

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax: (303)894-2109



DE ET OE ES
RECEIVED
10/4/2012

SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

Complete the Attachment Checklist

OP OGCC

1. OGCC Operator Number: 100185
2. Name of Operator: Encana Oil & Gas (USA) Inc.
3. Address: 370 17th Street Suite 1700
City: Denver State: CO Zip 80202

4. Contact Name
Heather Mitchell
Phone: 720.876.3070
Fax: 720.876.4070

5. API Number OGCC Facility ID Number 425839
6. Well/Facility Name: EF D19 595 7. Well/Facility Number
8. Location (QtrQtr, Sec, Twp, Rng, Meridian): NENW Sec 19 T5S-R95W, 6th PM
9. County: Garfield 10. Field Name: Grand Valley
11. Federal, Indian or State Lease Number:

Survey Plat		
Directional Survey		
Surface Eqpm Diagram		
Technical Info Page	X	
Other		

General Notice

☐ CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)

Change of Surface Footage from Exterior Section Lines:

FNL/FSL

FEL/FWL

Change of Surface Footage to Exterior Section Lines:

Change of Bottomhole Footage from Exterior Section Lines:

Change of Bottomhole Footage to Exterior Section Lines:

attach directional survey

Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer

Latitude

Distance to nearest property line

Distance to nearest bldg, public rd, utility or RR

Longitude

Distance to nearest lease line

Is location in a High Density Area (rule 603b)?

Yes/No NO

Ground Elevation

Distance to nearest well same formation

Surface owner consultation date:

NA

GPS DATA:

Date of Measurement PDOP Reading Instrument Operator's Name

☐ CHANGE SPACING UNIT

Formation

Formation Code

Spacing order number

Unit Acreage

Unit configuration

☐ Remove from surface bond

Signed surface use agreement attached

☐ CHANGE OF OPERATOR (prior to drilling):

Effective Date:

Plugging Bond:

☐ Blanket

☐ Individual

☐ CHANGE WELL NAME

NUMBER

From:

To:

Effective Date:

☐ ABANDONED LOCATION:

Was location ever built?

☐ Yes

☐ No

Is site ready for inspection?

☐ Yes

☐ No

Date Ready for Inspection:

☐ NOTICE OF CONTINUED SHUT IN STATUS

Date well shut in or temporarily abandoned:

Has Production Equipment been removed from site?

☐ Yes

☐ No

MIT required if shut in longer than two years. Date of last MIT

☐ SPUD DATE:

☐ REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)

☐ SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK

*submit cbl and cement job summaries

Method used

Cementing tool setting/perf depth

Cement volume

Cement top

Cement bottom

Date

☐ RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.

Final reclamation will commence on approximately

☐ Final reclamation is completed and site is ready for inspection.

Technical Engineering/Environmental Notice

☐ Notice of Intent

Approximate Start Date:

☐ Report of Work Done

Date Work Completed:

Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)

☐ Intent to Recomplete (submit form 2)

☐ Request to Vent or Flare

☐ E&P Waste Disposal

☐ Change Drilling Plans

☐ Repair Well

☐ Beneficial Reuse of E&P Waste

☐ Gross Interval Changed?

☐ Rule 502 variance requested

☐ Status Update/Change of Remediation Plans

☐ Casing/Cementing Program Change

☒ Other: Water Transfer Agreement COAs

for Spills and Releases

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed:

Heather Mitchell

Date: 10/4/12

Email: heather.mitchell@encana.com

Print Name:

Heather R. Mitchell

Title:

Regulatory Analyst

COGCC Approved:

Title

Date:

CONDITIONS OF APPROVAL, IF ANY:

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number:	100185	API Number:	
2. Name of Operator:	Encana Oil & Gas (USA) Inc. OGCC Facility ID # 425839		
3. Well/Facility Name:	EF D19 595	Well/Facility Number:	
4. Location (QtrQtr, Sec, Twp, Rng, Meridian):	NENW Sec 19 T5S-R95W, 6th PM		

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. DESCRIBE PROPOSED OR COMPLETED OPERATIONS

The attached documents are submitted pursuant to the COAs for the water transfer of produced/flowback water between Encana and Berry.

- 1) Please find the water sample

ALS Group USA, Corp

Date: 07-Sep-12

Client: Encana Oil and Gas (USA) Inc.
Project: D19 Pond 8/28/12
Sample ID: D19POND-082812
Collection Date: 8/28/2012 01:30 PM

Work Order: 1208859
Lab ID: 1208859-01
Matrix: WASTEWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS (DISSOLVED)			Method: SW6020A			Analyst: RH	
Aluminum	0.0049	J	0.0017	0.010	mg/L	1	9/6/2012 15:03
Antimony	0.0017	J	0.000039	0.0050	mg/L	1	9/6/2012 15:03
Arsenic	0.028		0.00072	0.0050	mg/L	1	9/5/2012 21:06
Barium	30		0.027	0.50	mg/L	100	9/5/2012 19:13
Beryllium	U		0.000048	0.0020	mg/L	1	9/5/2012 21:06
Boron	6.0		0.12	2.0	mg/L	100	9/5/2012 19:13
Cadmium	0.000087	J	0.000034	0.0020	mg/L	1	9/5/2012 14:42
Calcium	140		0.0073	0.50	mg/L	1	9/5/2012 14:42
Chromium	0.0034	J	0.000042	0.0050	mg/L	1	9/5/2012 14:42
Cobalt	0.00032	J	0.000039	0.0050	mg/L	1	9/6/2012 15:03
Copper	0.0047	J	0.00012	0.0050	mg/L	1	9/5/2012 21:06
Hardness (Calculation)	400		0.028	2.0	mg/L	1	9/5/2012 14:42
Iron	1.8		0.0028	0.080	mg/L	1	9/5/2012 14:42
Lead	0.000084	J	0.000027	0.0030	mg/L	1	9/6/2012 15:03
Lithium	3.5		0.021	1.0	mg/L	100	9/6/2012 14:46
Magnesium	11		0.0024	0.20	mg/L	1	9/5/2012 14:42
Manganese	0.17		0.00011	0.0050	mg/L	1	9/5/2012 14:42
Molybdenum	0.0049	J	0.00015	0.0050	mg/L	1	9/5/2012 14:42
Nickel	0.013		0.00017	0.0050	mg/L	1	9/5/2012 14:42
Potassium	48		0.0072	0.20	mg/L	1	9/5/2012 14:42
Selenium	0.010		0.00041	0.0050	mg/L	1	9/5/2012 21:06
Silver	0.000046	J	0.000025	0.0050	mg/L	1	9/6/2012 15:03
Sodium	3,700		0.69	20	mg/L	100	9/5/2012 19:13
Strontium	25		0.0065	0.50	mg/L	100	9/6/2012 14:46
Thallium	U		0.000029	0.0050	mg/L	1	9/5/2012 21:06
Titanium	0.014		0.00012	0.0050	mg/L	1	9/5/2012 21:06
Vanadium	0.0013	J	0.00030	0.0050	mg/L	1	9/6/2012 15:03
Zinc	0.015		0.00059	0.010	mg/L	1	9/5/2012 14:42
SUBCONTRACTED ANALYSES			Method: SUBCONTRACT			Analyst: ALS	
Subcontracted Analyses	Rcvd 9/7/12		0	as noted		1	9/7/2012
SEMI-VOLATILE ORGANIC COMPOUNDS			Method: SW8270			Prep: SW3510 / 8/30/12	
1,2,4-Trichlorobenzene	U		1.4	50	µg/L	10	9/4/2012 21:06
1,2-Dichlorobenzene	U		1.3	50	µg/L	10	9/4/2012 21:06
1,3-Dichlorobenzene	U		1.3	50	µg/L	10	9/4/2012 21:06
1,4-Dichlorobenzene	U		1.3	50	µg/L	10	9/4/2012 21:06
2,4,5-Trichlorophenol	U		12	500	µg/L	100	9/5/2012 16:19
2,4,6-Trichlorophenol	U		11	500	µg/L	100	9/5/2012 16:19

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 07-Sep-12

Client: Encana Oil and Gas (USA) Inc.
Project: D19 Pond 8/28/12
Sample ID: D19POND-082812
Collection Date: 8/28/2012 01:30 PM

Work Order: 1208859
Lab ID: 1208859-01
Matrix: WASTEWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2,4-Dichlorophenol	U		2.2	100	µg/L	10	9/4/2012 21:06
2,4-Dimethylphenol	76		2.4	50	µg/L	10	9/4/2012 21:06
2,4-Dinitrophenol	U		76	500	µg/L	100	9/5/2012 16:19
2,4-Dinitrotoluene	U		78	500	µg/L	100	9/5/2012 16:19
2,6-Dinitrotoluene	U		82	500	µg/L	100	9/5/2012 16:19
2-Chloronaphthalene	U		13	500	µg/L	100	9/5/2012 16:19
2-Chlorophenol	U		7.3	50	µg/L	10	9/4/2012 21:06
2-Methylnaphthalene	200		1.3	50	µg/L	10	9/4/2012 21:06
2-Methylphenol	170		6.0	50	µg/L	10	9/4/2012 21:06
2-Nitroaniline	U		11	2,000	µg/L	100	9/5/2012 16:19
2-Nitrophenol	U		1.9	50	µg/L	10	9/4/2012 21:06
3,3'-Dichlorobenzidine	U		5.4	50	µg/L	10	9/4/2012 21:06
3-Nitroaniline	U		250	2,000	µg/L	100	9/5/2012 16:19
4,6-Dinitro-2-methylphenol	U		3.4	200	µg/L	10	9/4/2012 21:06
4-Bromophenyl phenyl ether	U		1.1	50	µg/L	10	9/4/2012 21:06
4-Chloro-3-methylphenol	U		6.5	50	µg/L	10	9/4/2012 21:06
4-Chloroaniline	U		11	200	µg/L	10	9/4/2012 21:06
4-Chlorophenyl phenyl ether	U		11	500	µg/L	100	9/5/2012 16:19
4-Methylphenol	63		5.5	50	µg/L	10	9/4/2012 21:06
4-Nitroaniline	U		150	2,000	µg/L	100	9/5/2012 16:19
4-Nitrophenol	U		160	2,000	µg/L	100	9/5/2012 16:19
Acenaphthene	U		11	500	µg/L	100	9/5/2012 16:19
Acenaphthylene	U		12	500	µg/L	100	9/5/2012 16:19
Anthracene	U		7.2	50	µg/L	10	9/4/2012 21:06
Benzo(a)anthracene	U		5.7	50	µg/L	10	9/4/2012 21:06
Benzo(a)pyrene	U		1.0	50	µg/L	10	9/4/2012 21:06
Benzo(b)fluoranthene	U		7.4	50	µg/L	10	9/4/2012 21:06
Benzo(g,h,i)perylene	U		7.0	50	µg/L	10	9/4/2012 21:06
Benzo(k)fluoranthene	U		1.7	50	µg/L	10	9/4/2012 21:06
Benzoic acid	450	J	55	500	µg/L	10	9/4/2012 21:06
Benzyl alcohol	U		1.0	200	µg/L	10	9/4/2012 21:06
Bis(2-chloroethoxy)methane	U		1.3	50	µg/L	10	9/4/2012 21:06
Bis(2-chloroethyl)ether	U		1.1	50	µg/L	10	9/4/2012 21:06
Bis(2-chloroisopropyl)ether	U		1.2	50	µg/L	10	9/4/2012 21:06
Bis(2-ethylhexyl)phthalate	16	J	1.2	50	µg/L	10	9/4/2012 21:06
Butyl benzyl phthalate	U		1.1	50	µg/L	10	9/4/2012 21:06
Carbazole	U		8.4	100	µg/L	10	9/4/2012 21:06
Chrysene	U		7.1	50	µg/L	10	9/4/2012 21:06
Dibenzo(a,h)anthracene	U		6.7	50	µg/L	10	9/4/2012 21:06
Dibenzofuran	U		11	500	µg/L	100	9/5/2012 16:19

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 07-Sep-12

Client: Encana Oil and Gas (USA) Inc.
Project: D19 Pond 8/28/12
Sample ID: D19POND-082812
Collection Date: 8/28/2012 01:30 PM

Work Order: 1208859
Lab ID: 1208859-01
Matrix: WASTEWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Diethyl phthalate	U		69	2,000	µg/L	100	9/5/2012 16:19
Dimethyl phthalate	U		14	2,000	µg/L	100	9/5/2012 16:19
Di-n-butyl phthalate	U		7.1	50	µg/L	10	9/4/2012 21:06
Di-n-octyl phthalate	10	J	1.2	50	µg/L	10	9/4/2012 21:06
Fluoranthene	U		7.7	50	µg/L	10	9/4/2012 21:06
Fluorene	U		10	500	µg/L	100	9/5/2012 16:19
Hexachlorobenzene	U		1.0	50	µg/L	10	9/4/2012 21:06
Hexachlorobutadiene	U		1.2	50	µg/L	10	9/4/2012 21:06
Hexachlorocyclopentadiene	U		18	2,000	µg/L	100	9/5/2012 16:19
Hexachloroethane	U		1.3	50	µg/L	10	9/4/2012 21:06
Indeno(1,2,3-cd)pyrene	U		6.9	50	µg/L	10	9/4/2012 21:06
Isophorone	U		1.2	50	µg/L	10	9/4/2012 21:06
Naphthalene	71		1.2	50	µg/L	10	9/4/2012 21:06
Nitrobenzene	U		1.0	50	µg/L	10	9/4/2012 21:06
N-Nitrosodi-n-propylamine	U		1.3	50	µg/L	10	9/4/2012 21:06
N-Nitrosodiphenylamine	U		8.1	50	µg/L	10	9/4/2012 21:06
Pentachlorophenol	U		1.1	200	µg/L	10	9/4/2012 21:06
Phenanthrene	32	J	8.6	50	µg/L	10	9/4/2012 21:06
Phenol	98		0.94	50	µg/L	10	9/4/2012 21:06
Pyrene	U		6.5	50	µg/L	10	9/4/2012 21:06
Pyridine	110	J	6.5	200	µg/L	10	9/4/2012 21:06
Surr: 2,4,6-Tribromophenol	102			32-115	%REC	10	9/4/2012 21:06
Surr: 2-Fluorobiphenyl	178	S		32-100	%REC	10	9/4/2012 21:06
Surr: 2-Fluorophenol	31.6			22-59	%REC	10	9/4/2012 21:06
Surr: 4-Terphenyl-d14	106			23-112	%REC	10	9/4/2012 21:06
Surr: Nitrobenzene-d5	94.4	S		31-93	%REC	10	9/4/2012 21:06
Surr: Phenol-d6	22.2			13-36	%REC	10	9/4/2012 21:06
VOLATILE ORGANIC COMPOUNDS			Method: SW8260				Analyst: RS
1,1,1,2-Tetrachloroethane	U		0.0070	0.10	mg/L	100	8/31/2012 15:39
1,1,1-Trichloroethane	U		0.014	0.10	mg/L	100	8/31/2012 15:39
1,1,2,2-Tetrachloroethane	U		0.013	0.10	mg/L	100	8/31/2012 15:39
1,1,2-Trichloroethane	U		0.0084	0.10	mg/L	100	8/31/2012 15:39
1,1,2-Trichlorotrifluoroethane	U		0.018	0.10	mg/L	100	8/31/2012 15:39
1,1-Dichloroethane	U		0.011	0.10	mg/L	100	8/31/2012 15:39
1,1-Dichloroethene	U		0.012	0.10	mg/L	100	8/31/2012 15:39
1,1-Dichloropropene	U		0.016	0.10	mg/L	100	8/31/2012 15:39
1,2,3-Trichlorobenzene	U		0.020	0.30	mg/L	100	8/31/2012 15:39
1,2,3-Trichloropropane	U		0.019	0.10	mg/L	100	8/31/2012 15:39
1,2,4-Trichlorobenzene	U		0.016	0.10	mg/L	100	8/31/2012 15:39

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 07-Sep-12

Client: Encana Oil and Gas (USA) Inc.
Project: D19 Pond 8/28/12
Sample ID: D19POND-082812
Collection Date: 8/28/2012 01:30 PM

Work Order: 1208859
Lab ID: 1208859-01
Matrix: WASTEWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,4-Trimethylbenzene	1.4		0.0094	0.10	mg/L	100	8/31/2012 15:39
1,2-Dibromo-3-chloropropane	U		0.031	0.10	mg/L	100	8/31/2012 15:39
1,2-Dibromoethane	U		0.016	0.10	mg/L	100	8/31/2012 15:39
1,2-Dichlorobenzene	U		0.013	0.10	mg/L	100	8/31/2012 15:39
1,2-Dichloroethane	U		0.015	0.10	mg/L	100	8/31/2012 15:39
1,2-Dichloropropane	U		0.013	0.20	mg/L	100	8/31/2012 15:39
1,3,5-Trichlorobenzene	U		0.015	0.10	mg/L	100	8/31/2012 15:39
1,3,5-Trimethylbenzene	0.97		0.010	0.10	mg/L	100	8/31/2012 15:39
1,3-Dichlorobenzene	0.083		0.016	0.060	mg/L	100	8/31/2012 15:39
1,3-Dichloropropane	U		0.014	0.10	mg/L	100	8/31/2012 15:39
1,4-Dichlorobenzene	0.17		0.015	0.10	mg/L	100	8/31/2012 15:39
2,2-Dichloropropane	U		0.016	0.10	mg/L	100	8/31/2012 15:39
2-Butanone	0.059		0.022	0.040	mg/L	100	8/31/2012 15:39
2-Chloroethyl vinyl ether	U		0.048	1.0	mg/L	100	8/31/2012 15:39
2-Chlorotoluene	U		0.013	0.20	mg/L	100	8/31/2012 15:39
2-Hexanone	U		0.012	0.50	mg/L	100	8/31/2012 15:39
2-Methylnaphthalene	0.48		0.030	0.10	mg/L	100	8/31/2012 15:39
4-Chlorotoluene	U		0.013	0.10	mg/L	100	8/31/2012 15:39
4-Isopropyltoluene	U		0.010	0.10	mg/L	100	8/31/2012 15:39
4-Methyl-2-pentanone	U		0.0096	0.50	mg/L	100	8/31/2012 15:39
Acetone	1.2		0.033	1.0	mg/L	100	8/31/2012 15:39
Acetonitrile	U		0.038	0.10	mg/L	100	8/31/2012 15:39
Acrolein	U		0.063	0.50	mg/L	100	8/31/2012 15:39
Acrylonitrile	U		0.018	0.10	mg/L	100	8/31/2012 15:39
Benzene	4.2		0.018	0.10	mg/L	100	8/31/2012 15:39
Benzyl chloride	U		0.010	0.10	mg/L	100	8/31/2012 15:39
Bromobenzene	U		0.012	0.10	mg/L	100	8/31/2012 15:39
Bromochloromethane	U		0.011	0.10	mg/L	100	8/31/2012 15:39
Bromodichloromethane	U		0.012	0.10	mg/L	100	8/31/2012 15:39
Bromoform	U		0.015	0.10	mg/L	100	8/31/2012 15:39
Bromomethane	U		0.021	0.10	mg/L	100	8/31/2012 15:39
Butyl acetate	U		0.021	0.10	mg/L	100	8/31/2012 15:39
Carbon disulfide	U		0.017	0.25	mg/L	100	8/31/2012 15:39
Carbon tetrachloride	U		0.012	0.10	mg/L	100	8/31/2012 15:39
Chlorobenzene	U		0.013	0.10	mg/L	100	8/31/2012 15:39
Chloroethane	U		0.046	0.10	mg/L	100	8/31/2012 15:39
Chloroform	U		0.015	0.10	mg/L	100	8/31/2012 15:39
Chloromethane	U		0.016	0.10	mg/L	100	8/31/2012 15:39
cis-1,2-Dichloroethene	U		0.011	0.10	mg/L	100	8/31/2012 15:39
cis-1,3-Dichloropropene	U		0.0081	0.10	mg/L	100	8/31/2012 15:39

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

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Client: Encana Oil and Gas (USA) Inc.
Project: D19 Pond 8/28/12
Sample ID: D19POND-082812
Collection Date: 8/28/2012 01:30 PM

Work Order: 1208859
Lab ID: 1208859-01
Matrix: WASTEWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Cyclohexane	0.74		0.022	0.50	mg/L	100	8/31/2012 15:39
Cyclohexanone	U		0.042	0.50	mg/L	100	8/31/2012 15:39
Dibromochloromethane	U		0.013	0.10	mg/L	100	8/31/2012 15:39
Dibromomethane	U		0.017	0.10	mg/L	100	8/31/2012 15:39
Dichlorodifluoromethane	U		0.020	0.10	mg/L	100	8/31/2012 15:39
Dichloromethane	U		0.019	0.50	mg/L	100	8/31/2012 15:39
Diethyl ether	U		0.022	1.0	mg/L	100	8/31/2012 15:39
Diisopropyl ether	U		0.012	0.50	mg/L	100	8/31/2012 15:39
Ethyl acetate	U		0.087	0.50	mg/L	100	8/31/2012 15:39
Ethyl tert butyl ether	U		0.0097	0.50	mg/L	100	8/31/2012 15:39
Ethylbenzene	0.49		0.013	0.10	mg/L	100	8/31/2012 15:39
Hexachlorobutadiene	U		0.014	0.50	mg/L	100	8/31/2012 15:39
Hexachloroethane	U		0.018	0.10	mg/L	100	8/31/2012 15:39
Hexane	0.66		0.016	0.50	mg/L	100	8/31/2012 15:39
Iodomethane	U		0.0073	0.50	mg/L	100	8/31/2012 15:39
Isopropylbenzene	U		0.014	0.10	mg/L	100	8/31/2012 15:39
m,p-Xylene	4.9		0.020	0.10	mg/L	100	8/31/2012 15:39
Methyl acetate	U		0.019	0.20	mg/L	100	8/31/2012 15:39
Methyl iodide	U		0.0073	0.50	mg/L	100	8/31/2012 15:39
Methyl tert-butyl ether	U		0.0070	0.50	mg/L	100	8/31/2012 15:39
Methylcyclohexane	2.6		0.099	0.50	mg/L	100	8/31/2012 15:39
Methylene chloride	U		0.019	0.50	mg/L	100	8/31/2012 15:39
Naphthalene	0.21		0.014	0.10	mg/L	100	8/31/2012 15:39
n-Butylbenzene	U		0.016	0.10	mg/L	100	8/31/2012 15:39
n-Propylbenzene	0.26		0.013	0.10	mg/L	100	8/31/2012 15:39
o-Xylene	0.95		0.0086	0.10	mg/L	100	8/31/2012 15:39
Pentachloroethane	U		0.010	0.10	mg/L	100	8/31/2012 15:39
p-Isopropyltoluene	U		0.010	0.20	mg/L	100	8/31/2012 15:39
Styrene	U		0.011	0.10	mg/L	100	8/31/2012 15:39
tert-Butylbenzene	U		0.021	0.20	mg/L	100	8/31/2012 15:39
Tetrachloroethene	U		0.015	0.20	mg/L	100	8/31/2012 15:39
Tetrahydrofuran	U		0.036	1.0	mg/L	100	8/31/2012 15:39
Toluene	7.9		0.012	0.10	mg/L	100	8/31/2012 15:39
trans-1,2-Dichloroethene	U		0.012	0.10	mg/L	100	8/31/2012 15:39
trans-1,3-Dichloropropene	U		0.015	0.10	mg/L	100	8/31/2012 15:39
trans-1,4-Dichloro-2-butene	U		0.029	0.50	mg/L	100	8/31/2012 15:39
Trichloroethene	U		0.014	0.10	mg/L	100	8/31/2012 15:39
Trichlorofluoromethane	U		0.018	0.10	mg/L	100	8/31/2012 15:39
Vinyl acetate	U		0.011	0.10	mg/L	100	8/31/2012 15:39
Vinyl chloride	U		0.017	0.10	mg/L	100	8/31/2012 15:39

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 07-Sep-12

Client: Encana Oil and Gas (USA) Inc.
Project: D19 Pond 8/28/12
Sample ID: D19POND-082812
Collection Date: 8/28/2012 01:30 PM

Work Order: 1208859
Lab ID: 1208859-01
Matrix: WASTEWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Xylenes, Total	5.9		0.029	0.30	mg/L	100	8/31/2012 15:39
Surr: 1,2-Dichloroethane-d4	105			70-120	%REC	100	8/31/2012 15:39
Surr: 4-Bromofluorobenzene	97.4			75-120	%REC	100	8/31/2012 15:39
Surr: Dibromofluoromethane	99.6			85-115	%REC	100	8/31/2012 15:39
Surr: Toluene-d8	93.4			85-120	%REC	100	8/31/2012 15:39
ALKALINITY (AS CaCO3)			Method: A2320 B				Analyst: JB
Alkalinity, Bicarbonate (as CaCO3)	1,800		3.6	10	mg/L	1	9/5/2012 13:30
Alkalinity, Carbonate (as CaCO3)	11		3.6	10	mg/L	1	9/5/2012 13:30
Alkalinity, Hydroxide (as CaCO3)	U		3.6	10	mg/L	1	9/5/2012 13:30
Alkalinity, Total (as CaCO3)	1,800		3.6	12	mg/L	1	9/5/2012 13:30
OXYGEN, DISSOLVED			Method: E360.1				Analyst: EE
Oxygen, Dissolved	0.48		0		mg/L	1	8/29/2012 15:45
ANIONS BY ION CHROMATOGRAPHY			Method: SW9056				Analyst: ED
Bromide	41		1.4	2.5	mg/L	25	9/4/2012 12:55
Chloride	6,300		30	500	mg/L	500	9/4/2012 16:58
Fluoride	2.5		0.80	2.5	mg/L	25	9/4/2012 12:55
Sulfate	5.4	J	2.9	25	mg/L	25	9/4/2012 12:55
NITROGEN, NITRITE			Method: A4500-NO2 B				Analyst: JB
Nitrogen, Nitrite	0.0027	J	0.0010	0.020	mg/L	1	8/29/2012 16:00
NITROGEN, NITRATE			Method: E353.2 R2.0				Analyst: JJG
Nitrogen, Nitrate	U		0.0090	0.020	mg/L	1	8/30/2012 15:20
PH			Method: SW9040				Analyst: JB
pH	7.51		0		s.u.	1	8/29/2012 09:00
SPECIFIC CONDUCTANCE			Method: A2510				Analyst: KV
Specific Conductance	20,000		0.52	5.0	µmhos/cm	1	8/31/2012 13:50
TOTAL DISSOLVED SOLIDS			Method: A2540 C				Analyst: KV
Total Dissolved Solids	12,000		9.0	10	mg/L	1	9/2/2012 14:00

Note: See Qualifiers page for a list of qualifiers and their definitions.