2	0.005
DCS-4		9/29/08	< 1	< 2	< 2	< 2	0.0098
DCS-4	Dup	9/29/08	< 1	< 2	< 2	< 2	0.0098
DCS-4	Split	9/29/08	< 0.5	< 0.5	< 0.5	< 0.5	0.012
DCS-5		9/13/05	< 1	< 2	< 2	< 2	0.0076
DCS-5	Dup	9/13/05	< 1	< 2	< 2	< 2	0.0075
DCS-5	Split	9/13/05	0.99	< 5	< 0.5	1.9	0.012
DCS-5		2/13/06	< 0.5	< 1	< 1	< 2	< 0.002
DCS-5	Dup	2/13/06	< 0.5	< 1	< 1	< 2	0.009
DCS-5	Split	2/13/06	< 0.5	< 0.5	< 0.5	< 1	0.013
DCS-5		6/13/06	< 1	< 2	< 2	< 2	0.0045
DCS-5	Split	6/13/06	< 0.5	< 0.5	< 0.5	< 1	0.00445
DCS-5		12/10/08	<1	<2	<2	<2	0.0066
DCS-5	Dup	12/10/08	<1	<2	<2	<2	0.0062
DCS-5	Split	12/10/08	<1	<1	<1	<1	0.003
DCS-6		4/29/04	< 1	< 2	< 2	< 2	0.011
DCS-6	Dup	4/29/04	< 1	< 2	< 2	< 2	0.015
DCS-6		10/10/05	< 1	< 2	< 2	< 2	0.014
DCS-6	Dup	10/10/05	< 1	< 2	< 2	< 2	0.015
DCS-6	Split	10/10/05	< 0.5	< 5	< 0.5	< 1.5	0.019
DCS-6		12/6/05	< 1	< 2	< 2	< 2	0.015
DCS-6	Dup	12/6/05	< 1	< 2	< 2	< 2	0.014
DCS-6	Split	12/6/05	< 0.5	< 5	< 0.5	< 1.5	0.014
DCS-6		3/14/06	< 1	< 2	< 2	< 2	0.012
DCS-6	Dup	3/14/06	< 1	< 2	< 2	< 2	0.012

Appendix D

Summary of Historical QA/QC Samples
Encana, West Divide Seep
Garfield County, Colorado

Sample ID	Seq	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)
Colorado RBSLs			5	1000	680	10000	
DCS-6	Split	3/14/06	< 0.25	< 0.25	< 0.25	< 0.5	0.0143
DCS-6		6/18/08	< 1	< 2	< 2	< 2	0.0029
DCS-6	Dup	6/18/08	< 1	< 2	< 2	< 2	0.0027
DCS-6	Split	6/18/08	< 1	< 1	< 1	< 3	NS
DCS-8		8/8/05	< 1	< 2	< 2	< 2	0.0075
DCS-8	Dup	8/8/05	< 1	< 2	< 2	< 2	0.0072
DCS-8	Split	8/8/05	< 0.5	< 5	< 0.5	< 1.5	< 0.01
DCS-8		6/13/06	< 1	< 2	< 2	< 2	0.0043
DCS-8	Dup	6/13/06	< 1	< 2	< 2	< 2	0.0048
DCS-8		9/13/07	< 1	< 2	< 2	< 2	0.0064
DCS-8	Dup	9/13/07	< 1	< 2	< 2	< 2	0.005
MW-1		9/11/07	< 1	< 2	< 2	< 2	0.001
MW-1	Dup	9/11/07	< 1	< 2	< 2	< 2	< 0.0008
MW-1	Split	9/11/07	< 0.5	< 0.5	< 0.5	< 1	0.000144
MW-2		2/9/05	**420**	< 10	< 10	30	3
MW-2	Dup	2/9/05	**420**	2.4	8.6	43.5	2.6
MW-2	Split	2/9/05	**340**	< 5	6.7	33	0.65
MW-2		12/7/05	**290**	< 10	< 10	46	6.5
MW-2	Dup	12/7/05	**270**	< 10	< 10	42	5.1
MW-2	Split	12/7/05	**290**	35	8.1	49	8.4
MW-2		1/11/06	**310**	< 2	8.5	63.9	8
MW-2	Dup	1/11/06	**340**	< 2	8.8	62.5	9
MW-2	Split	1/11/06	**174**	< 2	4.9	36.9	3.1
MW-2		3/12/07	**230**	< 2	5.8	37.8	7.8
MW-2	Dup.	3/12/07	**250**	< 2	6.5	43.4	9.4
MW-2	Split	3/12/07	**212**	< 2	8.05	51.43	0.0691
MW-2		6/20/07	**220**	< 2	5.3	36.1	6.1
MW-2	Dup	6/20/07	**190**	< 2	4.6	31.6	4.5
MW-2	Split	6/20/07	**94**	< 0.25	5.5	43.49	0.979
MW-2		3/3/08	**120**	< 2	2.6	11	5.8
MW-2	Dup	3/3/08	**130**	< 2	2.7	12	5.9
MW-2	Split	3/3/08	**186**	< 0.5	5.1	31.2	1.86
MW-2		6/15/09	**110**	<2	<2	28.8	8.3
MW-2	Dup	6/15/09	**94**	<2	<2	24.1	9.2
MW-4		9/15/04	**320**	76	9.5	80.5	9.2
MW-4	Dup	9/15/04	**330**	76	9.1	77.1	8.6
MW-4	Split	9/15/04	**240**	59	6.7	60	27
MW-4		10/14/04	**300**	37	9	55.2	5.6
MW-4	Dup	10/14/04	**300**	51	9	59	9.3
MW-4	Split	10/14/04	**210**	< 50	6.1	37	4.4
MW-4		12/13/04	**270**	36	8.1	64.9	14

Appendix D

Summary of Historical QA/QC Samples
Encana, West Divide Seep
Garfield County, Colorado

Sample ID	Seq	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)
Colorado RBSLs			5	1000	680	10000	
MW-4	Dup	12/13/04	**270**	37	7.7	62.6	12
MW-4	Split	12/13/04	**240**	33	12	97	7.8
MW-4		1/12/05	**350**	68	11	71.9	14
MW-4	Dup	1/12/05	**360**	40	11	62.3	14
MW-4	Split	1/12/05	**320**	35	8.1	49	6.1
MW-4		4/12/05	**130**	33	< 2	20	8.9
MW-4	Dup	4/12/05	**130**	52	< 2	24	10
MW-4	Split	4/12/05	**280**	< 1200	< 120	< 380	8.7
MW-4		5/9/05	**310**	66	11	88	10
MW-4	Dup	5/9/05	**320**	77	11	90	11
MW-4		7/11/05	**180**	32	3.8	34.9	6.1
MW-4	Dup	7/11/05	**170**	40	3.3	38.7	7.8
MW-4	Split	7/11/05	0.69	< 1200	< 120	< 380	< 1
MW-4		8/9/05	**270**	41	< 10	69	8.3
MW-4	Dup	8/9/05	**240**	46	< 10	65	8.5
MW-4	Split	8/9/05	**170**	29	2.2	62	2.7
MW-4		1/10/06	**270**	< 2	6.5	71	8.8
MW-4	Dup	1/10/06	**270**	< 2	8	73	8.5
MW-4	Split	1/10/06	**97**	< 2	< 2	37	8.3
MW-4		3/12/07	**220**	< 2	7	67.2	9.8
MW-4	Dup.	3/12/07	**200**	< 2	6	55.9	7.6
MW-4	Split	3/12/07	**172**	< 0.25	6.73	69.28	0.0592
MW-4		10/1/08	**110**	< 2	< 2	33.7	6.2
MW-4	Dup	10/1/08	**120**	< 2	< 2	34.9	5
MW-4	Split	10/1/08	**100**	< 0.5	0.69	23.7	4.48
MW-4		3/16/09	**81**	< 2	< 2	17.3	9.2
MW-4	Dup	3/16/09	**83**	< 2	< 2	18.5	9.1
MW-4	Split	3/16/09	**73**	<1	<1	15.7	5.99
MW-6		12/14/04	< 1	< 2	< 2	< 2	0.054
MW-6	Dup	12/14/04	< 1	< 2	< 2	< 2	0.4
MW-6	Split	12/14/04	< 0.5	< 5	< 0.5	< 1.5	0.071
MW-6		6/8/05	1.3	< 2	< 2	< 2	0.18
MW-6	Dup	6/8/05	2.5	< 2	< 2	< 2	0.22
MW-6	Split	6/8/05	2.2	< 5	< 0.5	< 1.5	0.024
MW-6		9/12/05	2	< 2	< 2	< 2	0.12
MW-6	Dup	9/12/05	1.9	< 2	< 2	< 2	0.16
MW-6	Split	9/12/05	1.9	< 5	< 0.5	< 1.5	< 0.01
MW-6		11/8/05	3.7	< 2	< 2	< 2	0.17
MW-6	Dup	11/8/05	3.6	< 2	< 2	< 2	0.17
MW-6	Split	11/8/05	2.1	< 5	< 0.5	< 1.5	0.41
MW-6		2/14/06	< 0.5	< 1	< 1	< 2	0.15
MW-6	Dup	2/14/06	< 0.5	< 1	< 1	< 2	0.077
MW-6	Split	2/14/06	0.6	< 0.5	< 0.5	< 1	0.128
MW-6		4/12/06	1.1	< 2	< 2	< 2	0.046

Appendix D

Summary of Historical QA/QC Samples
Encana, West Divide Seep
Garfield County, Colorado

Sample ID	Seq	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)
Colorado RBSLs			5	1000	680	10000	
MW-6	Dup	4/12/06	1	< 2	< 2	< 2	0.034
MW-6	Split	4/12/06	1.12	< 0.25	< 0.25	< 0.5	0.125
MW-6		9/7/06	< 1	< 5	< 2	< 2	0.038
MW-6	DUP	9/7/06	< 1	< 5	< 2	< 2	0.031
MW-6	Split	9/7/06	< 0.25	< 0.25	< 0.25	< 0.5	0.00523
MW-6		12/17/07	<1	<2	<2	<2	0.0081
MW-6	Dup	12/17/07	< 1	< 2	< 2	< 2	0.008
MW-6	Split	12/17/07	< 0.5	< 5	< 0.5	< 0	0.00846
MW-6		9/30/08	< 1	< 2	< 2	< 2	< 0.008
MW-6	Dup	9/30/08	< 1	< 2	< 2	< 2	< 0.008
MW-6	Split	9/30/08	< 0.5	< 0.5	< 0.5	< 0.5	< 0.001
MW-7		5/10/05	< 1	< 2	< 2	< 2	< 0.0008
MW-7	Dup	5/10/05	< 1	< 2	< 2	< 2	< 0.0008
MW-7	Split2	5/10/05	< 0.5	< 5	< 0.5	< 1.5	0.031
MW-7		10/11/05	< 1	< 2	< 2	< 2	0.0075
MW-7	Dup	10/11/05	< 1	< 2	< 2	< 2	0.026
MW-7	Split2	10/11/05	< 0.5	< 5	< 0.5	< 1.5	< 0.01
MW-7		9/7/06	< 1	< 2	< 2	< 2	0.047
MW-7	Dup	9/7/06	< 1	< 2	< 2	< 2	0.039
MW-7	Split	9/7/06	< 0.25	< 0.25	< 0.25	< 0.5	0.00163
MW-7		9/21/06	< 1	< 2	< 2	< 2	0.002
MW-7	DUP	9/21/06	< 1	< 2	< 2	< 2	0.0013
MW-7	Split	9/21/06	< 0.25	< 0.25	< 0.25	< 0.5	0.000762
MW-7		6/20/07	< 1	< 2	< 2	< 2	< 0.0008
MW-7	Dup	6/20/07	< 1	< 2	< 2	< 2	0.0013
MW-7	Split	6/20/07	< 0.25	< 0.25	< 0.25	< 0.5	NS
MW-8		11/10/04	**140**	< 2	< 2	< 2	7.2
MW-8	Dup	11/10/04	**150**	< 2	< 2	< 2	6.5
MW-8	Split	11/10/04	**120**	< 5	< 0.5	< 1.5	3.1
MW-8		7/12/05	< 1	< 2	< 2	< 2	0.043
MW-8	Dup	7/12/05	< 1	< 2	< 2	< 2	0.12
MW-8	Split	7/12/05	**120**	< 5	< 0.5	< 1.5	3.1
MW-8		10/12/05	< 1	< 2	< 2	< 2	0.25
MW-8	Dup	10/12/05	< 1	< 2	< 2	< 2	0.19
MW-8	Split	10/12/05	< 0.5	< 5	< 0.5	< 1.5	< 0.01
MW-8		5/11/06	< 1	< 2	< 2	< 2	0.032
MW-8	Dup	5/11/06	< 1	< 2	< 2	< 2	0.017
MW-8	Split	5/11/06	< 0.5	< 0.5	< 0.5	< 1	0.0649
MW-9		11/9/04	**310**	160	10	98	10
MW-9	Dup	11/9/04	**320**	170	11	104	9
MW-9	Split	11/9/04	**280**	160	9.8	100	14

Appendix D

Summary of Historical QA/QC Samples
Encana, West Divide Seep
Garfield County, Colorado

Sample ID	Seq	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)
Colorado RBSLs			5	1000	680	10000	
MW-12		10/13/04	< 1	< 2	< 2	< 2	< 0.0008
MW-12	Dup	10/13/04	< 1	< 2	< 2	< 2	0.17
MW-12	Split	10/13/04	< 1	< 2	< 2	< 1.5	0.12
MW-12		3/15/06	< 1	< 2	< 2	< 2	1.6
MW-12	Dup	3/15/06	< 1	< 2	< 2	< 2	1.4
MW-12	Split	3/15/06	< 0.5	< 0.5	< 0.5	< 1	1.51
MW-16		3/8/05	**6.1**	< 2	< 2	< 2	0.83
MW-16	Dup	3/8/05	**6.3**	< 2	< 2	< 2	0.66
MW-16	Split	3/8/05	**6.2**	< 5	< 0.5	< 1.5	1.7
MW-16		9/16/09	<1	<2	<2	<2	1.8
MW-16	Dup	9/16/09	<1	<2	<2	<2	1.5
MW-16		12/15/09	< 1	< 2	< 2	< 2	0.76
MW-16	Dup	12/15/09	< 1	< 2	< 2	< 2	0.75
MW-16		3/30/10	< 1	< 2	< 2	< 2	0.636
MW-16	Dup	3/30/10	< 1	< 2	< 2	< 2	0.527
MW-16		6/28/10	< 1	< 2	< 2	< 2	0.0889
MW-16	Dup	6/28/10	< 1	2.4	< 2	< 2	0.0135
MW-16[a]		7/21/10	< 1	< 2	< 2	< 2	
MW-16[a]	Dup	7/21/10	< 1	< 2	< 2	< 2	
MW-18		12/8/05	< 1	< 2	< 2	< 2	0.76
MW-18	Dup	12/8/05	< 1	< 2	< 2	< 2	0.68
MW-18	Split2	12/8/05	< 0.5	< 5	< 0.5	< 1.5	0.8
MW-18		6/13/06	< 1	< 2	< 2	< 2	1.4
MW-18	Dup	6/13/06	< 1	< 2	< 2	< 2	1.2
MW-18	Split	6/13/06	< 0.5	< 0.5	< 0.5	< 1	1.46
MW-18		6/19/08	< 1	< 2	< 2	< 2	0.15
MW-18	Dup	6/19/08	< 1	< 2	< 2	< 2	0.013
MW-18	Split	6/19/08	< 1	< 1	< 1	< 3	NS
MW-22		3/9/05	< 1	< 2	< 2	< 2	0.0043
MW-22	Dup	3/9/05	< 1	< 2	< 2	< 2	0.0034
MW-22	Split2	3/9/05	< 0.5	< 5	< 0.5	< 1.5	< 0.01
MW-23		9/16/09	< 1	< 2	< 2	< 2	<0.0008
MW-23	Dup	9/16/09	< 1	< 2	< 2	< 2	0.0011
MW-23		3/30/10	< 1	< 2	< 2	< 2	0.0724
MW-23	Dup	3/30/10	< 1	< 2	< 2	< 2	0.0964
MW-23		6/28/10	< 1	< 2	< 2	< 2	<0.0008
MW-23	Dup	6/28/10	< 1	< 2	< 2	< 2	<0.0008
MW-24		8/10/05	< 1	< 2	< 2	< 2	< 0.0008
MW-24	Dup	8/10/05	< 1	< 2	< 2	< 2	< 0.0008
MW-24	Split2	8/10/05	< 0.5	< 5	< 0.5	1.9	< 0.01

Appendix D

Summary of Historical QA/QC Samples
Encana, West Divide Seep
Garfield County, Colorado

Sample ID	Seq	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)
Colorado RBSLs			5	1000	680	10000	
MW-24		11/9/05	< 1	< 2	< 2	< 2	< 0.0008
MW-24	Dup	11/9/05	< 1	< 2	< 2	< 2	< 0.0008
MW-24	Split2	11/9/05	< 0.5	< 5	< 0.5	< 1.5	< 0.01
MW-24		2/15/06	< 1	< 2	< 2	< 2	< 0.0008
MW-24	Dup	2/15/06	< 1	< 2	< 2	< 2	< 0.0008
MW-24	Split	2/15/06	< 0.5	< 0.5	< 0.5	< 1	< 0.0034
MW-24		12/6/06	< 1	< 2	< 2	< 2	< 0.0008
MW-24	DUP	12/6/06	< 1	< 2	< 2	< 2	< 0.0008
MW-24	Split	12/6/06	< 0.25	< 0.25	< 0.25	< 0.5	0.00028
MW-24		12/10/08	<1	<2	<2	<2	<0.0008
MW-24	Dup	12/10/08	<1	<2	<2	<2	<0.0008
MW-24	Split	12/10/08	<1	<1	<1	<1	<0.001
MW-26		1/13/05	< 1	< 2	< 2	< 2	2.4
MW-26	Dup	1/13/05	< 1	< 2	< 2	< 2	2.1
MW-26	Split	1/13/05	< 0.5	< 5	< 0.5	< 1.5	0.5
MW-26		2/10/05	< 1	< 2	< 2	< 2	2.9
MW-26	Dup	2/10/05	< 1	< 2	< 2	< 2	3.2
MW-26	Split2	2/10/05	< 0.5	< 5	< 0.5	< 1.5	2.9
MW-26		4/13/05	< 1	< 2	< 2	< 2	3.3
MW-26	Dup	4/13/05	< 1	< 2	< 2	< 2	3.3
MW-26	Split2	4/13/05	< 0.5	< 5	< 0.5	< 1.5	3.7
MW-26		5/11/05	< 1	< 2	< 2	< 2	2.3
MW-26	Dup	5/11/05	< 1	< 2	< 2	< 2	2.1
MW-26	Split2	5/11/05	< 0.5	< 5	< 0.5	< 1.5	0.38
MW-26		9/13/05	< 1	< 2	< 2	< 2	0.97
MW-26	Dup	9/13/05	< 1	< 2	< 2	< 2	0.99
MW-26	Split2	9/13/05	< 0.5	< 5	< 0.5	< 1.5	1.5
MW-26		3/16/06	< 1	< 2	< 2	< 2	0.83
MW-26	Dup	3/16/06	< 1	< 2	< 2	< 2	0.79
MW-26	Split	3/16/06	< 0.25	< 0.25	< 0.25	< 0.5	0.000377
MW-26		4/12/06	< 1	< 2	< 2	< 2	0.45
MW-26	Dup	4/12/06	< 1	< 2	< 2	< 2	0.6
MW-26	Split	4/12/06	< 0.25	< 0.25	< 0.25	< 0.5	0.858
MW-26		5/11/06	< 1	< 2	< 2	< 2	0.75
MW-26	Dup	5/11/06	< 1	< 2	< 2	< 2	0.74
MW-26	Split	5/11/06	< 0.5	< 0.5	< 0.5	< 1	0.877
MW-26		6/13/06	< 1	< 2	< 2	< 2	0.63
MW-26	Dup	6/13/06	< 1	< 2	< 2	< 2	0.74
MW-26	Split	6/13/06	< 0.5	< 0.5	< 0.5	< 1	0.767
MW-26		12/6/06	< 1	< 2	< 2	< 2	1.1
MW-26	DUP	12/6/06	< 1	< 2	< 2	< 2	0.76
MW-26	Split	12/6/06	< 0.25	< 0.25	< 0.25	< 0.5	0.355
MW-26		6/17/08	< 1	< 2	< 2	< 2	0.55
MW-26	Dup	6/17/08	< 1	< 2	< 2	< 2	0.51

Appendix D

Summary of Historical QA/QC Samples
Encana, West Divide Seep
Garfield County, Colorado

Sample ID	Seq	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)
Colorado RBSLs			5	1000	680	10000	
MW-26	Split	6/17/08	< 1	< 1	< 1	< 3	NS
MW-26		12/9/08	<1	<2	<2	<2	0.73
MW-26	Dup	12/9/08	<1	<2	<2	<2	0.79
MW-26	Split	12/9/08	<1	<1	<1	<1	0.145
MW-26		12/16/09	< 1	< 2	< 2	< 2	0.27
MW-26	Dup	12/16/09	< 1	< 2	< 2	< 2	0.33
E2		6/9/05	< 1	< 2	< 2	< 2	0.43
E2	Dup	6/9/05	< 1	< 2	< 2	< 2	0.51
E2	Split	6/9/05	< 0.5	< 5	< 0.5	< 1.5	0.13
E2		10/25/06	< 1	< 2	< 2	< 2	0.0061
E2	Dup	10/25/06	< 1	< 2	< 2	< 2	0.0098
E2	Split	10/25/06	< 0.25	< 0.25	< 0.25	< 0.5	0.00274
FB	Field Blank	7/21/10	< 1	< 2	< 2	< 2	

Bold - Indicates Value exceeds state standard
[a] - Resampled due to suspected laboratory error
ug/L = micrograms per liter
mg/L = milligrams per liter
NS - Not sampled
Dup - Duplicate sample
Split - Split sample
Split2 - Split sample

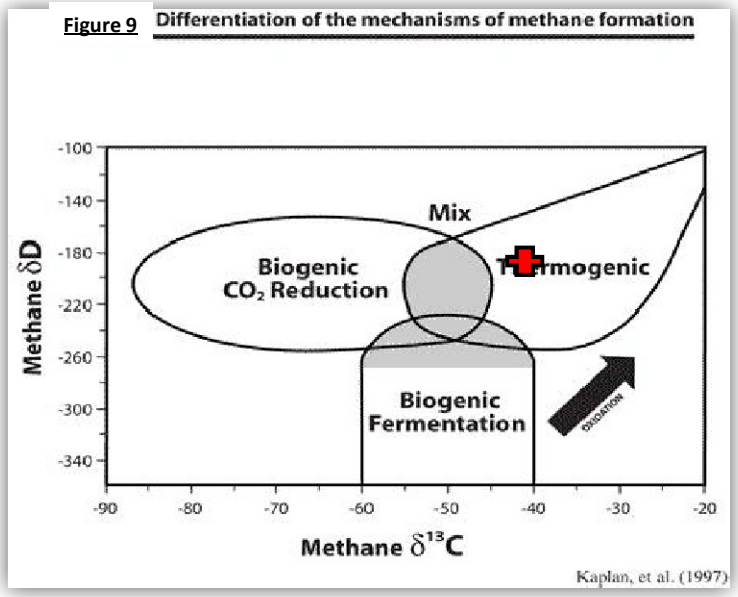
APPENDIX E

Thermogenic Methane Data
included as .pdf file on CD in back

Appendix E - An Estimation of Thermogenic Methane Data for West Divide Creek Seep Study Area

Date	Site ID	Total Methane mg/L	Thermogenic Methane mg/L	$\delta^{13}C_1$ per mil	δDC_1 per mil	Comment
28-Jun-10	MW2	8.71	6.4	-39.89	-178.2	Consistent with thermogenic (or mostly thermogenic) formation
28-Jun-10	MW4	8.35	6.3	-40.11	-192.1	Consistent with thermogenic (or mostly thermogenic) formation
28-Jun-10	MW9	6.8	4.3	-41.77	-203.0	Consistent with thermogenic (or mostly thermogenic) formation
28-Jun-10	MW14	4.79	3.1	-40.21	-197.3	Consistent with thermogenic (or mostly thermogenic) formation
28-Jun-10	MW17	0.0107	<0.0008			Consistent with biogenic formation

Ratioed data and Raw data show more information regarding results



Appendix E - Ratioed Thermogenic Methane Data for West Divide Creek Seep Study Area

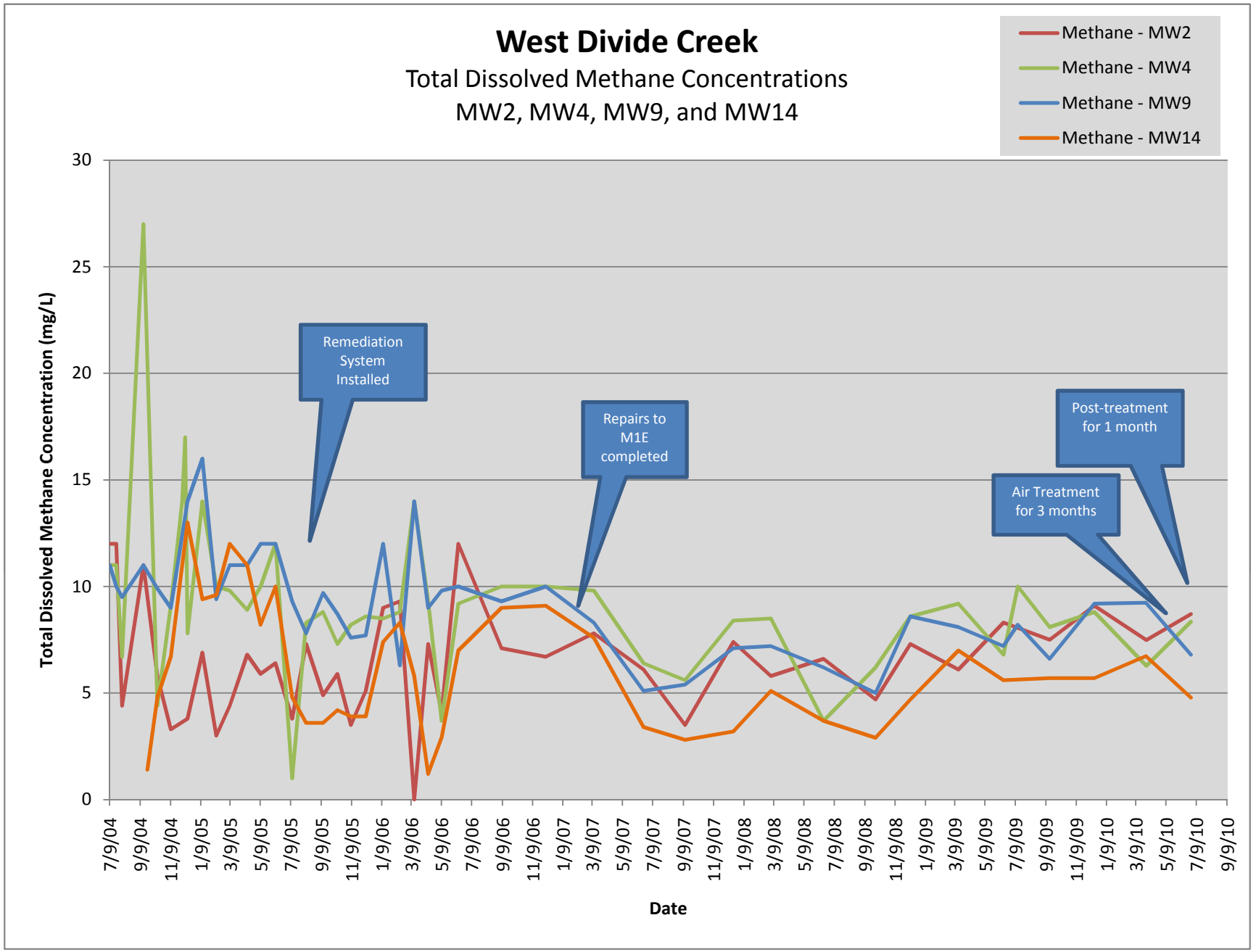
		Water Sample	Percentage, Hydrocarbon only basis															
Date	Site ID	Total Methane mg/L	C_1	C_2	C_3	iC_4	nC_4	iC_5	nC_5	C_6+	$\delta^{13}C_1$ per mil	δDC_1 per mil	C1/ (C2 + C3)	Biogenic only?	Fraction from Biogenic Source	Biogenic Methane mg/L	Thermog Methane mg/L	Total Methane (check) mg/L
28-Jun-10	MW2	8.71	84.437%	11.100%	3.290%	0.462%	0.452%	0.120%	0.059%	0.081%	-39.89	-178.2	5.9E+00		0.261	2.269	6.441	8.71
28-Jun-10	MW4	8.35	84.170%	11.117%	3.447%	0.494%	0.467%	0.133%	0.066%	0.106%	-40.11	-192.1	5.8E+00		0.248	2.070	6.280	8.35
28-Jun-10	MW9	6.8	86.536%	8.547%	3.354%	0.601%	0.619%	0.171%	0.079%	0.092%	-41.77	-203	7.3E+00		0.360	2.450	4.350	6.8
28-Jun-10	MW14	4.79	86.350%	9.055%	3.293%	0.462%	0.561%	0.129%	0.066%	0.084%	-40.21	-197.3	7.0E+00		0.351	1.683	3.107	4.79
28-Jun-10	MW17	0.0107	100.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0	0	>10,000		1.000	0.0107	0.000	0.0107

Appendix E - Raw Thermogenic Methane Data for West Divide Creek Seep Study Area

		Water Sample	Isotech Gas Data															
Date	Site ID	Methane mg/L	Ar %	O_2 %	CO_2 %	N_2 %	C_1 %	C_2 %	C_3 %	iC_4 %	nC_4 %	iC_5 %	nC_5 %	C_6+ %	$\delta^{13}C_1$ per mil	δDC_1 per mil	$\delta^{13}C_2$ per mil	$\delta^{13}C_3$ per mil
28-Jun-10	MW2	8.71	0.532	8.36	3.7	24.69	52.87	6.95	2.06	0.289	0.283	0.0753	0.0372	0.0506	-39.89	-178.2	-27.62	-25.33
28-Jun-10	MW4	8.35	0.217	0.57	78.4	9.99	9.01	1.19	0.369	0.0529	0.05	0.0142	0.0071	0.0113	-40.11	-192.1	-27.64	-25
28-Jun-10	MW9	6.8	0.716	4.86	6.19	32.11	48.5	4.79	1.88	0.337	0.347	0.0961	0.0442	0.0518	-41.77	-203.0	-28.34	-26.08
28-Jun-10	MW14	4.79	0.94	0.09	5.33	46.26	40.91	4.29	1.56	0.219	0.266	0.0613	0.0311	0.0398	-40.21	-197.3	-28.25	-25.68
28-Jun-10	MW17	0.0107	1.67	11.46	6.34	80.44	0.0159	0	0	0	0	0	0	0				

APPENDIX F

Graphs
included as .pdf file on CD in back


West Divide Creek
Total Dissolved Methane Concentrations
MW2, MW4, MW9, and MW14
Methane - MW2
Methane - MW4
Methane - MW9
Methane - MW14
Total Dissolved Methane Concentration (mg/L)
30
25
20
15
10
5
0
Remediation System Installed
Repairs to M1E completed
Air Treatment for 3 months
Post-treatment for 1 month
7/9/04
9/9/04
11/9/04
1/9/05
3/9/05
5/9/05
7/9/05
9/9/05
11/9/05
1/9/06
3/9/06
5/9/06
7/9/06
9/9/06
11/9/06
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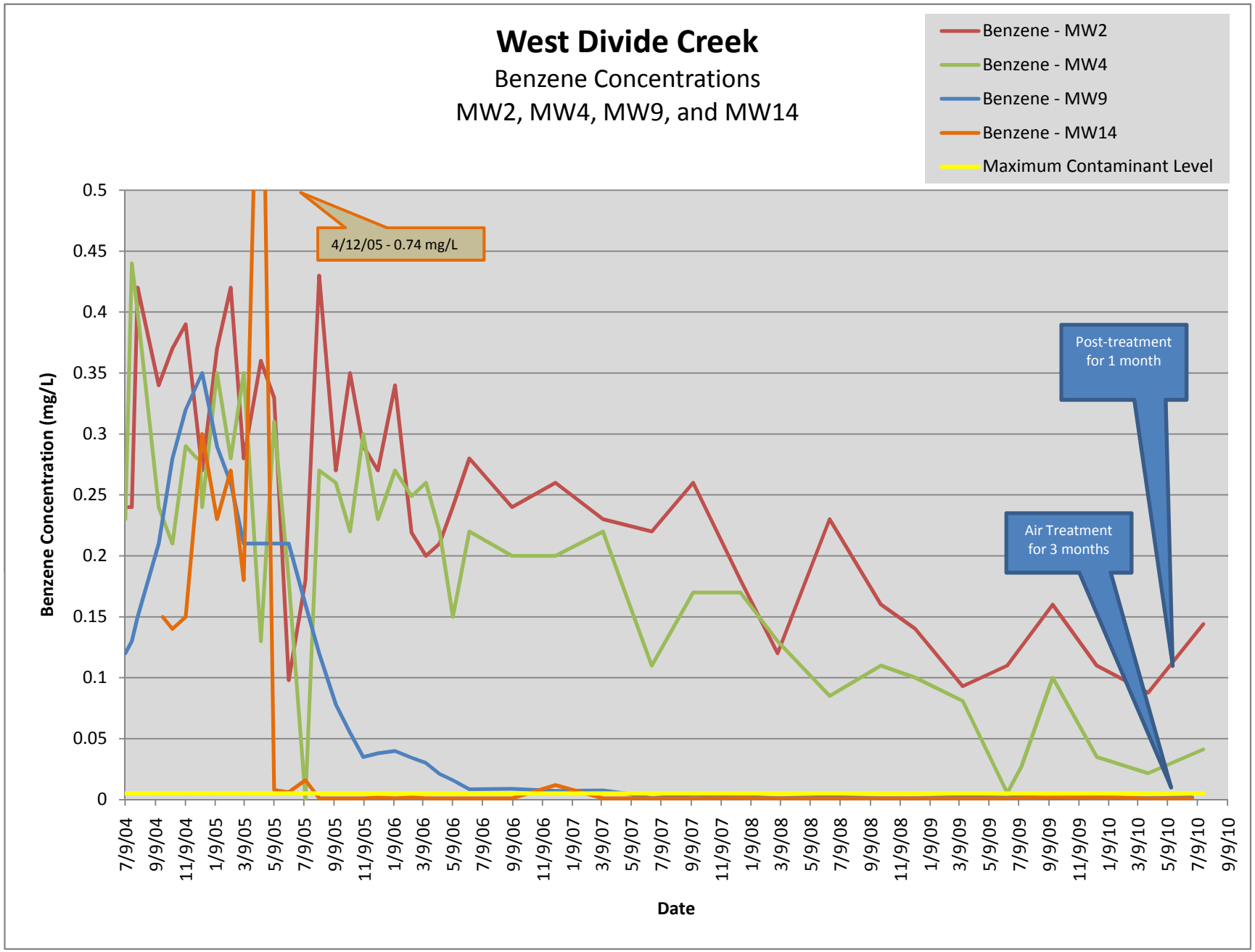
5/9/09
7/9/09
9/9/09
11/9/09
1/9/10
3/9/10
5/9/10
7/9/10
9/9/10
Date


West Divide Creek
Benzene Concentrations
MW2, MW4, MW9, and MW14
Benzene - MW2
Benzene - MW4
Benzene - MW9
Benzene - MW14
Maximum Contaminant Level
4/12/05 - 0.74 mg/L
Post-treatment for 1 month
Air Treatment for 3 months
Benzene Concentration (mg/L)
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
7/9/04
9/9/04
11/9/04
1/9/05
3/9/05
5/9/05
7/9/05
9/9/05
11/9/05
1/9/06
3/9/06
5/9/06
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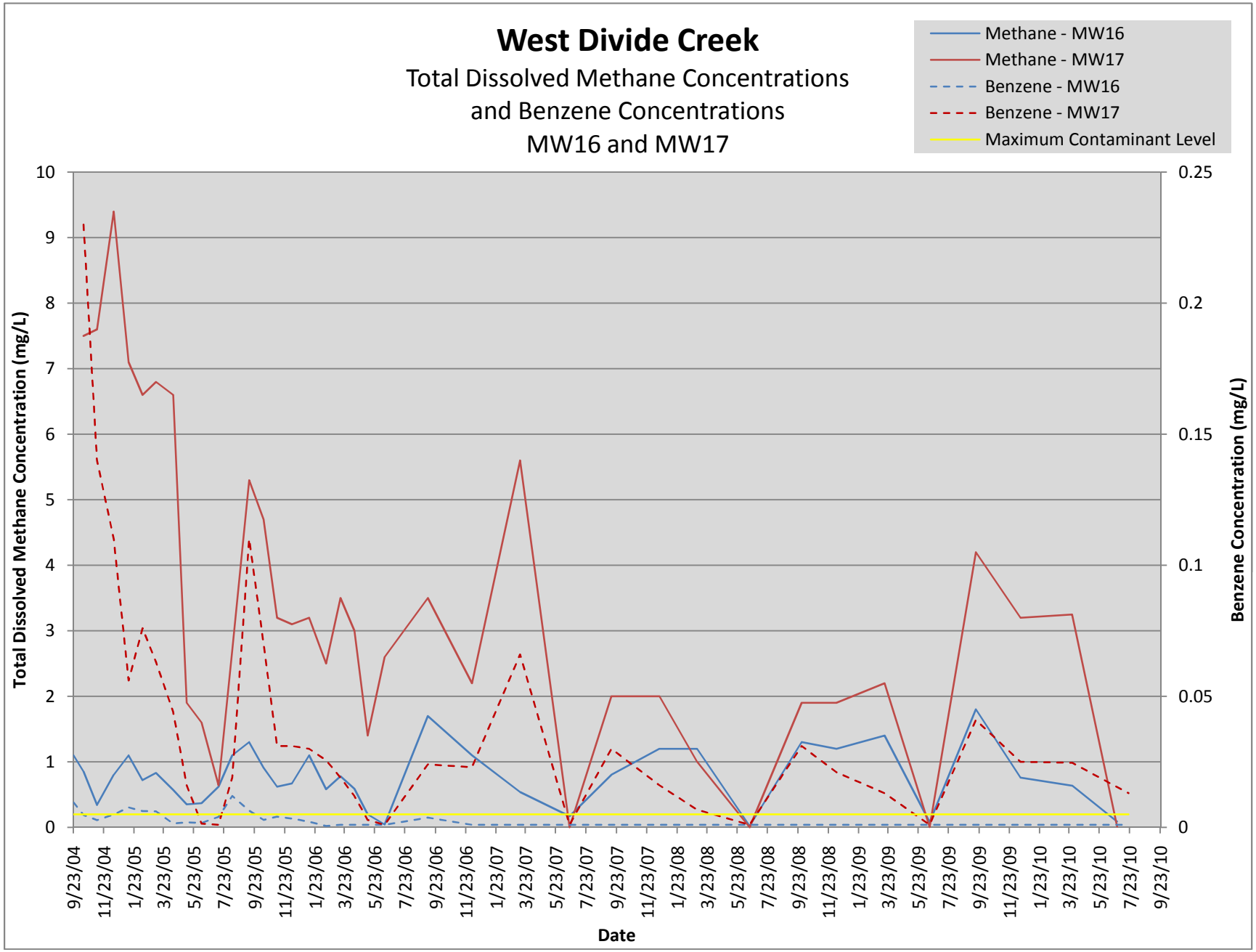
11/9/09
1/9/10
3/9/10
5/9/10
7/9/10
9/9/10
Date


West Divide Creek
Total Dissolved Methane Concentrations
and Benzene Concentrations
MW16 and MW17
Methane - MW16
Methane - MW17
Benzene - MW16
Benzene - MW17
Maximum Contaminant Level
Total Dissolved Methane Concentration (mg/L)
Benzene Concentration (mg/L)
Date
0
1
2
3
4
5
6
7
8
9
10
0
0.05
0.1
0.15
0.2
0.25
9/23/04
11/23/04
1/23/05
3/23/05
5/23/05
7/23/05
9/23/05
11/23/05
1/23/06
3/23/06
5/23/06
7/23/06
9/23/06
11/23/06
1/23/07
3/23/07
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9/23/08
11/23/08
1/23/09
3/23/09
5/23/09
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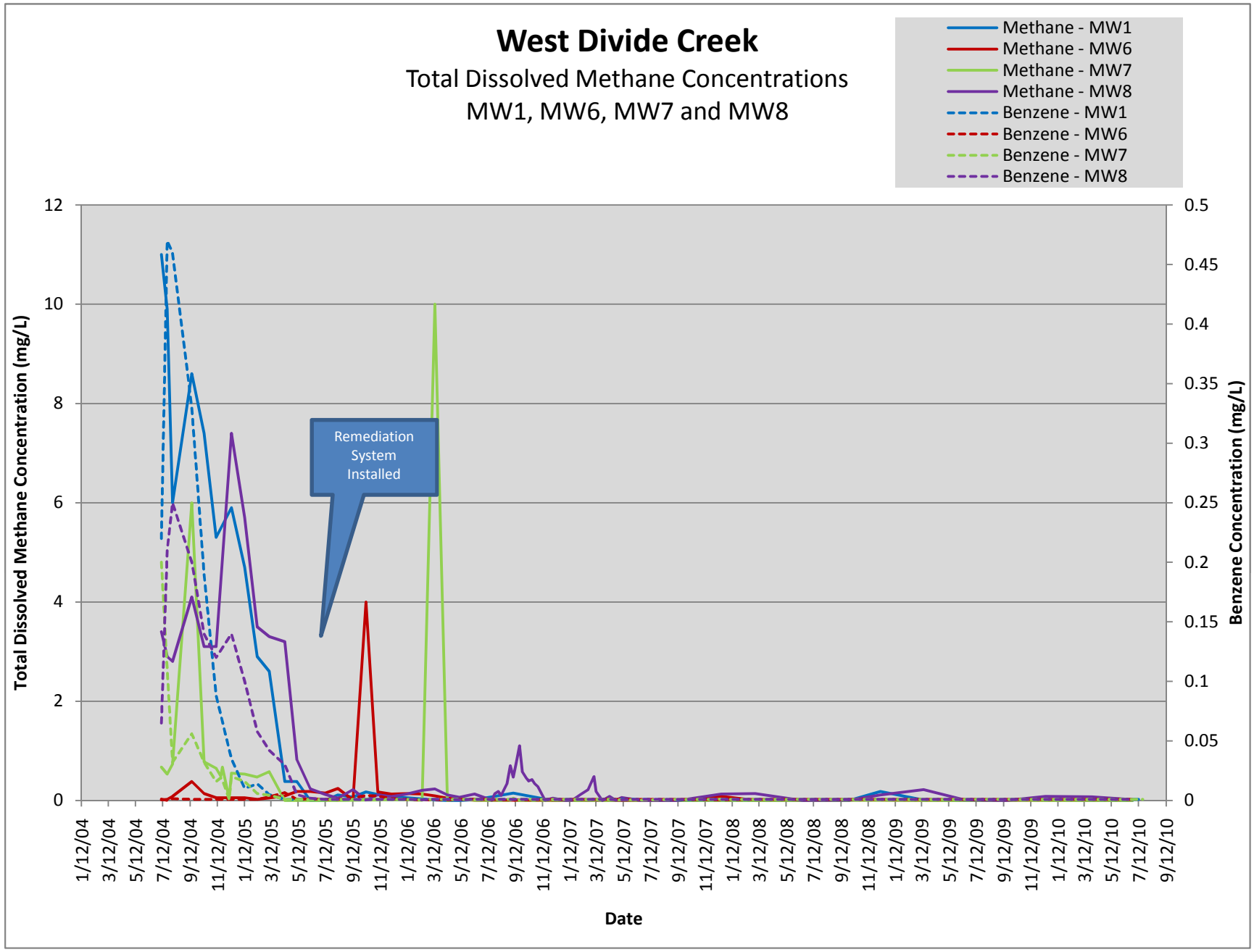
7/23/10
9/23/10


West Divide Creek
Total Dissolved Methane Concentrations
MW1, MW6, MW7 and MW8
Methane - MW1
Methane - MW6
Methane - MW7
Methane - MW8
Benzene - MW1
Benzene - MW6
Benzene - MW7
Benzene - MW8
Remediation System Installed
Total Dissolved Methane Concentration (mg/L)
Benzene Concentration (mg/L)
Date
0
2
4
6
8
10
12
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
0.45
0.5
1/12/04
3/12/04
5/12/04
7/12/04
9/12/04
11/12/04
1/12/05
3/12/05
5/12/05
7/12/05
9/12/05
11/12/05
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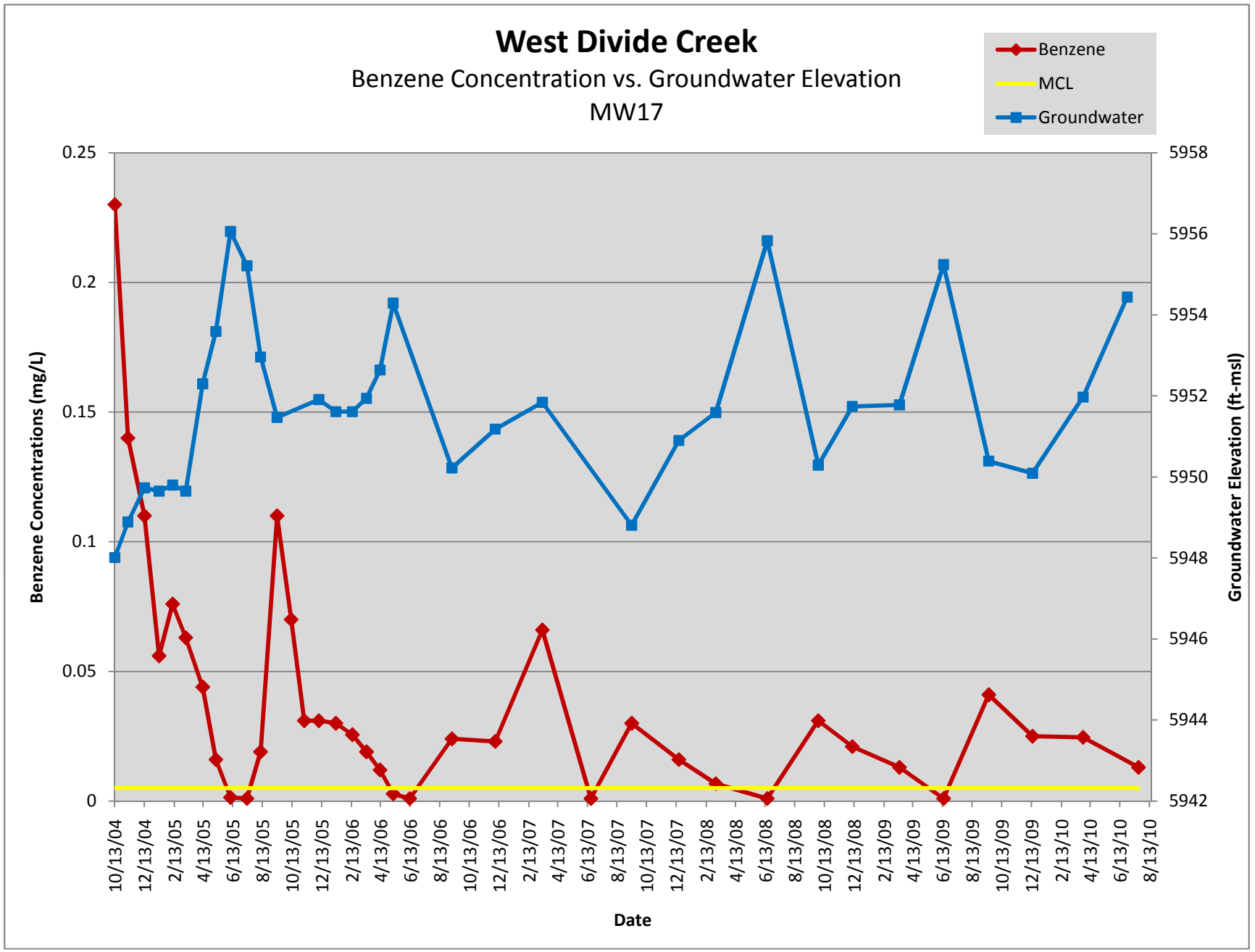
9/12/09
11/12/09
1/12/10
3/12/10
5/12/10
7/12/10
9/12/10


West Divide Creek
Benzene Concentration vs. Groundwater Elevation
MW17
Benzene
MCL
Groundwater
Benzene Concentrations (mg/L)
Groundwater Elevation (ft-msl)
0.25
0.2
0.15
0.1
0.05
0
5958
5956
5954
5952
5950
5948
5946
5944
5942
10/13/04
12/13/04
2/13/05
4/13/05
6/13/05
8/13/05
10/13/05
12/13/05
2/13/06
4/13/06
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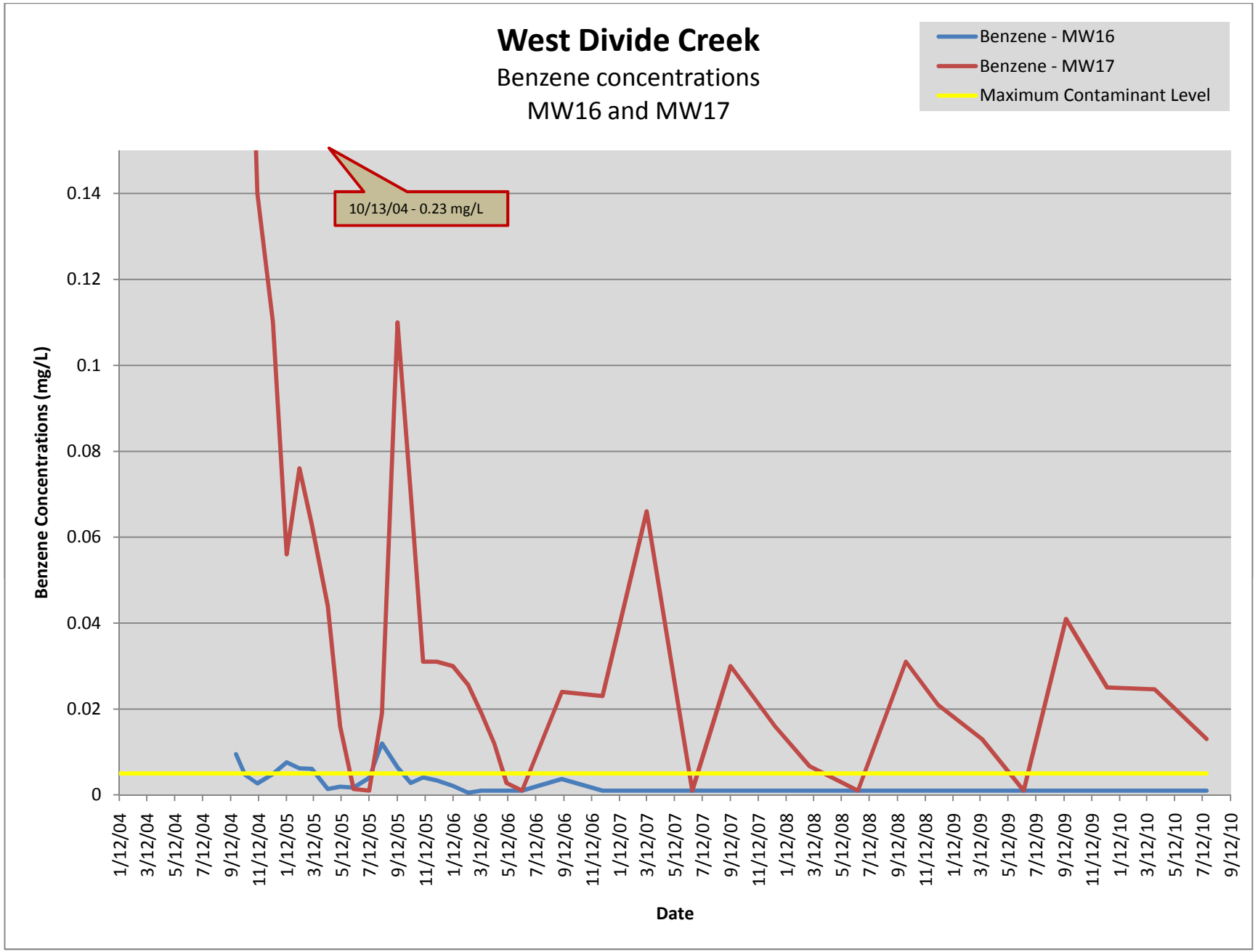
10/13/09
12/13/09
2/13/10
4/13/10
6/13/10
8/13/10
Date


West Divide Creek
Benzene concentrations
MW16 and MW17
Benzene - MW16
Benzene - MW17
Maximum Contaminant Level
10/13/04 - 0.23 mg/L
Benzene Concentrations (mg/L)
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1/12/04
3/12/04
5/12/04
7/12/04
9/12/04
11/12/04
1/12/05
3/12/05
5/12/05
7/12/05
9/12/05
11/12/05
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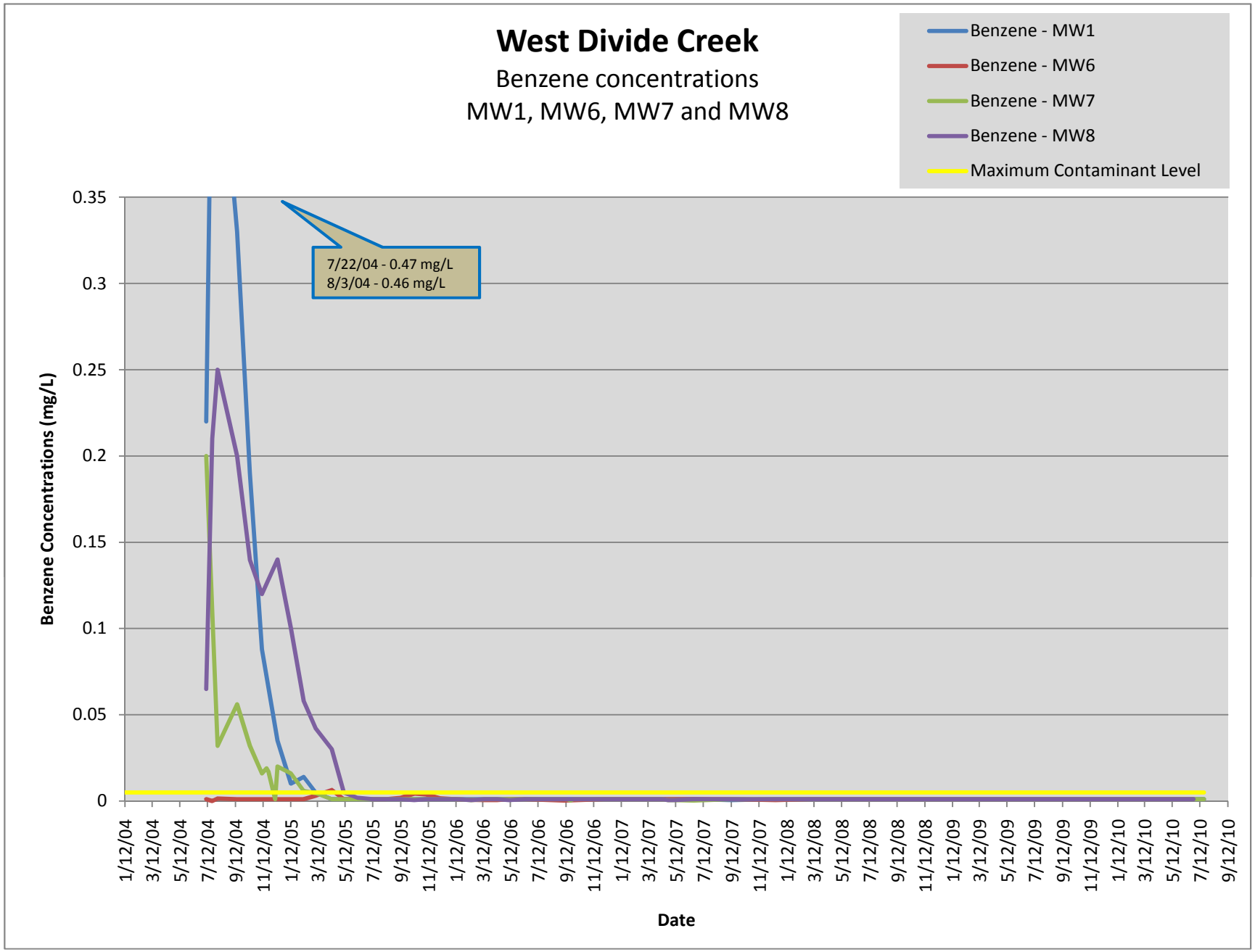
3/12/10
5/12/10
7/12/10
9/12/10
Date


West Divide Creek
Benzene concentrations
MW1, MW6, MW7 and MW8
Benzene - MW1
Benzene - MW6
Benzene - MW7
Benzene - MW8
Maximum Contaminant Level
7/22/04 - 0.47 mg/L
8/3/04 - 0.46 mg/L
Benzene Concentrations (mg/L)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1/12/04
3/12/04
5/12/04
7/12/04
9/12/04
11/12/04
1/12/05
3/12/05
5/12/05
7/12/05
9/12/05
11/12/05
1/12/06
3/12/06
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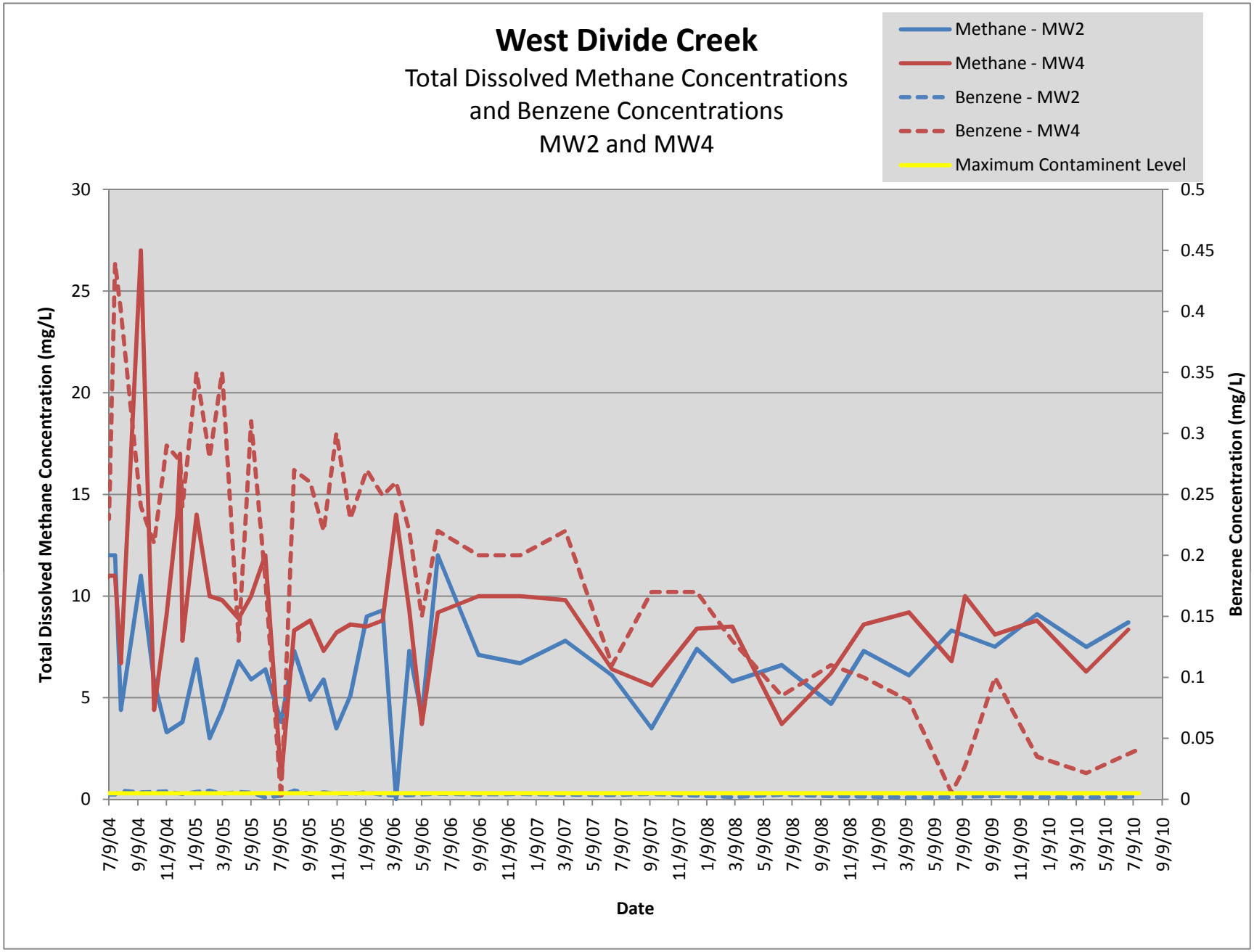
7/12/09
9/12/09
11/12/09
1/12/10
3/12/10
5/12/10
7/12/10
9/12/10
Date


West Divide Creek
Total Dissolved Methane Concentrations
and Benzene Concentrations
MW2 and MW4
Methane - MW2
Methane - MW4
Benzene - MW2
Benzene - MW4
Maximum Contaminent Level
Total Dissolved Methane Concentration (mg/L)
Benzene Concentration (mg/L)
Date
0
5
10
15
20
25
30
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
0.45
0.5
7/9/04
9/9/04
11/9/04
1/9/05
3/9/05
5/9/05
7/9/05
9/9/05
11/9/05
1/9/06
3/9/06
5/9/06
7/9/06
9/9/06
11/9/06
1/9/07
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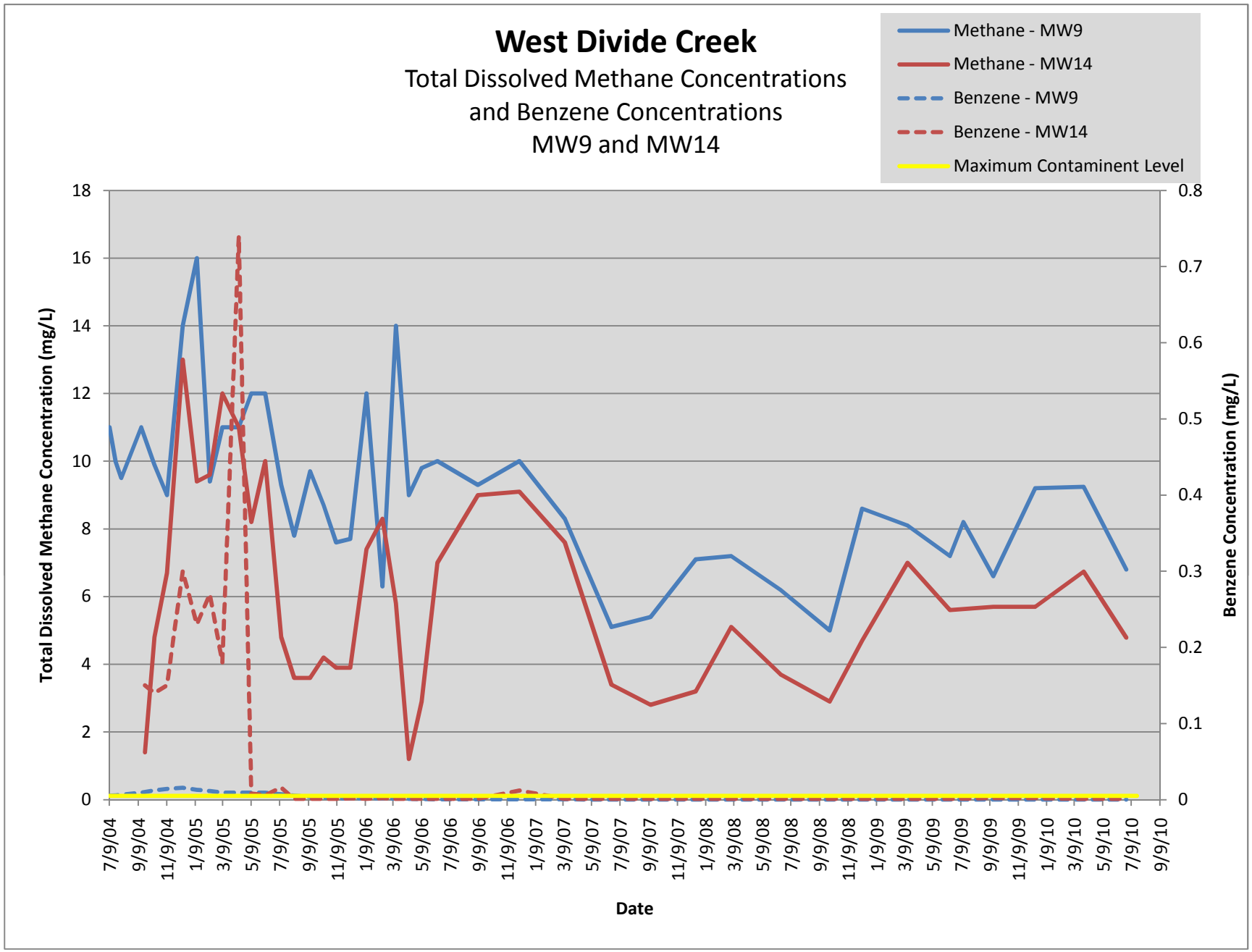
11/9/08
1/9/09
3/9/09
5/9/09
7/9/09
9/9/09
11/9/09
1/9/10
3/9/10
5/9/10
7/9/10
9/9/10


West Divide Creek
Total Dissolved Methane Concentrations
and Benzene Concentrations
MW9 and MW14
Methane - MW9
Methane - MW14
Benzene - MW9
Benzene - MW14
Maximum Contaminent Level
Total Dissolved Methane Concentration (mg/L)
Benzene Concentration (mg/L)
Date
0
2
4
6
8
10
12
14
16
18
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
7/9/04
9/9/04
11/9/04
1/9/05
3/9/05
5/9/05
7/9/05
9/9/05
11/9/05
1/9/06
3/9/06
5/9/06
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7/9/08
9/9/08
11/9/08
1/9/09
3/9/09
5/9/09
7/9/09
9/9/09
11/9/09
1/9/10
3/9/10
5/9/10
7/9/10
9/9/10

APPENDIX G

Lab Reports

Accutest Labs: report included as .pdf file on CD in back
Isotech Labs: report included as .pdf file on CD in back

Technical Report for

Olsson Associates

Divide Creek Quarterly

008-2067

Accutest Job Number: D14704

Sampling Date: 06/28/10

Report to:

Olsson Associates
826 21 1/2 Road
Grand Junction, CO 81505
bradstephenson@oaconsulting.com

ATTN: Brad Stephenson

Total number of pages in report: **69**

ACCUTEST LABORATORIES 50 YEARS 1956-2006

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Jesse L. Smith
Laboratory Director

Client Service contact: Amanda Kissell 303-425-6021

Certifications: CO, ID, NE, NM, ND (R-027) (PW) UT (NELAP CO00049)

Sections: 1 2 3 4 5 6 7

Table of Contents

-1-

Sample Summary

Olsson Associates

Job No: D14704

Divide Creek Quarterly
Project No: 008-2067

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
D14704-1	06/28/10	08:15	BS	06/29/10	AQ	Ground Water	MW6
D14704-1F	06/28/10	08:15	BS	06/29/10	AQ	Groundwater Filtered	MW6
D14704-2	06/28/10	09:00	BS	06/29/10	AQ	Ground Water	MW8
D14704-2F	06/28/10	09:00	BS	06/29/10	AQ	Groundwater Filtered	MW8
D14704-3	06/28/10	09:30	BS	06/29/10	AQ	Ground Water	MW17
D14704-3F	06/28/10	09:30	BS	06/29/10	AQ	Groundwater Filtered	MW17
D14704-4	06/28/10	10:00	BS	06/29/10	AQ	Ground Water	MW16
D14704-4F	06/28/10	10:00	BS	06/29/10	AQ	Groundwater Filtered	MW16
D14704-5	06/28/10	10:00	BS	06/29/10	AQ	Water Dup/MSD	MW16D
D14704-5F	06/28/10	10:00	BS	06/29/10	AQ	Groundwater Filtered	MW16D
D14704-6	06/28/10	10:20	BS	06/29/10	AQ	Ground Water	MW1
D14704-6F	06/28/10	10:20	BS	06/29/10	AQ	Groundwater Filtered	MW1
D14704-7	06/28/10	10:40	BS	06/29/10	AQ	Ground Water	MW2

Sample Summary
(continued)

Olsson Associates

Job No: D14704

Divide Creek Quarterly
Project No: 008-2067

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
D14704-7F	06/28/10	10:40	BS	06/29/10	AQ	Groundwater Filtered	MW2
D14704-8	06/28/10	13:00	BS	06/29/10	AQ	Ground Water	MW4
D14704-8F	06/28/10	13:00	BS	06/29/10	AQ	Groundwater Filtered	MW4
D14704-9	06/28/10	13:20	BS	06/29/10	AQ	Ground Water	MW7
D14704-9F	06/28/10	13:20	BS	06/29/10	AQ	Groundwater Filtered	MW7
D14704-10	06/28/10	13:45	BS	06/29/10	AQ	Ground Water	MW26
D14704-10F	06/28/10	13:45	BS	06/29/10	AQ	Groundwater Filtered	MW26

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Olsson Associates	**Job No**	D14704
Site:	Divide Creek Quarterly	**Report Dat**	7/7/2010 11:22:59 AM

On 06/29/2010, 10 sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 6 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D14704 was assigned to the project. The lab sample IDs, client sample IDs, and dates of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GC By Method RSK175 MOD

Matrix AQ **Batch ID:** GFB45

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Samples D14704-1MS and D14704-1MSD were used as the QC samples indicated.

Volatiles by GC By Method SW846 8021B

Matrix AQ **Batch ID:** GTA435

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Samples D14704-1MS and D14704-1MSD were used as the QC samples indicated.

Metals By Method SW846 6010B

Matrix AQ **Batch ID:** MP2214

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Samples D14617-1FMS and D14617-1FMSD were used as the QC samples for metals.

Wet Chemistry By Method EPA 300/SW846 9056

Matrix AQ **Batch ID:** GP2273

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Samples D14704-1MS and D14704-1MSD were used as the QC samples for Chloride.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW6		
Lab Sample ID:	D14704-1	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB1940.D	1	06/29/10	AS	n/a	n/a	GFB45
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.00989	0.00080	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6		
Lab Sample ID:	D14704-1	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TA7346.D	1	07/02/10	DG	n/a	n/a	GTA435
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	107%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6		
Lab Sample ID:	D14704-1	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	21.8	2.5	mg/l	5	06/30/10 10:44	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW6		
Lab Sample ID:	D14704-1F	**Date Sampled:**	06/28/10
Matrix:	AQ - Groundwater Filtered	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	97500	400	ug/l	1	06/30/10	07/01/10	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA791
(2) Prep QC Batch: MP2214

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW8		
Lab Sample ID:	D14704-2	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB1943.D	1	06/29/10	AS	n/a	n/a	GFB45
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.0192	0.00080	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8		
Lab Sample ID:	D14704-2	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TA7349.D	1	07/02/10	DG	n/a	n/a	GTA435
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	114%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8		
Lab Sample ID:	D14704-2	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	32.2	2.5	mg/l	5	06/30/10 10:56	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW8		
Lab Sample ID:	D14704-2F	**Date Sampled:**	06/28/10
Matrix:	AQ - Groundwater Filtered	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	168000	400	ug/l	1	06/30/10	07/01/10	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA791
(2) Prep QC Batch: MP2214

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW17		
Lab Sample ID:	D14704-3	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB1944.D	1	06/29/10	AS	n/a	n/a	GFB45
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.0107	0.00080	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW17		
Lab Sample ID:	D14704-3	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TA7350.D	1	07/02/10	DG	n/a	n/a	GTA435
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	115%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW17		
Lab Sample ID:	D14704-3	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	24.3	2.5	mg/l	5	06/30/10 11:07	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW17		
Lab Sample ID:	D14704-3F	**Date Sampled:**	06/28/10
Matrix:	AQ - Groundwater Filtered	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	335000	400	ug/l	1	06/30/10	07/01/10	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA791
(2) Prep QC Batch: MP2214

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW16		
Lab Sample ID:	D14704-4	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB1945.D	1	06/29/10	AS	n/a	n/a	GFB45
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.0889	0.00080	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16		
Lab Sample ID:	D14704-4	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TA7351.D	1	07/02/10	DG	n/a	n/a	GTA435
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	110%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16		
Lab Sample ID:	D14704-4	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	21.6	2.5	mg/l	5	06/30/10 11:18	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW16		
Lab Sample ID:	D14704-4F	**Date Sampled:**	06/28/10
Matrix:	AQ - Groundwater Filtered	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	197000	400	ug/l	1	06/30/10	07/01/10	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA791
(2) Prep QC Batch: MP2214

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW16D		
Lab Sample ID:	D14704-5	**Date Sampled:**	06/28/10
Matrix:	AQ - Water Dup/MSD	**Date Received:**	06/29/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB1946.D	1	06/29/10	AS	n/a	n/a	GFB45
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.0135	0.00080	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16D		
Lab Sample ID:	D14704-5	**Date Sampled:**	06/28/10
Matrix:	AQ - Water Dup/MSD	**Date Received:**	06/29/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TA7352.D	1	07/02/10	DG	n/a	n/a	GTA435
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	2.4	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	112%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16D		
Lab Sample ID:	D14704-5	**Date Sampled:**	06/28/10
Matrix:	AQ - Water Dup/MSD	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	22.4	2.5	mg/l	5	06/30/10 11:29	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW16D		
Lab Sample ID:	D14704-5F	**Date Sampled:**	06/28/10
Matrix:	AQ - Groundwater Filtered	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	209000	400	ug/l	1	06/30/10	07/01/10	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA791
(2) Prep QC Batch: MP2214

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW1		
Lab Sample ID:	D14704-6	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB1947.D	1	06/29/10	AS	n/a	n/a	GFB45
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.00080	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW1		
Lab Sample ID:	D14704-6	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TA7353.D	1	07/02/10	DG	n/a	n/a	GTA435
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	2.5	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	113%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW1		
Lab Sample ID:	D14704-6	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	31.1	2.5	mg/l	5	06/30/10 11:40	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW1		
Lab Sample ID:	D14704-6F	**Date Sampled:**	06/28/10
Matrix:	AQ - Groundwater Filtered	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	268000	400	ug/l	1	06/30/10	07/01/10	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA791
(2) Prep QC Batch: MP2214

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW2		
Lab Sample ID:	D14704-7	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB1949.D	25	06/29/10	AS	n/a	n/a	GFB45
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	8.71	0.020	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW2		
Lab Sample ID:	D14704-7	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TA7354.D	1	07/02/10	DG	n/a	n/a	GTA435
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	72.0	1.0	1.0	ug/l	
108-88-3	Toluene	3.0	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	21.3	2.0	2.0	ug/l	
95-47-6	o-Xylene	3.6	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	116%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW2		
Lab Sample ID:	D14704-7	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	42.9	2.5	mg/l	5	06/30/10 11:51	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW2		
Lab Sample ID:	D14704-7F	**Date Sampled:**	06/28/10
Matrix:	AQ - Groundwater Filtered	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	108000	400	ug/l	1	06/30/10	07/01/10	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA791
(2) Prep QC Batch: MP2214

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	D14704-8	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB1951.D	25	06/29/10	AS	n/a	n/a	GFB45
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	8.35	0.020	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	D14704-8	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TA7355.D	1	07/02/10	DG	n/a	n/a	GTA435
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	59.4	1.0	1.0	ug/l	
108-88-3	Toluene	3.0	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	2.2	2.0	2.0	ug/l	
	m,p-Xylene	18.6	2.0	2.0	ug/l	
95-47-6	o-Xylene	3.1	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	117%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	D14704-8	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	33.2	2.5	mg/l	5	06/30/10 12:03	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	D14704-8F	**Date Sampled:**	06/28/10
Matrix:	AQ - Groundwater Filtered	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	111000	400	ug/l	1	06/30/10	07/01/10	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA791
(2) Prep QC Batch: MP2214

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW7		
Lab Sample ID:	D14704-9	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB1952.D	1	06/29/10	AS	n/a	n/a	GFB45
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.00080	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7		
Lab Sample ID:	D14704-9	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TA7357.D	1	07/02/10	DG	n/a	n/a	GTA435
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	2.7	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	114%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7		
Lab Sample ID:	D14704-9	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	22.8	2.5	mg/l	5	06/30/10 12:14	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW7		
Lab Sample ID:	D14704-9F	**Date Sampled:**	06/28/10
Matrix:	AQ - Groundwater Filtered	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	117000	400	ug/l	1	06/30/10	07/01/10	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA791
(2) Prep QC Batch: MP2214

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW26		
Lab Sample ID:	D14704-10	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB1954.D	5	06/29/10	AS	n/a	n/a	GFB45
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.778	0.0040	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW26		
Lab Sample ID:	D14704-10	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TA7358.D	1	07/02/10	DG	n/a	n/a	GTA435
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	112%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW26		
Lab Sample ID:	D14704-10	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	5.3	0.50	mg/l	1	06/30/10 17:27	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW26		
Lab Sample ID:	D14704-10F	**Date Sampled:**	06/28/10
Matrix:	AQ - Groundwater Filtered	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	80900	400	ug/l	1	06/30/10	07/01/10	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA791
(2) Prep QC Batch: MP2214

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST Laboratories
4036 Youngfield Street, Wheat Ridge, Colorado 80033
TEL 303-425-6021; 877-737-4521 FAX: 303-425-6854
www.accutest.com

PAGE 1 OF 2

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: D14704

Client / Reporting Information

Company Name: Olsson Associates
Street Address: 826 21 1/2 Rd
City: GJ State: CO Zip: 81505
Project Contact: Brad Stephenson E-mail:
Phone #: Fax #:
Sampler(s) Name(s): Brad Stephenson Phone #:

Project Information

Project Name: Divide Creek quarterly
Street:
City: State:
Project #: 008-2067
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	BTEX	Diss. Methane	Na	Cl	LAB USE ONLY
	MW18		6/29/10	0815	BS	GW	3									X	X	X	X	01
	MW8			0900												X	X	X	X	02
	MW17			0930												X	X	X	X	03
	MW16			1000												X	X	X	X	04
	MW16D			1000												X	X	X	X	05
	MW1			1020												X	X	X	X	06
	MW2			1040												X	X	X	X	07
	MW4			1300												X	X	X	X	08
	MW7			1320												X	X	X	X	09
	MW26		6/29/10	1345												X	X	X	X	10

Note: Date is labeled wrong. Samples collected 6/28/10.

SH

Turnaround Time (Business days)

- Std. 10 Business Days
- UST Analysis 3-5 Days
- 6 - 9 Day *RUSH*
- 3 - 5 Day *RUSH*
- 2 Day *EMERGENCY*
- 1 Day *EMERGENCY*

Approved By (Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- Level 1
- Level 2
- Level 3
- Level 4

Level 1 = Results Only
Level 2 = Results + QC Summary + Case Narrative
Level 3 = Results + QC Summary + Partial Raw data
Level 4 = Full Deliverable

- PDF
- EDD Format
- Other

Comments / Special instructions

BTEX non preserved. BRADM
SHORT Hold

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		6/28/10 1430	1	2		2 Jaco Bporter 6-29-10 9:30
3	Relinquished by Sampler:	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	Intact / Not Intact	Preserved where applicable / On Ice / Cooler Temp. 6.2C

4.1 4

D14704: Chain of Custody
Page 1 of 1

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: D14704
Account: CORCCOGJ Olsson Associates
Project: Divide Creek Quarterly

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFB45-MB	FB1936.D	1	06/29/10	AS	n/a	n/a	GFB45

The QC reported here applies to the following samples: **Method:** RSK175 MOD

D14704-1, D14704-2, D14704-3, D14704-4, D14704-5, D14704-6, D14704-7, D14704-8, D14704-9, D14704-10

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.00080	0.00080	mg/l	

Method Blank Summary

Job Number: D14704
Account: CORCCOGJ Olsson Associates
Project: Divide Creek Quarterly

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GTA435-MB	TA7344.D	1	07/02/10	DG	n/a	n/a	GTA435

The QC reported here applies to the following samples: **Method:** SW846 8021B

D14704-1, D14704-2, D14704-3, D14704-4, D14704-5, D14704-6, D14704-7, D14704-8, D14704-9, D14704-10

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
120-82-1	1,2,4-Trichlorobenzene	113%	60-140%

Blank Spike Summary

Job Number: D14704
Account: CORCCOGJ Olsson Associates
Project: Divide Creek Quarterly

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GTA435-BS	TA7345.D	1	07/02/10	DG	n/a	n/a	GTA435

The QC reported here applies to the following samples: **Method:** SW846 8021B

D14704-1, D14704-2, D14704-3, D14704-4, D14704-5, D14704-6, D14704-7, D14704-8, D14704-9, D14704-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	27.2	27.9	103	70-130
100-41-4	Ethylbenzene	45.6	47.7	105	70-130
108-88-3	Toluene	212	216	102	70-130
95-47-6	o-Xylene	65.9	69.8	106	70-130
	m,p-Xylene	150	162	108	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	122%	60-140%

Blank Spike/Blank Spike Duplicate Summary

Job Number: D14704
Account: CORCCOGJ Olsson Associates
Project: Divide Creek Quarterly

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFB45-BS	FB1937.D	1	06/29/10	AS	n/a	n/a	GFB45
GFB45-BSD	FB1938.D	1	06/29/10	AS	n/a	n/a	GFB45

The QC reported here applies to the following samples: **Method:** RSK175 MOD

D14704-1, D14704-2, D14704-3, D14704-4, D14704-5, D14704-6, D14704-7, D14704-8, D14704-9, D14704-10

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
74-82-8	Methane	0.5094	0.586	115	0.549	108	7	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D14704
Account: CORCCOGJ Olsson Associates
Project: Divide Creek Quarterly

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D14704-1MS	FB1941.D	10	06/29/10	AS	n/a	n/a	GFB45
D14704-1MSD	FB1942.D	10	06/29/10	AS	n/a	n/a	GFB45
D14704-1	FB1940.D	1	06/29/10	AS	n/a	n/a	GFB45

The QC reported here applies to the following samples: **Method:** RSK175 MOD

D14704-1, D14704-2, D14704-3, D14704-4, D14704-5, D14704-6, D14704-7, D14704-8, D14704-9, D14704-10

CAS No.	Compound	D14704-1 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
74-82-8	Methane	0.00989		0.5094	0.550	106	0.553	107	0	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D14704
Account: CORCCOGJ Olsson Associates
Project: Divide Creek Quarterly

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D14704-1MS	TA7347.D	1	07/02/10	DG	n/a	n/a	GTA435
D14704-1MSD	TA7348.D	1	07/02/10	DG	n/a	n/a	GTA435
D14704-1	TA7346.D	1	07/02/10	DG	n/a	n/a	GTA435

The QC reported here applies to the following samples: **Method:** SW846 8021B

D14704-1, D14704-2, D14704-3, D14704-4, D14704-5, D14704-6, D14704-7, D14704-8, D14704-9, D14704-10

CAS No.	Compound	D14704-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		27.2	27.1	100	27.8	102	3	70-130/30
100-41-4	Ethylbenzene	ND		45.6	46.2	101	47.2	104	2	62-130/30
108-88-3	Toluene	ND		212	207	98	212	100	2	70-130/30
95-47-6	o-Xylene	ND		65.9	67.4	102	69.2	105	3	63-130/30
	m,p-Xylene	ND		150	157	105	161	107	3	70-134/30

CAS No.	Surrogate Recoveries	MS	MSD	D14704-1	Limits
120-82-1	1,2,4-Trichlorobenzene	122%	121%	107%	60-140%

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D14704
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

QC Batch ID: MP2214
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 06/30/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	100	7	49		
Antimony	30	1.7	13		
Arsenic	25	2.8	6.5		
Barium	10	.14	2.4		
Beryllium	10	1.4	4.4		
Boron	50	3.5	19		
Cadmium	10	.22	1.2		
Calcium	400	17	9.2		
Chromium	10	.27	1.6		
Cobalt	5.0	.48	.3		
Copper	5.0	1.6	2.7		
Iron	70	7.7	10		
Lead	50	1.3	3.2		
Lithium	2.0	.76	1.6		
Magnesium	200	5.8	12		
Manganese	5.0	.21	.7		
Molybdenum	10	.41	1.2		
Nickel	30	.38	.6		
Phosphorus	100	15	54		
Potassium	1000	380	540		
Selenium	50	2.8	7.2		
Silicon	50	12	20		
Silver	30	.98	.3		
Sodium	400	230	23	51.2	<400
Strontium	5.0	.091	3.4		
Thallium	10	3.1	2.1		
Tin	50	14	4.4		
Titanium	10	.098	.7		
Uranium	50	2.2	3.9		
Vanadium	10	.27	.3		
Zinc	30	.76	1.7		

Associated samples MP2214: D14704-1F, D14704-2F, D14704-3F, D14704-4F, D14704-5F, D14704-6F, D14704-7F, D14704-8F, D14704-9F, D14704-10F

Results < IDL are shown as zero for calculation purposes

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D14704
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

QC Batch ID: MP2214
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14704
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

QC Batch ID: MP2214 Methods: SW846 6010B
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 06/30/10

Metal	D14617-1F Original MS		Spikelot MPICPALL	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Boron					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Lithium					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Phosphorus					
Potassium					
Selenium					
Silicon					
Silver					
Sodium	5790	31500	25000	102.8	75-125
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc					

Associated samples MP2214: D14704-1F, D14704-2F, D14704-3F, D14704-4F, D14704-5F, D14704-6F, D14704-7F, D14704-8F, D14704-9F, D14704-10F

Results < IDL are shown as zero for calculation purposes

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14704
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

QC Batch ID: MP2214
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14704
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

QC Batch ID: MP2214 Methods: SW846 6010B
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 06/30/10

Metal	D14617-1F Original MSD	Spikelot MPICPALL % Rec		MSD RPD	QC Limit
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Boron					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Lithium					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Phosphorus					
Potassium					
Selenium					
Silicon					
Silver					
Sodium	5790	31600	25000	103.2	0.3	20
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc					

Associated samples MP2214: D14704-1F, D14704-2F, D14704-3F, D14704-4F, D14704-5F, D14704-6F, D14704-7F, D14704-8F, D14704-9F, D14704-10F

Results < IDL are shown as zero for calculation purposes

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14704
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

QC Batch ID: MP2214
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D14704
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

QC Batch ID: MP2214
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 06/30/10

Metal	BSP Result	Spikelot MPICPALL	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium	26000	25000	104.0	80-120
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP2214: D14704-1F, D14704-2F, D14704-3F, D14704-4F, D14704-5F, D14704-6F, D14704-7F, D14704-8F, D14704-9F, D14704-10F

Results < IDL are shown as zero for calculation purposes

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D14704
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

QC Batch ID: MP2214
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

(*) Outside of QC limits
(anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D14704
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP2273/GN5165	0.50	0.0	mg/l	20	21.0	105.0	90-110%

Associated Samples:
Batch GP2273: D14704-1, D14704-10, D14704-2, D14704-3, D14704-4, D14704-5, D14704-6, D14704-7, D14704-8, D14704-9
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D14704
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP2273/GN5165	D14704-1	mg/l	21.8	50	72.8	102.0	80-120%

Associated Samples:
Batch GP2273: D14704-1, D14704-10, D14704-2, D14704-3, D14704-4, D14704-5, D14704-6, D14704-7, D14704-8, D14704-9
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D14704
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chloride	GP2273/GN5165	D14704-1	mg/l	21.8	50	73.0	0.3	20%

Associated Samples:
Batch GP2273: D14704-1, D14704-10, D14704-2, D14704-3, D14704-4, D14704-5, D14704-6, D14704-7, D14704-8, D14704-9
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Mountain States ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

07/07/10

Technical Report for

Olsson Associates

Divide Creek Quarterly

Accutest Job Number: D14705

Sampling Date: 06/28/10

Report to:

Olsson Associates
826 21 1/2 Road
Grand Junction, CO 81505
bradstephenson@oaconsulting.com

ATTN: Brad Stephenson

Total number of pages in report: **61**

ACCUTEST LABORATORIES 50 YEARS 1956-2006

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Jesse L. Smith
Laboratory Director

Client Service contact: Amanda Kissell 303-425-6021

Certifications: CO, ID, NE, NM, ND (R-027) (PW) UT (NELAP CO00049)

Sections: 1 2 3 4 5 6 7

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Accutest Laboratories

Sample Summary

Olsson Associates

Job No: D14705

Divide Creek Quarterly

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
D14705-1	06/28/10	10:00	SH	06/29/10	AQ	Ground Water	MW23
D14705-1F	06/28/10	10:00	SH	06/29/10	AQ	Groundwater Filtered	MW23
D14705-2	06/28/10	10:00	SH	06/29/10	AQ	Ground Water	MW23-D
D14705-2F	06/28/10	10:00	SH	06/29/10	AQ	Groundwater Filtered	MW23-D
D14705-3	06/28/10	10:30	SH	06/29/10	AQ	Ground Water	MW27
D14705-3F	06/28/10	10:30	SH	06/29/10	AQ	Groundwater Filtered	MW27
D14705-4	06/28/10	11:05	SH	06/29/10	AQ	Ground Water	MW14
D14705-4F	06/28/10	11:05	SH	06/29/10	AQ	Groundwater Filtered	MW14
D14705-5	06/28/10	11:25	SH	06/29/10	AQ	Ground Water	MW9
D14705-5F	06/28/10	11:25	SH	06/29/10	AQ	Groundwater Filtered	MW9
D14705-6	06/28/10	12:00	SH	06/29/10	AQ	Ground Water	MW25
D14705-6F	06/28/10	12:00	SH	06/29/10	AQ	Groundwater Filtered	MW25
D14705-7	06/28/10	12:20	SH	06/29/10	AQ	Ground Water	MW11

Sample Summary
(continued)

Olsson Associates

Job No: D14705

Divide Creek Quarterly

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
D14705-7F	06/28/10	12:20	SH	06/29/10	AQ	Groundwater Filtered	MW11
D14705-8	06/28/10	12:45	SH	06/29/10	AQ	Ground Water	MW12
D14705-8F	06/28/10	12:45	SH	06/29/10	AQ	Groundwater Filtered	MW12

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Olsson Associates	**Job No**	D14705
Site:	Divide Creek Quarterly	**Report Dat**	7/7/2010 1:25:17 PM

On 06/29/2010, eight (8) samples, 0 Trip Blanks, and 0 Field Blanks were received at Accutest Mountain States (AMS) at a temperature of 6.0°C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D14705 was assigned to the project. The lab sample IDs, client sample IDs, and dates of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GC By Method RSK175 MOD

Matrix AQ **Batch ID:** GFB45

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Samples D14704-1MS and D14704-1MSD were used as the QC samples indicated.

Volatiles by GC By Method SW846 8021B

Matrix AQ **Batch ID:** GTA435

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Samples D14704-1MS and D14704-1MSD were used as the QC samples indicated.

Metals By Method SW846 6010B

Matrix AQ **Batch ID:** MP2214

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Samples D14617-1FMS and D14617-1FMSD were used as the QC samples for the metals analysis.

Wet Chemistry By Method EPA 300/SW846 9056

Matrix AQ **Batch ID:** GP2280

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Samples D14705-3MS and D14705-3MSD were used as the QC samples for the Chloride analysis.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW23		
Lab Sample ID:	D14705-1	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB1956.D	1	06/29/10	AS	n/a	n/a	GFB45
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.00080	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW23		
Lab Sample ID:	D14705-1	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TA7359.D	1	07/02/10	DG	n/a	n/a	GTA435
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	112%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW23		
Lab Sample ID:	D14705-1	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	27.8	1.0	mg/l	2	06/30/10 14:28	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW23		
Lab Sample ID:	D14705-1F	**Date Sampled:**	06/28/10
Matrix:	AQ - Groundwater Filtered	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	329000	400	ug/l	1	06/30/10	07/01/10	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA791
(2) Prep QC Batch: MP2214

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW23-D		
Lab Sample ID:	D14705-2	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB1957.D	1	06/29/10	AS	n/a	n/a	GFB45
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.00080	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW23-D		
Lab Sample ID:	D14705-2	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TA7360.D	1	07/02/10	DG	n/a	n/a	GTA435
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	113%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW23-D		
Lab Sample ID:	D14705-2	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	28.2	1.0	mg/l	2	06/30/10 14:39	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW23-D		
Lab Sample ID:	D14705-2F	**Date Sampled:**	06/28/10
Matrix:	AQ - Groundwater Filtered	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	332000	400	ug/l	1	06/30/10	07/01/10	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA791
(2) Prep QC Batch: MP2214

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW27		
Lab Sample ID:	D14705-3	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB1958.D	1	06/29/10	AS	n/a	n/a	GFB45
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.00080	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW27		
Lab Sample ID:	D14705-3	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TA7361.D	1	07/02/10	DG	n/a	n/a	GTA435
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	2.1	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	112%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW27		
Lab Sample ID:	D14705-3	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	22.1	1.0	mg/l	2	06/30/10 15:13	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW27		
Lab Sample ID:	D14705-3F	**Date Sampled:**	06/28/10
Matrix:	AQ - Groundwater Filtered	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	155000	400	ug/l	1	06/30/10	07/01/10	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA791
(2) Prep QC Batch: MP2214

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW14		
Lab Sample ID:	D14705-4	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB1960.D	10	06/29/10	AS	n/a	n/a	GFB45
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	4.79	0.0080	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW14		
Lab Sample ID:	D14705-4	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TA7362.D	1	07/02/10	DG	n/a	n/a	GTA435
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	109%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW14		
Lab Sample ID:	D14705-4	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	12.5	1.0	mg/l	2	06/30/10 15:47	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW14		
Lab Sample ID:	D14705-4F	**Date Sampled:**	06/28/10
Matrix:	AQ - Groundwater Filtered	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	43000	400	ug/l	1	06/30/10	07/01/10	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA791
(2) Prep QC Batch: MP2214

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW9		
Lab Sample ID:	D14705-5	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB1962.D	25	06/29/10	AS	n/a	n/a	GFB45
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	6.80	0.020	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW9		
Lab Sample ID:	D14705-5	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TA7363.D	1	07/02/10	DG	n/a	n/a	GTA435
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.8	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	114%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW9		
Lab Sample ID:	D14705-5	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	19.8	1.0	mg/l	2	06/30/10 15:58	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW9		
Lab Sample ID:	D14705-5F	**Date Sampled:**	06/28/10
Matrix:	AQ - Groundwater Filtered	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	53400	400	ug/l	1	06/30/10	07/01/10	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA791
(2) Prep QC Batch: MP2214

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW25		
Lab Sample ID:	D14705-6	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB1963.D	1	06/29/10	AS	n/a	n/a	GFB45
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.0103	0.00080	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW25		
Lab Sample ID:	D14705-6	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TA7364.D	1	07/02/10	DG	n/a	n/a	GTA435
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	2.0	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	114%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW25		
Lab Sample ID:	D14705-6	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	16.5	1.0	mg/l	2	06/30/10 16:09	GH	EPA 300/SW846 9056

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW25		
Lab Sample ID:	D14705-6F	**Date Sampled:**	06/28/10
Matrix:	AQ - Groundwater Filtered	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	33100	400	ug/l	1	06/30/10	07/01/10	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA791
(2) Prep QC Batch: MP2214

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW11		
Lab Sample ID:	D14705-7	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB1964.D	1	06/29/10	AS	n/a	n/a	GFB45
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.0615	0.00080	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW11		
Lab Sample ID:	D14705-7	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TA7365.D	1	07/02/10	DG	n/a	n/a	GTA435
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	2.3	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	2.7	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	119%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW11		
Lab Sample ID:	D14705-7	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	19.7	1.0	mg/l	2	06/30/10 16:20	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW11		
Lab Sample ID:	D14705-7F	**Date Sampled:**	06/28/10
Matrix:	AQ - Groundwater Filtered	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	35900	400	ug/l	1	06/30/10	07/01/10	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA791
(2) Prep QC Batch: MP2214

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW12		
Lab Sample ID:	D14705-8	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB1966.D	5	06/29/10	AS	n/a	n/a	GFB45
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.672	0.0040	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW12		
Lab Sample ID:	D14705-8	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TA7366.D	1	07/02/10	DG	n/a	n/a	GTA435
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	115%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW12		
Lab Sample ID:	D14705-8	**Date Sampled:**	06/28/10
Matrix:	AQ - Ground Water	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	23.2	1.0	mg/l	2	06/30/10 16:31	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW12		
Lab Sample ID:	D14705-8F	**Date Sampled:**	06/28/10
Matrix:	AQ - Groundwater Filtered	**Date Received:**	06/29/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	81200	400	ug/l	1	06/30/10	07/01/10	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA791
(2) Prep QC Batch: MP2214

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST Laboratories

4036 Youngfield Street, Wheat Ridge, Colorado 80033
TEL. 303-425-6021; 877-737-4521 FAX: 303-425-6854
www.accutest.com

D14705
~~D14764~~

PAGE 2 OF 2

FED-EX Tracking # | Bottle Order Control #
Accutest Quote # | Accutest Job #

Client / Reporting Information

Company Name: Olsson Associates
Street Address:
City State Zip:
Project Contact: E-mail:
Phone #: Fax #:
Sampler(s) Name(s): Stuart Hall Phone #:

Project Information

Project Name: Divide Creek Quarterly
Street:
City State:
Project #:
Client Purchase Order #:
Project Manager:
Attention:

Billing Information (if different from Report to)

Company Name:
Street Address:
City State Zip:

Requested Analysis (see TEST CODE sheet)

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	BTEX	Diss. Methane	2a	CL	LAB USE ONLY
	MW23		6/22/10	1000	SH	GW	8									X	X	X		01
	MW23-D			1000	SH											X	X	X		02
	MW24			1030	SH											X	X	X		03
	MW14			1105	SH											X	X	X		04
	MW9			1125	SH											X	X	X		05
	MW25			1200	SH											X	X	X		06
	MW11			1220	SH											X	X	X		07
	MW18			1245	SH		1									X	X	X		08
																				~~09~~

Turnaround Time (Business days)

- ☐ Std. 10 Business Days
- ☐ UST Analysis 3-5 Days
- ☐ 6 - 9 Day *RUSH*
- ☐ 3 - 5 Day *RUSH*
- ☐ 2 Day *EMERGENCY*
- ☐ 1 Day *EMERGENCY*

Approved By (Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- ☐ Level 1
- ☐ Level 2
- ☐ Level 3
- ☐ Level 4
- ☐ PDF
- ☐ EDD Format
- ☐ Other

Level 1 = Results Only
Level 2 = Results + QC Summary + Case Narrative
Level 3 = Results + QC Summary + Partial Raw data
Level 4 = Full Deliverable

Comments / Special Instructions

Note: D14705-7 one each for methane and BTEX 11 limited
Reed Boulder BRB/m

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		6/28/10 1630	1	2		2 Jacob Porter 6-29-10 9:30
3	Relinquished by Sampler:	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal # ☒ Intact ☐ Not Intact	Preserved where applicable ☒	On Ice ☒ Cooler Temp. 6.0

D14705: Chain of Custody
Page 1 of 1

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: D14705
Account: CORCCOGJ Olsson Associates
Project: Divide Creek Quarterly

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFB45-MB	FB1936.D	1	06/29/10	AS	n/a	n/a	GFB45

The QC reported here applies to the following samples: **Method:** RSK175 MOD

D14705-1, D14705-2, D14705-3, D14705-4, D14705-5, D14705-6, D14705-7, D14705-8

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.00080	0.00080	mg/l	

Method Blank Summary

Job Number: D14705
Account: CORCCOGJ Olsson Associates
Project: Divide Creek Quarterly

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GTA435-MB	TA7344.D	1	07/02/10	DG	n/a	n/a	GTA435

The QC reported here applies to the following samples: **Method:** SW846 8021B

D14705-1, D14705-2, D14705-3, D14705-4, D14705-5, D14705-6, D14705-7, D14705-8

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
120-82-1	1,2,4-Trichlorobenzene	113%	60-140%

Blank Spike Summary

Job Number: D14705
Account: CORCCOGJ Olsson Associates
Project: Divide Creek Quarterly

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GTA435-BS	TA7345.D	1	07/02/10	DG	n/a	n/a	GTA435

The QC reported here applies to the following samples: **Method:** SW846 8021B

D14705-1, D14705-2, D14705-3, D14705-4, D14705-5, D14705-6, D14705-7, D14705-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	27.2	27.9	103	70-130
100-41-4	Ethylbenzene	45.6	47.7	105	70-130
108-88-3	Toluene	212	216	102	70-130
95-47-6	o-Xylene	65.9	69.8	106	70-130
	m,p-Xylene	150	162	108	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	122%	60-140%

Blank Spike/Blank Spike Duplicate Summary

Job Number: D14705
Account: CORCCOGJ Olsson Associates
Project: Divide Creek Quarterly

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFB45-BS	FB1937.D	1	06/29/10	AS	n/a	n/a	GFB45
GFB45-BSD	FB1938.D	1	06/29/10	AS	n/a	n/a	GFB45

The QC reported here applies to the following samples: **Method:** RSK175 MOD

D14705-1, D14705-2, D14705-3, D14705-4, D14705-5, D14705-6, D14705-7, D14705-8

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
74-82-8	Methane	0.5094	0.586	115	0.549	108	7	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D14705
Account: CORCCOGJ Olsson Associates
Project: Divide Creek Quarterly

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D14704-1MS	FB1941.D	10	06/29/10	AS	n/a	n/a	GFB45
D14704-1MSD	FB1942.D	10	06/29/10	AS	n/a	n/a	GFB45
D14704-1	FB1940.D	1	06/29/10	AS	n/a	n/a	GFB45

The QC reported here applies to the following samples: **Method:** RSK175 MOD

D14705-1, D14705-2, D14705-3, D14705-4, D14705-5, D14705-6, D14705-7, D14705-8

CAS No.	Compound	D14704-1 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
74-82-8	Methane	0.00989		0.5094	0.550	106	0.553	107	0	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D14705
Account: CORCCOGJ Olsson Associates
Project: Divide Creek Quarterly

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D14704-1MS	TA7347.D	1	07/02/10	DG	n/a	n/a	GTA435
D14704-1MSD	TA7348.D	1	07/02/10	DG	n/a	n/a	GTA435
D14704-1	TA7346.D	1	07/02/10	DG	n/a	n/a	GTA435

The QC reported here applies to the following samples: **Method:** SW846 8021B

D14705-1, D14705-2, D14705-3, D14705-4, D14705-5, D14705-6, D14705-7, D14705-8

CAS No.	Compound	D14704-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		27.2	27.1	100	27.8	102	3	70-130/30
100-41-4	Ethylbenzene	ND		45.6	46.2	101	47.2	104	2	62-130/30
108-88-3	Toluene	ND		212	207	98	212	100	2	70-130/30
95-47-6	o-Xylene	ND		65.9	67.4	102	69.2	105	3	63-130/30
	m,p-Xylene	ND		150	157	105	161	107	3	70-134/30

CAS No.	Surrogate Recoveries	MS	MSD	D14704-1	Limits
120-82-1	1,2,4-Trichlorobenzene	122%	121%	107%	60-140%

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D14705
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

QC Batch ID: MP2214
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 06/30/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	100	7	49		
Antimony	30	1.7	13		
Arsenic	25	2.8	6.5		
Barium	10	.14	2.4		
Beryllium	10	1.4	4.4		
Boron	50	3.5	19		
Cadmium	10	.22	1.2		
Calcium	400	17	9.2		
Chromium	10	.27	1.6		
Cobalt	5.0	.48	.3		
Copper	5.0	1.6	2.7		
Iron	70	7.7	10		
Lead	50	1.3	3.2		
Lithium	2.0	.76	1.6		
Magnesium	200	5.8	12		
Manganese	5.0	.21	.7		
Molybdenum	10	.41	1.2		
Nickel	30	.38	.6		
Phosphorus	100	15	54		
Potassium	1000	380	540		
Selenium	50	2.8	7.2		
Silicon	50	12	20		
Silver	30	.98	.3		
Sodium	400	230	23	51.2	<400
Strontium	5.0	.091	3.4		
Thallium	10	3.1	2.1		
Tin	50	14	4.4		
Titanium	10	.098	.7		
Uranium	50	2.2	3.9		
Vanadium	10	.27	.3		
Zinc	30	.76	1.7		

Associated samples MP2214: D14705-1F, D14705-2F, D14705-3F, D14705-4F, D14705-5F, D14705-6F, D14705-7F, D14705-8F

Results < IDL are shown as zero for calculation purposes

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D14705
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

QC Batch ID: MP2214
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14705
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

QC Batch ID: MP2214 Methods: SW846 6010B
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 06/30/10

Metal	D14617-1F Original MS		Spikelot MPICPALL	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Boron					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Lithium					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Phosphorus					
Potassium					
Selenium					
Silicon					
Silver					
Sodium	5790	31500	25000	102.8	75-125
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc					

Associated samples MP2214: D14705-1F, D14705-2F, D14705-3F, D14705-4F, D14705-5F, D14705-6F, D14705-7F, D14705-8F

Results < IDL are shown as zero for calculation purposes

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14705
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

QC Batch ID: MP2214
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14705
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

QC Batch ID: MP2214 Methods: SW846 6010B
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 06/30/10

Metal	D14617-1F Original MSD		Spikelot MPICPALL % Rec		MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Lithium						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Phosphorus						
Potassium						
Selenium						
Silicon						
Silver						
Sodium	5790	31600	25000	103.2	0.3	20
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc						

Associated samples MP2214: D14705-1F, D14705-2F, D14705-3F, D14705-4F, D14705-5F, D14705-6F, D14705-7F, D14705-8F

Results < IDL are shown as zero for calculation purposes

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14705
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

QC Batch ID: MP2214
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D14705
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

QC Batch ID: MP2214 Methods: SW846 6010B
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 06/30/10

Metal	BSP Result	Spikelot MPICPALL	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium	26000	25000	104.0	80-120
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP2214: D14705-1F, D14705-2F, D14705-3F, D14705-4F, D14705-5F, D14705-6F, D14705-7F, D14705-8F

Results < IDL are shown as zero for calculation purposes

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D14705
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

QC Batch ID: MP2214
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

(*) Outside of QC limits
(anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D14705
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP2280/GN5165	0.50	0.30	mg/l	20	21.2	106.0	90-110%

Associated Samples:
Batch GP2280: D14705-1, D14705-2, D14705-3, D14705-4, D14705-5, D14705-6, D14705-7, D14705-8
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D14705
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP2280/GN5165	D14705-3	mg/l	22.1	20	44.3	111.0	80-120%

Associated Samples:
Batch GP2280: D14705-1, D14705-2, D14705-3, D14705-4, D14705-5, D14705-6, D14705-7, D14705-8
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D14705
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chloride	GP2280/GN5165	D14705-3	mg/l	22.1	20	44.1	0.5	20%

Associated Samples:
Batch GP2280: D14705-1, D14705-2, D14705-3, D14705-4, D14705-5, D14705-6, D14705-7, D14705-8
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Mountain States ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

07/09/10

Technical Report for

Olsson Associates

Divide Creek Quarterly

Accutest Job Number: D14773

Sampling Date: 06/29/10

Report to:

Olsson Associates
826 21 1/2 Road
Grand Junction, CO 81505
bradstephenson@oaconsulting.com

ATTN: Brad Stephenson

Total number of pages in report: **97**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Jesse L. Smith
Laboratory Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Client Service contact: Amanda Kissell 303-425-6021

Certifications: CO, ID, NE, NM, ND (R-027) (PW) UT (NELAP CO00049)

Sections: 1 2 3 4 5 6 7

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Sections: 1 2 3 4 5 6 7

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Accutest Laboratories

Sample Summary

Olsson Associates

Job No: D14773

Divide Creek Quarterly

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
D14773-1	06/29/10	09:10	SH	06/30/10	AQ	Water	DCS1
D14773-1F	06/29/10	09:10	SH	06/30/10	AQ	Water	DCS1
D14773-2	06/29/10	09:20	SH	06/30/10	AQ	Water	DCS2
D14773-2F	06/29/10	09:20	SH	06/30/10	AQ	Water	DCS2
D14773-3	06/29/10	09:25	SH	06/30/10	AQ	Water	DCS3
D14773-3F	06/29/10	09:25	SH	06/30/10	AQ	Water	DCS3
D14773-4	06/29/10	09:45	SH	06/30/10	AQ	Water	MW15
D14773-4F	06/29/10	09:45	SH	06/30/10	AQ	Water	MW15
D14773-5	06/29/10	10:00	SH	06/30/10	AQ	Water	DCS4
D14773-5F	06/29/10	10:00	SH	06/30/10	AQ	Water	DCS4
D14773-6	06/29/10	10:15	SH	06/30/10	AQ	Water	DCS5
D14773-6F	06/29/10	10:15	SH	06/30/10	AQ	Water	DCS5
D14773-7	06/29/10	10:30	SH	06/30/10	AQ	Water	MW20

Accutest Laboratories

Sample Summary
(continued)

Olsson Associates

Job No: D14773

Divide Creek Quarterly

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
D14773-7F	06/29/10	10:30	SH	06/30/10	AQ	Water	MW20
D14773-8	06/29/10	11:00	SH	06/30/10	AQ	Water	MW21
D14773-8F	06/29/10	11:00	SH	06/30/10	AQ	Water	MW21
D14773-9	06/29/10	11:20	SH	06/30/10	AQ	Water	MW22
D14773-9F	06/29/10	11:20	SH	06/30/10	AQ	Water	MW22
D14773-10	06/29/10	11:50	SH	06/30/10	AQ	Water	EICH2
D14773-10F	06/29/10	11:50	SH	06/30/10	AQ	Water	EICH2
D14773-11	06/29/10	12:25	SH	06/30/10	AQ	Water	MW24
D14773-11F	06/29/10	12:25	SH	06/30/10	AQ	Water	MW24
D14773-12	06/29/10	11:30	SH	06/30/10	AQ	Water	DCS6
D14773-12F	06/29/10	11:30	SH	06/30/10	AQ	Water	DCS6
D14773-13	06/29/10	11:50	SH	06/30/10	AQ	Water	DCS7
D14773-13F	06/29/10	11:50	SH	06/30/10	AQ	Water	DCS7

Sample Summary
(continued)

Olsson Associates

Job No: D14773

Divide Creek Quarterly

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
D14773-14	06/29/10	12:10	SH	06/30/10	AQ	Water	MW18
D14773-14F	06/29/10	12:10	SH	06/30/10	AQ	Water	MW18
D14773-15	06/29/10	12:30	SH	06/30/10	AQ	Water	DCS8
D14773-15F	06/29/10	12:30	SH	06/30/10	AQ	Water	DCS8

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Olsson Associates	**Job No**	D14773
Site:	Divide Creek Quarterly	**Report Dat**	7/9/2010 2:38:39 PM

On 06/30/2010, 15 samples, 0 Trip Blanks, and 0 Field Blanks were received at Accutest Mountain States (AMS) at a temperature of 4.0°C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D14773 was assigned to the project. The lab sample IDs, client sample IDs, and dates of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GC By Method RSK175 MOD

Matrix AQ **Batch ID:** GFB46

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Samples D14707-1MS and D14707-1MSD were used as the QC samples indicated.

Matrix AQ **Batch ID:** GFB47

- All samples were analyzed within the recommended method holding time.
- Samples D14773-11MS and D14773-11MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Volatiles by GC By Method SW846 8021B

Matrix AQ **Batch ID:** GTB300

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Samples D14773-1MS and D14773-1MSD were used as the QC samples indicated.

Metals By Method SW846 6010B

Matrix AQ **Batch ID:** MP2243

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Samples D14834-1FMS and D14834-1FMSD were used as the QC samples for the metals analysis.

Matrix AQ **Batch ID:** MP2249

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Samples D14676-1MS and D14676-1MSD were used as the QC samples for the metals analysis.

Wet Chemistry By Method EPA 300/SW846 9056

Matrix	AQ	Batch ID:	GP2283

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Samples D14773-4MS and D14773-4MSD were used as the QC samples for the Chloride analysis.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	DCS1		
Lab Sample ID:	D14773-1	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB1992.D	1	07/02/10	AS	n/a	n/a	GFB46
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.00186	0.00080	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DCS1		
Lab Sample ID:	D14773-1	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5500.D	1	07/03/10	DG	n/a	n/a	GTB300
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	2.6	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	97%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DCS1		
Lab Sample ID:	D14773-1	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	10.6	1.0	mg/l	2	07/02/10 09:48	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DCS1		
Lab Sample ID:	D14773-1F	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	64300	400	ug/l	1	07/02/10	07/08/10	SH	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA806
(2) Prep QC Batch: MP2243

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DCS2		
Lab Sample ID:	D14773-2	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB1993.D	1	07/02/10	AS	n/a	n/a	GFB46
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.0013	0.00080	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DCS2		
Lab Sample ID:	D14773-2	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5503.D	1	07/03/10	DG	n/a	n/a	GTB300
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	104%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DCS2		
Lab Sample ID:	D14773-2	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	10.5	1.0	mg/l	2	07/02/10 09:59	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DCS2		
Lab Sample ID:	D14773-2F	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	64600	400	ug/l	1	07/02/10	07/08/10	SH	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA806
(2) Prep QC Batch: MP2243

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DCS3		
Lab Sample ID:	D14773-3	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB1994.D	1	07/02/10	AS	n/a	n/a	GFB46
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.0010	0.00080	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DCS3		
Lab Sample ID:	D14773-3	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5504.D	1	07/03/10	DG	n/a	n/a	GTB300
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	101%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DCS3		
Lab Sample ID:	D14773-3	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	10.5	1.0	mg/l	2	07/02/10 10:10	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DCS3		
Lab Sample ID:	D14773-3F	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	63200	400	ug/l	1	07/02/10	07/08/10	SH	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA806
(2) Prep QC Batch: MP2243

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW15		
Lab Sample ID:	D14773-4	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB1995.D	1	07/02/10	AS	n/a	n/a	GFB46
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.00080	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW15		
Lab Sample ID:	D14773-4	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5505.D	1	07/03/10	DG	n/a	n/a	GTB300
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	100%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW15		
Lab Sample ID:	D14773-4	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	3.8	0.50	mg/l	1	07/02/10 13:09	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW15		
Lab Sample ID:	D14773-4F	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	46700	400	ug/l	1	07/06/10	07/07/10	SH	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA805
(2) Prep QC Batch: MP2249

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DCS4		
Lab Sample ID:	D14773-5	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB1996.D	1	07/02/10	AS	n/a	n/a	GFB46
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.00165	0.00080	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DCS4		
Lab Sample ID:	D14773-5	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5506.D	1	07/03/10	DG	n/a	n/a	GTB300
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	103%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DCS4		
Lab Sample ID:	D14773-5	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	10.4	1.0	mg/l	2	07/02/10 10:33	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DCS4		
Lab Sample ID:	D14773-5F	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	61500	400	ug/l	1	07/06/10	07/07/10	SH	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA805
(2) Prep QC Batch: MP2249

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DCS5		
Lab Sample ID:	D14773-6	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB1997.D	1	07/02/10	AS	n/a	n/a	GFB46
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.00176	0.00080	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DCS5		
Lab Sample ID:	D14773-6	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5507.D	1	07/03/10	DG	n/a	n/a	GTB300
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	103%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	DCS5		
Lab Sample ID:	D14773-6	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	10.2	1.0	mg/l	2	07/02/10 10:44	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DCS5		
Lab Sample ID:	D14773-6F	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	61300	400	ug/l	1	07/06/10	07/07/10	SH	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA805
(2) Prep QC Batch: MP2249

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW20		
Lab Sample ID:	D14773-7	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB1998.D	1	07/02/10	AS	n/a	n/a	GFB46
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.00369	0.00080	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW20		
Lab Sample ID:	D14773-7	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5508.D	1	07/03/10	DG	n/a	n/a	GTB300
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	109%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW20		
Lab Sample ID:	D14773-7	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	19.0	1.0	mg/l	2	07/02/10 10:55	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW20
Lab Sample ID: D14773-7F
Matrix: AQ - Water
Project: Divide Creek Quarterly

Date Sampled: 06/29/10
Date Received: 06/30/10
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	93500	400	ug/l	1	07/06/10	07/07/10	SH	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA805
(2) Prep QC Batch: MP2249

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW21		
Lab Sample ID:	D14773-8	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB1999.D	1	07/02/10	AS	n/a	n/a	GFB46
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.00156	0.00080	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW21
Lab Sample ID: D14773-8
Matrix: AQ - Water
Method: SW846 8021B
Project: Divide Creek Quarterly

Date Sampled: 06/29/10
Date Received: 06/30/10
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5510.D	1	07/03/10	DG	n/a	n/a	GTB300
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	108%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW21		
Lab Sample ID:	D14773-8	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	18.3	1.0	mg/l	2	07/02/10 11:06	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW21		
Lab Sample ID:	D14773-8F	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	214000	400	ug/l	1	07/06/10	07/07/10	SH	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA805
(2) Prep QC Batch: MP2249

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW22		
Lab Sample ID:	D14773-9	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB2000.D	1	07/02/10	AS	n/a	n/a	GFB46
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.00080	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW22
Lab Sample ID: D14773-9
Matrix: AQ - Water
Method: SW846 8021B
Project: Divide Creek Quarterly

Date Sampled: 06/29/10
Date Received: 06/30/10
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5511.D	1	07/03/10	DG	n/a	n/a	GTB300
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	105%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW22		
Lab Sample ID:	D14773-9	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	39.7	1.0	mg/l	2	07/02/10 11:17	GH	EPA 300/SW846 9056

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	MW22		
Lab Sample ID:	D14773-9F	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	137000	400	ug/l	1	07/06/10	07/07/10	SH	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA805
(2) Prep QC Batch: MP2249

RL = Reporting Limit

Report of Analysis

Client Sample ID:	EICH2		
Lab Sample ID:	D14773-10	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB2001.D	1	07/02/10	AS	n/a	n/a	GFB46
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.0140	0.00080	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EICH2		
Lab Sample ID:	D14773-10	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5512.D	1	07/03/10	DG	n/a	n/a	GTB300
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	93%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EICH2		
Lab Sample ID:	D14773-10	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	36.0	1.0	mg/l	2	07/02/10 11:28	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	EICH2		
Lab Sample ID:	D14773-10F	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	162000	400	ug/l	1	07/06/10	07/07/10	SH	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA805
(2) Prep QC Batch: MP2249

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW24		
Lab Sample ID:	D14773-11	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB2010.D	1	07/07/10	AS	n/a	n/a	GFB47
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.00178	0.00080	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW24		
Lab Sample ID:	D14773-11	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5513.D	1	07/03/10	DG	n/a	n/a	GTB300
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	102%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW24		
Lab Sample ID:	D14773-11	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	4.4	0.50	mg/l	1	07/02/10 14:06	GH	EPA 300/SW846 9056

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW24		
Lab Sample ID:	D14773-11F	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	39500	400	ug/l	1	07/06/10	07/07/10	SH	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA805
(2) Prep QC Batch: MP2249

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DCS6		
Lab Sample ID:	D14773-12	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB2013.D	1	07/07/10	AS	n/a	n/a	GFB47
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.00174	0.00080	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DCS6		
Lab Sample ID:	D14773-12	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5514.D	1	07/03/10	DG	n/a	n/a	GTB300
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	105%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DCS6		
Lab Sample ID:	D14773-12	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	10.7	0.50	mg/l	1	07/02/10 14:40	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DCS6		
Lab Sample ID:	D14773-12F	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	58300	400	ug/l	1	07/06/10	07/07/10	SH	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA805
(2) Prep QC Batch: MP2249

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DCS7		
Lab Sample ID:	D14773-13	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB2014.D	1	07/07/10	AS	n/a	n/a	GFB47
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.00186	0.00080	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DCS7		
Lab Sample ID:	D14773-13	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5515.D	1	07/03/10	DG	n/a	n/a	GTB300
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	104%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	DCS7		
Lab Sample ID:	D14773-13	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	10.7	0.50	mg/l	1	07/02/10 14:51	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DCS7		
Lab Sample ID:	D14773-13F	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	59200	400	ug/l	1	07/06/10	07/07/10	SH	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA805
(2) Prep QC Batch: MP2249

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW18		
Lab Sample ID:	D14773-14	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB2015.D	1	07/07/10	AS	n/a	n/a	GFB47
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.264	0.00080	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW18		
Lab Sample ID:	D14773-14	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5516.D	1	07/03/10	DG	n/a	n/a	GTB300
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	104%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW18		
Lab Sample ID:	D14773-14	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	7.6	0.50	mg/l	1	07/02/10 15:02	GH	EPA 300/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW18		
Lab Sample ID:	D14773-14F	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	58300	400	ug/l	1	07/06/10	07/07/10	SH	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA805
(2) Prep QC Batch: MP2249

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DCS8		
Lab Sample ID:	D14773-15	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FB2016.D	1	07/07/10	AS	n/a	n/a	GFB47
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.0015	0.00080	0.00080	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DCS8		
Lab Sample ID:	D14773-15	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB5517.D	1	07/03/10	DG	n/a	n/a	GTB300
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	99%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DCS8		
Lab Sample ID:	D14773-15	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	10.8	0.50	mg/l	1	07/02/10 15:13	GH	EPA 300/SW846 9056

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	DCS8		
Lab Sample ID:	D14773-15F	**Date Sampled:**	06/29/10
Matrix:	AQ - Water	**Date Received:**	06/30/10
		Percent Solids:	n/a
Project:	Divide Creek Quarterly		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	58600	400	ug/l	1	07/06/10	07/07/10	SH	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA805
(2) Prep QC Batch: MP2249

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

D14773 D14773 PAGE 1 OF 2

4036 Youngfield Street, Wheat Ridge, Colorado 80033
TEL. 303-425-6021; 877-737-4521 FAX: 303-425-6854
www.accutest.com

FED-EX Tracking # | Bottle Order Control #
Accutest Quote # | Accutest Job #

Client / Reporting Information

Company Name: Olsson Associates
Street Address: 326 21 1/2 Rd 81505
City State Zip: Grand Junction CO 81505
Project Contact: Brad Stephenson | E-mail:
Phone #: | Fax #:
Sampler(s) Name(s): Stuart Hall | Phone #:

Project Information

Project Name: Divide Creek Quarterly
Street:
City State:
Project # 008-2067
Client Purchase Order #
Project Manager
Attention:

Billing Information (if different from Report to)

Company Name:
Street Address:
City State Zip:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Preserved: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	BTEX	Diss. Methane	Na	Cl	LAB USE ONLY
	DCS1		6/29/10	910	SH	W	8		1							X	X	X	X	01
	DCS2			920					1							X	X	X	X	02
	~~MW15~~ DCS3			925					1							X	X	X	X	03
	MW15			945					1							X	X	X	X	04
	DCS4			1000					1							X	X	X	X	05
	DCS5			1015					1							X	X	X	X	06
	MW20			1030					1							X	X	X	X	07
	MW21			1100			7		1							X	X	X	X	08
	MW22			1120			8		1							X	X	X	X	09
	FICH2			1150					1							X	X	X	X	10
	MW24			1225					1							X	X	X	X	11

Turnaround Time (Business days)

- Std. 10 Business Days
- UST Analysis 3-5 Days
- 6 - 9 Day *RUSH*
- 3 - 5 Day *RUSH*
- 2 Day *EMERGENCY*
- 1 Day *EMERGENCY*

Approved By (Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- Level 1
- Level 2
- Level 3
- Level 4

Level 1 = Results Only
Level 2 = Results + QC Summary + Case Narrative
Level 3 = Results + QC Summary + Partial Raw data
Level 4 = Full Deliverable

- PDF
- EDD Format
- Other

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		6/29/10 1600	1	2		2 6-30-10 1045
3	Relinquished by Sampler:	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	Intact / Not Intact	Preserved where applicable: MATLS

On Ice | Cooler Temp: 4.0

D14773: Chain of Custody
Page 1 of 2

ACCUTEST Laboratories

CHAIN OF CUSTODY

D14773

~~D14773~~ PAGE 2 OF 2

4036 Youngfield Street, Wheat Ridge, Colorado 80033
TEL. 303-425-6021; 877-737-4521 FAX: 303-425-6854
www.accutest.com

FED-EX Tracking # | Bottle Order Control #
Accutest Quote # | Accutest Job #

Client / Reporting Information

Company Name: Olsson Associates
Street Address:
City State Zip:
Project Contact: E-mail:
Phone #: Fax #:
Sampler(s) Name(s): Ken Kreie Phone #:

Project Information

Project Name: Divide Creek Quarterly - See Page 1
Street:
City State:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City State Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	BTEX	Diss. Methane	N2	Cl	LAB USE ONLY
	DCS6		6/29/10	1130	KK	W	3			1						X	X	X	X	12 13
	DCS7			1150	KK					1						X	X	X	X	13 14
	MW18			1210	KK					1						X	X	X	X	14 15
	DCS8			1230	KK					1						X	X	X	X	15 16

Turnaround Time (Business days)

- Std. 10 Business Days
- UST Analysis 3-5 Days
- 6 - 9 Day *RUSH*
- 3 - 5 Day *RUSH*
- 2 Day *EMERGENCY*
- 1 Day *EMERGENCY*

Approved By (Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- Level 1
- Level 2
- Level 3
- Level 4

PDF
EDD Format
Other

Level 1 = Results Only
Level 2 = Results + QC Summary + Case Narrative
Level 3 = Results + QC Summary + Partial Raw data
Level 4 = Full Deliverable

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	KK	6/29/10 1600	1	2		2 6-30-10
3	Relinquished by Sampler:	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	Intact / Not Intact	Preserved where applicable / On Ice / Cooler Temp

4.0

D14773: Chain of Custody
Page 2 of 2

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: D14773
Account: CORCCOGJ Olsson Associates
Project: Divide Creek Quarterly

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFB46-MB	FB1973.D	1	07/02/10	AS	n/a	n/a	GFB46

The QC reported here applies to the following samples: **Method:** RSK175 MOD

D14773-1, D14773-2, D14773-3, D14773-4, D14773-5, D14773-6, D14773-7, D14773-8, D14773-9, D14773-10

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.00080	0.00080	mg/l	

Method Blank Summary

Job Number: D14773
Account: CORCCOGJ Olsson Associates
Project: Divide Creek Quarterly

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFB47-MB	FB2006.D	1	07/07/10	AS	n/a	n/a	GFB47

The QC reported here applies to the following samples: **Method:** RSK175 MOD

D14773-11, D14773-12, D14773-13, D14773-14, D14773-15

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.00080	0.00080	mg/l	

Method Blank Summary

Job Number: D14773
Account: CORCCOGJ Olsson Associates
Project: Divide Creek Quarterly

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GTB300-MB	TB5498.D	1	07/03/10	DG	n/a	n/a	GTB300

The QC reported here applies to the following samples: **Method:** SW846 8021B

D14773-1, D14773-2, D14773-3, D14773-4, D14773-5, D14773-6, D14773-7, D14773-8, D14773-9, D14773-10, D14773-11, D14773-12, D14773-13, D14773-14, D14773-15

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
120-82-1	1,2,4-Trichlorobenzene	101%	60-140%

Blank Spike Summary

Job Number: D14773
Account: CORCCOGJ Olsson Associates
Project: Divide Creek Quarterly

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GTB300-BS	TB5499.D	1	07/03/10	DG	n/a	n/a	GTB300

The QC reported here applies to the following samples: **Method:** SW846 8021B

D14773-1, D14773-2, D14773-3, D14773-4, D14773-5, D14773-6, D14773-7, D14773-8, D14773-9, D14773-10, D14773-11, D14773-12, D14773-13, D14773-14, D14773-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	27.2	23.6	87	70-130
100-41-4	Ethylbenzene	45.6	41.6	91	70-130
108-88-3	Toluene	212	209	99	70-130
95-47-6	o-Xylene	65.9	62.5	95	70-130
	m,p-Xylene	150	150	100	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	118%	60-140%

Blank Spike/Blank Spike Duplicate Summary

Job Number: D14773
Account: CORCCOGJ Olsson Associates
Project: Divide Creek Quarterly

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFB46-BS	FB1974.D	1	07/02/10	AS	n/a	n/a	GFB46
GFB46-BSD	FB1975.D	1	07/02/10	AS	n/a	n/a	GFB46

The QC reported here applies to the following samples: **Method:** RSK175 MOD

D14773-1, D14773-2, D14773-3, D14773-4, D14773-5, D14773-6, D14773-7, D14773-8, D14773-9, D14773-10

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
74-82-8	Methane	0.5094	0.547	107	0.557	109	2	70-130/30

Blank Spike/Blank Spike Duplicate Summary

Job Number: D14773
Account: CORCCOGJ Olsson Associates
Project: Divide Creek Quarterly

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFB47-BS	FB2007.D	10	07/07/10	AS	n/a	n/a	GFB47
GFB47-BSD	FB2008.D	10	07/07/10	AS	n/a	n/a	GFB47

The QC reported here applies to the following samples: **Method:** RSK175 MOD

D14773-11, D14773-12, D14773-13, D14773-14, D14773-15

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
74-82-8	Methane	0.5094	0.562	110	0.575	113	2	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D14773
Account: CORCCOGJ Olsson Associates
Project: Divide Creek Quarterly

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D14707-1MS	FB1978.D	10	07/02/10	AS	n/a	n/a	GFB46
D14707-1MSD	FB1979.D	10	07/02/10	AS	n/a	n/a	GFB46
D14707-1	FB1977.D	1	07/02/10	AS	n/a	n/a	GFB46

The QC reported here applies to the following samples: **Method:** RSK175 MOD

D14773-1, D14773-2, D14773-3, D14773-4, D14773-5, D14773-6, D14773-7, D14773-8, D14773-9, D14773-10

CAS No.	Compound	D14707-1 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
74-82-8	Methane	0.145		0.5094	0.620	93	0.618	93	0	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D14773
Account: CORCCOGJ Olsson Associates
Project: Divide Creek Quarterly

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D14773-11MS	FB2011.D	10	07/07/10	AS	n/a	n/a	GFB47
D14773-11MSD	FB2012.D	10	07/07/10	AS	n/a	n/a	GFB47
D14773-11	FB2010.D	1	07/07/10	AS	n/a	n/a	GFB47

The QC reported here applies to the following samples: **Method:** RSK175 MOD

D14773-11, D14773-12, D14773-13, D14773-14, D14773-15

CAS No.	Compound	D14773-11 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
74-82-8	Methane	0.00178		0.5094	0.564	110	0.563	110	0	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D14773
Account: CORCCOGJ Olsson Associates
Project: Divide Creek Quarterly

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D14773-1MS	TB5501.D	1	07/03/10	DG	n/a	n/a	GTB300
D14773-1MSD	TB5502.D	1	07/03/10	DG	n/a	n/a	GTB300
D14773-1	TB5500.D	1	07/03/10	DG	n/a	n/a	GTB300

The QC reported here applies to the following samples: **Method:** SW846 8021B

D14773-1, D14773-2, D14773-3, D14773-4, D14773-5, D14773-6, D14773-7, D14773-8, D14773-9, D14773-10, D14773-11, D14773-12, D14773-13, D14773-14, D14773-15

CAS No.	Compound	D14773-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		27.2	25.2	93	26.0	96	3	70-130/30
100-41-4	Ethylbenzene	ND		45.6	43.9	96	45.4	100	3	62-130/30
108-88-3	Toluene	2.6		212	222	104	232	108	4	70-130/30
95-47-6	o-Xylene	ND		65.9	66.6	101	67.6	103	1	63-130/30
	m,p-Xylene	ND		150	160	107	165	110	3	70-134/30

CAS No.	Surrogate Recoveries	MS	MSD	D14773-1	Limits
120-82-1	1,2,4-Trichlorobenzene	119%	115%	97%	60-140%

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D14773
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

QC Batch ID: MP2243
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 07/02/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	100	7	49		
Antimony	30	1.7	13		
Arsenic	25	2.8	6.5		
Barium	10	.14	2.4		
Beryllium	10	1.4	4.4		
Boron	50	3.5	19		
Cadmium	10	.22	1.2		
Calcium	400	17	9.2		
Chromium	10	.27	1.6		
Cobalt	5.0	.48	.3		
Copper	5.0	1.6	2.7		
Iron	70	7.7	10		
Lead	50	1.3	3.2		
Magnesium	200	5.8	12		
Manganese	5.0	.21	.7		
Molybdenum	10	.41	1.2		
Nickel	30	.38	.6		
Phosphorus	100	15	54		
Potassium	1000	380	540		
Selenium	50	2.8	7.2		
Silicon	50	12	20		
Silver	30	.98	.3		
Sodium	400	230	23	51.0	<400
Strontium	5.0	.091	3.4		
Thallium	10	3.1	2.1		
Tin	50	14	4.4		
Titanium	10	.098	.7		
Uranium	50	2.2	3.9		
Vanadium	10	.27	.3		
Zinc	30	.76	1.7		

Associated samples MP2243: D14773-1F, D14773-2F, D14773-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14773
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

QC Batch ID: MP2243
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 07/02/10

Metal	D14834-1F Original MS		Spikelot MPICPALL % Rec		QC Limits
Aluminum					
Antimony					
Arsenic	anr				
Barium					
Beryllium					
Boron					
Cadmium					
Calcium	anr				
Chromium					
Cobalt					
Copper	anr				
Iron	anr				
Lead					
Magnesium	anr				
Manganese	anr				
Molybdenum					
Nickel					
Phosphorus	anr				
Potassium	anr				
Selenium					
Silicon					
Silver					
Sodium	65900	93200	25000	109.2	75-125
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc	anr				

Associated samples MP2243: D14773-1F, D14773-2F, D14773-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14773
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

QC Batch ID: MP2243 Methods: SW846 6010B
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 07/02/10

Metal	D14834-1F Original MSD		Spikelot MPICPALL % Rec		MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	anr					
Barium						
Beryllium						
Boron						
Cadmium						
Calcium	anr					
Chromium						
Cobalt						
Copper	anr					
Iron	anr					
Lead						
Magnesium	anr					
Manganese	anr					
Molybdenum						
Nickel						
Phosphorus	anr					
Potassium	anr					
Selenium						
Silicon						
Silver						
Sodium	65900	94100	25000	112.8	1.0	20
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc	anr					

Associated samples MP2243: D14773-1F, D14773-2F, D14773-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D14773
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

QC Batch ID: MP2243
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 07/02/10

Metal	BSP Result	Spikelot MPICPALL	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Boron				
Cadmium				
Calcium	anr			
Chromium				
Cobalt				
Copper	anr			
Iron	anr			
Lead				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel				
Phosphorus	anr			
Potassium	anr			
Selenium				
Silicon				
Silver				
Sodium	25800	25000	103.2	80-120
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc	anr			

Associated samples MP2243: D14773-1F, D14773-2F, D14773-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D14773
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

QC Batch ID: MP2249
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 07/06/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	100	7	49		
Antimony	30	1.7	13		
Arsenic	25	2.8	6.5		
Barium	10	.14	2.4		
Beryllium	10	1.4	4.4		
Boron	50	3.5	19		
Cadmium	10	.22	1.2		
Calcium	400	17	9.2		
Chromium	10	.27	1.6		
Cobalt	5.0	.48	.3		
Copper	5.0	1.6	2.7		
Iron	70	7.7	10		
Lead	50	1.3	3.2		
Magnesium	200	5.8	12		
Manganese	5.0	.21	.7		
Molybdenum	10	.41	1.2		
Nickel	30	.38	.6		
Phosphorus	100	15	54		
Potassium	1000	380	540		
Selenium	50	2.8	7.2		
Silicon	50	12	20		
Silver	30	.98	.3		
Sodium	400	230	23	158	<400
Strontium	5.0	.091	3.4		
Thallium	10	3.1	2.1		
Tin	50	14	4.4		
Titanium	10	.098	.7		
Uranium	50	2.2	3.9		
Vanadium	10	.27	.3		
Zinc	30	.76	1.7		

Associated samples MP2249: D14773-4F, D14773-5F, D14773-6F, D14773-7F, D14773-8F, D14773-9F, D14773-10F, D14773-11F, D14773-12F, D14773-13F, D14773-14F, D14773-15F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14773
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

QC Batch ID: MP2249 Methods: SW846 6010B
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 07/06/10

Metal	D14676-1 Original MS		Spikelot MPICPALL	% Rec	QC Limits
Aluminum	anr				
Antimony					
Arsenic	anr				
Barium	anr				
Beryllium					
Boron	anr				
Cadmium	anr				
Calcium	anr				
Chromium					
Cobalt					
Copper	anr				
Iron	anr				
Lead	anr				
Magnesium	anr				
Manganese	anr				
Molybdenum					
Nickel	anr				
Phosphorus	anr				
Potassium	anr				
Selenium	anr				
Silicon					
Silver					
Sodium	42400	65900	25000	94.0	75-125
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc	anr				

Associated samples MP2249: D14773-4F, D14773-5F, D14773-6F, D14773-7F, D14773-8F, D14773-9F, D14773-10F, D14773-11F, D14773-12F, D14773-13F, D14773-14F, D14773-15F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14773
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

QC Batch ID: MP2249
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14773
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

QC Batch ID: MP2249 Methods: SW846 6010B
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 07/06/10

Metal	D14676-1 Original MSD		Spikelot MPICPALL % Rec		MSD RPD	QC Limit
Aluminum	anr					
Antimony						
Arsenic	anr					
Barium	anr					
Beryllium						
Boron	anr					
Cadmium	anr					
Calcium	anr					
Chromium						
Cobalt						
Copper	anr					
Iron	anr					
Lead	anr					
Magnesium	anr					
Manganese	anr					
Molybdenum						
Nickel	anr					
Phosphorus	anr					
Potassium	anr					
Selenium	anr					
Silicon						
Silver						
Sodium	42400	66100	25000	94.8	0.3	20
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc	anr					

Associated samples MP2249: D14773-4F, D14773-5F, D14773-6F, D14773-7F, D14773-8F, D14773-9F, D14773-10F, D14773-11F, D14773-12F, D14773-13F, D14773-14F, D14773-15F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D14773
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

QC Batch ID: MP2249
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D14773
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

QC Batch ID: MP2249 Methods: SW846 6010B
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 07/06/10

Metal	BSP Result	Spikelot MPICPALL	% Rec	QC Limits
Aluminum	anr			
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Boron	anr			
Cadmium	anr			
Calcium	anr			
Chromium				
Cobalt				
Copper	anr			
Iron	anr			
Lead	anr			
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Phosphorus	anr			
Potassium	anr			
Selenium	anr			
Silicon				
Silver				
Sodium	24000	25000	96.0	80-120
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc	anr			

Associated samples MP2249: D14773-4F, D14773-5F, D14773-6F, D14773-7F, D14773-8F, D14773-9F, D14773-10F, D14773-11F, D14773-12F, D14773-13F, D14773-14F, D14773-15F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D14773
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP2283/GN5187	0.50	0.0	mg/l	20	21.4	107.0	90-110%
Sulfate	GP2283/GN5187	0.50	0.0	mg/l	30	30.0	100.0	90-110%

Associated Samples:
Batch GP2283: D14773-1, D14773-10, D14773-11, D14773-12, D14773-13, D14773-14, D14773-15, D14773-2, D14773-3, D14773-4, D14773-5, D14773-6, D14773-7, D14773-8, D14773-9
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D14773
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP2283/GN5187	D14773-4	mg/l	3.8	10	13.3	95.0	80-120%
Sulfate	GP2283/GN5187	D14773-4	mg/l	16.5	10	27.6	111.0	80-120%

Associated Samples:
Batch GP2283: D14773-1, D14773-10, D14773-11, D14773-12, D14773-13, D14773-14, D14773-15, D14773-2, D14773-3, D14773-4, D14773-5, D14773-6, D14773-7, D14773-8, D14773-9
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D14773
Account: CORCCOGJ - Olsson Associates
Project: Divide Creek Quarterly

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chloride	GP2283/GN5187	D14773-4	mg/l	3.8	10	13.2	0.8	20%
Sulfate	GP2283/GN5187	D14773-4	mg/l	16.5	10	27.5	0.4	20%

Associated Samples:
Batch GP2283: D14773-1, D14773-10, D14773-11, D14773-12, D14773-13, D14773-14, D14773-15, D14773-2, D14773-3, D14773-4, D14773-5, D14773-6, D14773-7, D14773-8, D14773-9
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Mountain States ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

07/24/10

Technical Report for

Olsson Associates

Divide Creek Quarterly

008-2067

Accutest Job Number: D15458

Sampling Date: 07/21/10

Report to:

Olsson Associates
826 21 1/2 Road
Grand Junction, CO 81505
bradstephenson@oaconsulting.com

ATTN: Brad Stephenson

Total number of pages in report: **22**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Jesse L. Smith
Laboratory Director

Client Service contact: Amanda Kissell 303-425-6021

Certifications: CO, ID, NE, NM, ND (R-027) (PW) UT (NELAP CO00049)

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Sections: 1 2 3 4 5

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Sample Summary

Olsson Associates

Job No: D15458

Divide Creek Quarterly
Project No: 008-2067

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
D15458-1	07/21/10	10:25	JS	07/21/10	AQ	Ground Water	MW2
D15458-2	07/21/10	10:41	JS	07/21/10	AQ	Ground Water	MW1
D15458-3	07/21/10	10:57	JS	07/21/10	AQ	Ground Water	MW17
D15458-4	07/21/10	11:11	JS	07/21/10	AQ	Ground Water	MW16
D15458-5	07/21/10	11:11	JS	07/21/10	AQ	Ground Water	MW16D
D15458-6	07/21/10	11:31	JS	07/21/10	AQ	Ground Water	MW7
D15458-7	07/21/10	11:50	JS	07/21/10	AQ	Ground Water	MW4
D15458-8	07/21/10	12:03	JS	07/21/10	AQ	Field Blank Water	FB
D15458-9	07/21/10	10:45	JS	07/21/10	AQ	Ground Water	MW27
D15458-10	07/21/10	11:20	JS	07/21/10	AQ	Ground Water	MW25
D15458-11	07/21/10	11:35	JS	07/21/10	AQ	Ground Water	MW11

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Olsson Associates	**Job No**	D15458
Site:	Divide Creek Quarterly	**Report Dat**	7/24/2010 12:04:20 PM

On 07/21/2010, 10 sample(s), 0 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 5 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D15458 was assigned to the project. The lab sample IDs, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GC By Method SW846 8021B

Matrix AQ **Batch ID:** GTB329

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Samples D15458-1MS and D15458-1MSD were used as the QC samples indicated.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW2		
Lab Sample ID:	D15458-1	**Date Sampled:**	07/21/10
Matrix:	AQ - Ground Water	**Date Received:**	07/21/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB6072.D	1	07/22/10	CK	n/a	n/a	GTB329
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	144	1.0	1.0	ug/l	
108-88-3	Toluene	2.2	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	29.0	2.0	2.0	ug/l	
95-47-6	o-Xylene	4.3	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	103%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW1		
Lab Sample ID:	D15458-2	**Date Sampled:**	07/21/10
Matrix:	AQ - Ground Water	**Date Received:**	07/21/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB6073.D	1	07/22/10	CK	n/a	n/a	GTB329
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	85%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW17		
Lab Sample ID:	D15458-3	**Date Sampled:**	07/21/10
Matrix:	AQ - Ground Water	**Date Received:**	07/21/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB6074.D	1	07/22/10	CK	n/a	n/a	GTB329
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	13.0	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	100%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16		
Lab Sample ID:	D15458-4	**Date Sampled:**	07/21/10
Matrix:	AQ - Ground Water	**Date Received:**	07/21/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB6075.D	1	07/22/10	CK	n/a	n/a	GTB329
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	98%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16D		
Lab Sample ID:	D15458-5	**Date Sampled:**	07/21/10
Matrix:	AQ - Ground Water	**Date Received:**	07/21/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB6076.D	1	07/22/10	CK	n/a	n/a	GTB329
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	92%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7		
Lab Sample ID:	D15458-6	**Date Sampled:**	07/21/10
Matrix:	AQ - Ground Water	**Date Received:**	07/21/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB6077.D	1	07/22/10	CK	n/a	n/a	GTB329
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	90%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	D15458-7	**Date Sampled:**	07/21/10
Matrix:	AQ - Ground Water	**Date Received:**	07/21/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB6079.D	1	07/22/10	CK	n/a	n/a	GTB329
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	41.2	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	13.6	2.0	2.0	ug/l	
95-47-6	o-Xylene	2.2	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	91%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB		
Lab Sample ID:	D15458-8	**Date Sampled:**	07/21/10
Matrix:	AQ - Field Blank Water	**Date Received:**	07/21/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB6080.D	1	07/23/10	CK	n/a	n/a	GTB329
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	96%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW27		
Lab Sample ID:	D15458-9	**Date Sampled:**	07/21/10
Matrix:	AQ - Ground Water	**Date Received:**	07/21/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB6081.D	1	07/23/10	CK	n/a	n/a	GTB329
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	88%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW25		
Lab Sample ID:	D15458-10	**Date Sampled:**	07/21/10
Matrix:	AQ - Ground Water	**Date Received:**	07/21/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB6082.D	1	07/23/10	CK	n/a	n/a	GTB329
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	87%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW11		
Lab Sample ID:	D15458-11	**Date Sampled:**	07/21/10
Matrix:	AQ - Ground Water	**Date Received:**	07/21/10
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Divide Creek Quarterly		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB6083.D	1	07/23/10	CK	n/a	n/a	GTB329
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	90%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST Laboratories

4036 Youngfield Street, Wheat Ridge, Colorado 80033
TEL. 303-425-6021; 877-737-4521 FAX: 303-425-6854
www.accutest.com

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FED-EX Tracking # | Bottle Order Control #
Accutest Quote # | Accutest Job #

Client / Reporting Information

Company Name: Olsson Associates
Street Address: 826 21 1/2 Rd
City: Grand Jct. State: CO Zip: 81505
Project Contact: Brad Stephenson E-mail: bstephenson@olssonassociates.com
Phone #: 303-237-2072 Fax #:
Sampler(s) Name(s): Jessica Sarma Phone #: 970-263-7805

Project Information

Project Name: Divide Creek
Street:
City: State:
Project #: 008-2067
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

BTEX 8021
TRIP Blank

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	BTEX 8021	TRIP Blank	LAB USE ONLY
	MW2		7/21/10	1025	JS	GW	3									X		01
	MW1		7/21/10	1041	JS	GW	3									X		02
	MW17		7/21/10	1057	JS	GW	3									X		03
	MW16		7/21/10	1111	JS	GW	3									X		04
	MW16D		7/21/10	1111	JS	GW	3									X		05
	MW7		7/21/10	1131	JS	GW	3									X		06
	MW4		7/21/10	1150	JS	GW	3									X		07
	FB		7/21/10	1203	JS	GW	3									X		08
	MW27		7/21/10	1045	SH	GW	3									X		09
	MW25		7/21/10	1120	SH	GW	3									X		10
	MW11		7/21/10	1135	SH	GW	3									X		11
	TRIP BLANK						2										X	12

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [ ] UST Analysis 3-5 Days
- [ ] 6 - 9 Day *RUSH*
- [ ] 3 - 5 Day *RUSH*
- [X] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Approved By (Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Level 1
- [ ] Level 2
- [ ] Level 3
- [ ] Level 4
- [ ] PDF
- [ ] EDD Format
- [ ] Other

Level 1 = Results Only
Level 2 = Results + QC Summary + Case Narrative
Level 3 = Results + QC Summary + Partial Raw data
Level 4 = Full Deliverable

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		7/21/10 2200	1	2		2 Jacob Porter 8:30 7/22/10
3	Relinquished by Sampler:	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	[X] Intact [ ] Not intact	Preserved where applicable [X] On Ice [X] Cooler Temp. 5.0

D15458: Chain of Custody
Page 1 of 1

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: D15458
Account: CORCCOGJ Olsson Associates
Project: Divide Creek Quarterly

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GTB329-MB	TB6068.D	1	07/22/10	CK	n/a	n/a	GTB329

The QC reported here applies to the following samples: **Method:** SW846 8021B

D15458-1, D15458-2, D15458-3, D15458-4, D15458-5, D15458-6, D15458-7, D15458-8, D15458-9, D15458-10, D15458-11

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	1.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	2.0	ug/l	
108-88-3	Toluene	ND	2.0	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	2.0	ug/l	
	m,p-Xylene	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
120-82-1	1,2,4-Trichlorobenzene	105%	60-140%

Blank Spike Summary

Job Number: D15458
Account: CORCCOGJ Olsson Associates
Project: Divide Creek Quarterly

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GTB329-BS	TB6069.D	1	07/22/10	CK	n/a	n/a	GTB329

The QC reported here applies to the following samples: **Method:** SW846 8021B

D15458-1, D15458-2, D15458-3, D15458-4, D15458-5, D15458-6, D15458-7, D15458-8, D15458-9, D15458-10, D15458-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	27.2	27.1	100	70-130
100-41-4	Ethylbenzene	45.6	44.4	97	70-130
108-88-3	Toluene	212	235	111	70-130
95-47-6	o-Xylene	65.9	65.7	100	70-130
	m,p-Xylene	150	164	109	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	110%	60-140%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D15458
Account: CORCCOGJ Olsson Associates
Project: Divide Creek Quarterly

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D15458-1MS	TB6070.D	1	07/22/10	CK	n/a	n/a	GTB329
D15458-1MSD	TB6071.D	1	07/22/10	CK	n/a	n/a	GTB329
D15458-1	TB6072.D	1	07/22/10	CK	n/a	n/a	GTB329

The QC reported here applies to the following samples: **Method:** SW846 8021B

D15458-1, D15458-2, D15458-3, D15458-4, D15458-5, D15458-6, D15458-7, D15458-8, D15458-9, D15458-10, D15458-11

CAS No.	Compound	D15458-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	144		27.2	170	96	174	110	2	70-130/30
100-41-4	Ethylbenzene	ND		45.6	45.8	100	46.4	102	1	62-130/30
108-88-3	Toluene	2.2		212	231	108	237	111	3	70-130/30
95-47-6	o-Xylene	4.3		65.9	70.1	100	71.1	101	1	63-130/30
	m,p-Xylene	29.0		150	199	113	202	115	1	70-134/30

CAS No.	Surrogate Recoveries	MS	MSD	D15458-1	Limits
120-82-1	1,2,4-Trichlorobenzene	106%	113%	103%	60-140%

ISOTECH
ISOTECH LABORATORIES INC

ANALYSIS REPORT

Lab #: 190407 Job #: 13293
Sample Name: MW-14 Co. Lab#:
Company: Olsson Associates
Date Sampled: 6/28/2010
Container: Dissolved Gas Bottle
Field/Site Name: Divide Creek Quarterly
Location:
Formation/Depth:
Sampling Point:
Date Received: 7/01/2010 Date Reported: 8/11/2010

Component	Chemical mol. %	$\delta^{13}C$ ‰	δD ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd			
Hydrogen Sulfide	nd			
Helium	nd			
Hydrogen	nd			
Argon	0.940			
Oxygen	0.090			
Nitrogen	46.26			
Carbon Dioxide	5.33			
Methane	40.91	-40.21	-197.3	
Ethane	4.29	-28.25		
Ethylene	nd			
Propane	1.56	-25.68		
Iso-butane	0.219			
N-butane	0.266			
Iso-pentane	0.0613			
N-pentane	0.0311			
Hexanes +	0.0398			

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 552
Specific gravity, calculated: 0.851

Remarks: Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.69
*Addition of helium negates the ability to detect native helium or hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of carbon is relative to VPDB. Isotopic composition of hydrogen is relative to VSMOW. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

ISOTECH
ISOTECH LABORATORIES INC

ANALYSIS REPORT

Lab #: 190408 Job #: 13293
Sample Name: MW-9 Co. Lab#:
Company: Olsson Associates
Date Sampled: 6/28/2010
Container: Dissolved Gas Bottle
Field/Site Name: Divide Creek Quarterly
Location:
Formation/Depth:
Sampling Point:
Date Received: 7/01/2010 Date Reported: 8/11/2010

Component	Chemical mol. %	$\delta^{13}C$ ‰	δD ‰	$\delta^{15}N$ ‰
Carbon Monoxide	0.078			
Hydrogen Sulfide	nd			
Helium	nd			
Hydrogen	nd			
Argon	0.716			
Oxygen	4.86			
Nitrogen	32.11			
Carbon Dioxide	6.19			
Methane	48.50	-41.77	-203.0	
Ethane	4.79	-28.34		
Ethylene	nd			
Propane	1.88	-26.08		
Iso-butane	0.337			
N-butane	0.347			
Iso-pentane	0.0961			
N-pentane	0.0442			
Hexanes +	0.0518			

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 655
Specific gravity, calculated: 0.835

Remarks: Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.68
*Addition of helium negates the ability to detect native helium or hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of carbon is relative to VPDB. Isotopic composition of hydrogen is relative to VSMOW. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

ISOTECH
ISOTECH LABORATORIES INC

ANALYSIS REPORT

Lab #: 190409 Job #: 13293
Sample Name: MW-17 Co. Lab#:
Company: Olsson Associates
Date Sampled: 6/28/2010
Container: Dissolved Gas Bottle
Field/Site Name: Divide Creek Quarterly
Location:
Formation/Depth:
Sampling Point:
Date Received: 7/01/2010 Date Reported: 8/11/2010

Component	Chemical mol. %	$\delta^{13}C$ ‰	δD ‰	$\delta^{15}N$ ‰
Carbon Monoxide	0.070			
Hydrogen Sulfide	nd			
Helium	nd			
Hydrogen	nd			
Argon	1.67			
Oxygen	11.46			
Nitrogen	80.44			
Carbon Dioxide	6.34			
Methane	0.0159			
Ethane	nd			
Ethylene	nd			
Propane	nd			
Iso-butane	nd			
N-butane	nd			
Iso-pentane	nd			
N-pentane	nd			
Hexanes +	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 0
Specific gravity, calculated: 1.025

Remarks: Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.76
*Addition of helium negates the ability to detect native helium or hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of carbon is relative to VPDB. Isotopic composition of hydrogen is relative to VSMOW. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

ISOTECH
ISOTECH LABORATORIES INC

ANALYSIS REPORT

Lab #: 190410 Job #: 13293
Sample Name: MW-4 Co. Lab#:
Company: Olsson Associates
Date Sampled: 6/28/2010
Container: Dissolved Gas Bottle
Field/Site Name: Divide Creek Quarterly
Location:
Formation/Depth:
Sampling Point:
Date Received: 7/01/2010 Date Reported: 8/11/2010

Component	Chemical mol. %	$\delta^{13}C$ ‰	δD ‰	$\delta^{15}N$ ‰
Carbon Monoxide	0.11			
Hydrogen Sulfide	nd			
Helium	nd			
Hydrogen	nd			
Argon	0.217			
Oxygen	0.57			
Nitrogen	9.99			
Carbon Dioxide	78.40			
Methane	9.01	-40.11	-192.1	
Ethane	1.19	-27.64		
Ethylene	nd			
Propane	0.369	-25.00		
Iso-butane	0.0529			
N-butane	0.0500			
Iso-pentane	0.0142			
N-pentane	0.0071			
Hexanes +	0.0113			

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 127
Specific gravity, calculated: 1.369

Remarks: Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.55
*Addition of helium negates the ability to detect native helium or hydrogen.
**propane isotopes obtained online via GC-C-IRMS

nd = not detected. na = not analyzed. Isotopic composition of carbon is relative to VPDB. Isotopic composition of hydrogen is relative to VSMOW. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

ISOTECH
ISOTECH LABORATORIES INC

ANALYSIS REPORT

Lab #: 190411 Job #: 13293
Sample Name: MW-2 Co. Lab#:
Company: Olsson Associates
Date Sampled: 6/28/2010
Container: Dissolved Gas Bottle
Field/Site Name: Divide Creek Quarterly
Location:
Formation/Depth:
Sampling Point:
Date Received: 7/01/2010 Date Reported: 8/11/2010

Component	Chemical mol. %	$\delta^{13}C$ ‰	δD ‰	$\delta^{15}N$ ‰
Carbon Monoxide	0.10			
Hydrogen Sulfide	nd			
Helium	nd			
Hydrogen	nd			
Argon	0.532			
Oxygen	8.36			
Nitrogen	24.69			
Carbon Dioxide	3.70			
Methane	52.87	-39.89	-178.2	
Ethane	6.95	-27.62		
Ethylene	nd			
Propane	2.06	-25.33		
Iso-butane	0.289			
N-butane	0.283			
Iso-pentane	0.0753			
N-pentane	0.0372			
Hexanes +	0.0506			

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 737
Specific gravity, calculated: 0.808

Remarks: Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.68
*Addition of helium negates the ability to detect native helium or hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of carbon is relative to VPDB. Isotopic composition of hydrogen is relative to VSMOW. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.