

Analytes (BDL = Below Detection Limit; ND = Non Detect)

Location	Sample Date:	Sample Matrix	Matrix Notes	Allowable Concentration -->	Organic Compounds in Soil (mg/kg [ppm])																			Inorganics in Soil			Metals in Soil (mg/kg [ppm])													
					TPH (total volatile and extractable petroleum hydrocarbons)	TPH-GRO (C6-C10) Low Fraction	TPH-DRO (C10-C36) High Fraction	Benzene	Toluene	Ethylbenzene	Xylenes - total	Acenaphthene	Anthracene	Benzo(A)anthracene	Benzo(B)fluoranthene	Benzo(K)fluoranthene	Benzo(A)pyrene	Chrysene	Dibenz(A,H)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-C,D)pyrene	Naphthalene	Pyrene	EC (-4 mmhos/cm or 2x background)	SAR (calculation)	pH	Arsenic	Barium - EPA Total Barium	Cadmium	Chromium (III)	Chromium (VI)	Copper	Lead (inorganic)	Mercury	Nickel (soluble salts)	Selenium	Silver	Zinc	
PD21	05/18/10	Pit	pit bottom - NW corner - 2' profile grab	500	323.8	3.8	320	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.17	BDL	3.4	0.13	9.2	6.4	670	0.42	20	BDL	17	9.6	BDL	19	BDL	0.55	53		
PD21	05/18/10	Pit	pit bottom - middle - 4' profile grab	500	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.4	0.04	9.4	7.7	180	0.68	22	BDL	14	8.9	BDL	18	BDL	BDL	65		
PD21	05/18/10	Pit	pit bottom - SW corner - 2' profile grab	500	140	BDL	140	BDL	BDL	0.0056	0.064	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.058	BDL	2.1	0.1	9.4	9	490	0.3	14	BDL	15	9.2	0.023	14	BDL	BDL	42
PD21	05/18/10	Pit	pit bottom - SW corner - 4' profile grab	500	110	BDL	110	BDL	BDL	BDL	0.029	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.1	0.09	9.1	9.8	220	0.43	20	BDL	19	9	0.033	17	BDL	BDL	59
PD21	05/18/10	Pit	pit bottom - middle - 2' profile grab	500	BDL	BDL	BDL	BDL	BDL	0.012	0.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.2	0.13	9.2	10	350	0.42	21	BDL	17	11	BDL	19	BDL	BDL	58
PD21	05/18/10	Pit	pit bottom - NW corner - 4' profile grab	500	200.58	0.58	200	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.054	3.1	0.12	8.9	11	580	0.51	19	BDL	19	12	0.026	18	BDL	BDL	55
PD21	06/02/10	Pit	pit bottom 5 pt. dice composite	500	320	BDL	320	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.0042	46	8.6	11	860	0.75	19	BDL	18	16	0.028	13	4.3	BDL	45	



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Tax I.D. 62-0814289

Est. 1970

Mr. Brett Middleton  
Encana  
2717 Co. Rd. 215  
Parachute, CO 81635

## Report Summary

Friday May 28, 2010

Report Number: L459987

Samples Received: 05/20/10

Client Project: 10138562

Description: PD21 Pit Closer

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Leslie Newton , ESC Representative

### Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140  
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Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

May 28, 2010

Mr. Brett Middleton  
 Encana  
 2717 Co. Rd. 215  
 Parachute, CO 81635

Date Received : May 20, 2010  
 Description : PD21 Pit Closer  
 Sample ID : PD21-1-2  
 Collected By : Brad Kieding  
 Collection Date : 05/18/10 13:00

ESC Sample # : L459987-01  
 Site ID : PD21  
 Project # : 10138562

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	05/23/10	1
Chromium,Trivalent	14.	0.50	mg/kg	Calc.	05/24/10	1
ORP	51.		mV	2580	05/21/10	1
pH	9.4		su	9045D	05/21/10	1
Sodium Adsorption Ratio	0.10			Calc.	05/23/10	1
Specific Conductance	2100		umhos/cm	9050AMod	05/21/10	1
Mercury	0.023	0.020	mg/kg	7471	05/21/10	1
Arsenic	9.0	1.0	mg/kg	6010B	05/24/10	1
Barium	490	0.25	mg/kg	6010B	05/24/10	1
Cadmium	0.30	0.25	mg/kg	6010B	05/24/10	1
Chromium	14.	0.50	mg/kg	6010B	05/24/10	1
Copper	15.	1.0	mg/kg	6010B	05/24/10	1
Lead	9.2	0.25	mg/kg	6010B	05/24/10	1
Nickel	14.	1.0	mg/kg	6010B	05/24/10	1
Selenium	BDL	1.0	mg/kg	6010B	05/24/10	1
Silver	BDL	0.50	mg/kg	6010B	05/24/10	1
Zinc	42.	1.5	mg/kg	6010B	05/24/10	1
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	05/22/10	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	95.1		% Rec.	602/8015	05/22/10	5
<b>Volatile Organics</b>						
Acetone	0.56	0.25	mg/kg	8260B	05/24/10	5
Acrylonitrile	BDL	0.050	mg/kg	8260B	05/24/10	5
Benzene	BDL	0.0050	mg/kg	8260B	05/24/10	5
Bromobenzene	BDL	0.0050	mg/kg	8260B	05/24/10	5
Bromodichloromethane	BDL	0.0050	mg/kg	8260B	05/24/10	5
Bromoform	BDL	0.0050	mg/kg	8260B	05/24/10	5
Bromomethane	BDL	0.025	mg/kg	8260B	05/24/10	5
n-Butylbenzene	BDL	0.0050	mg/kg	8260B	05/24/10	5
sec-Butylbenzene	BDL	0.0050	mg/kg	8260B	05/24/10	5
tert-Butylbenzene	BDL	0.0050	mg/kg	8260B	05/24/10	5
Carbon tetrachloride	BDL	0.0050	mg/kg	8260B	05/24/10	5
Chlorobenzene	BDL	0.0050	mg/kg	8260B	05/24/10	5
Chlorodibromomethane	BDL	0.0050	mg/kg	8260B	05/24/10	5
Chloroethane	BDL	0.025	mg/kg	8260B	05/24/10	5

BDL - Below Detection Limit  
 Det. Limit - Practical Quantitation Limit(PQL)  
 L459987-01 (PH) - 9.4@21.0c



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ESC Sample # : L459987-01

Date Received : May 20, 2010
Description : PD21 Pit Closer

Site ID : PD21

Sample ID : PD21-1-2

Project # : 10138562

Collected By : Brad Kieding
Collection Date : 05/18/10 13:00

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Lists various chemical compounds and their detection results.

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)
L459987-01 (PH) - 9.4@21.0c



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Date Received : May 20, 2010
Description : PD21 Pit Closer
Sample ID : PD21-1-2
Collected By : Brad Kieding
Collection Date : 05/18/10 13:00

ESC Sample # : L459987-01
Site ID : PD21
Project # : 10138562

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Rows include Trichloroethene, Toluene-d8, TPH (GC/FID) High Fraction, and various Base/Neutral Extractables.

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L459987-01 (PH) - 9.4@21.0c



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 Description : PD21 Pit Closer  
 Sample ID : PD21-1-2  
 Collected By : Brad Kieding  
 Collection Date : 05/18/10 13:00

ESC Sample # : L459987-01  
 Site ID : PD21  
 Project # : 10138562

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	BDL	0.033	mg/kg	8270C	05/22/10	1
Isophorone	BDL	0.33	mg/kg	8270C	05/22/10	1
Naphthalene	BDL	0.033	mg/kg	8270C	05/22/10	1
Nitrobenzene	BDL	0.33	mg/kg	8270C	05/22/10	1
n-Nitrosodimethylamine	BDL	0.33	mg/kg	8270C	05/22/10	1
n-Nitrosodiphenylamine	BDL	0.33	mg/kg	8270C	05/22/10	1
n-Nitrosodi-n-propylamine	BDL	0.33	mg/kg	8270C	05/22/10	1
Phenanthrene	BDL	0.033	mg/kg	8270C	05/22/10	1
Benzylbutyl phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Bis(2-ethylhexyl)phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Di-n-butyl phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Diethyl phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Dimethyl phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Di-n-octyl phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Pyrene	BDL	0.033	mg/kg	8270C	05/22/10	1
1,2,4-Trichlorobenzene	BDL	0.33	mg/kg	8270C	05/22/10	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2-Chlorophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2,4-Dichlorophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2,4-Dimethylphenol	BDL	0.33	mg/kg	8270C	05/22/10	1
4,6-Dinitro-2-methylphenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2,4-Dinitrophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2-Nitrophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
4-Nitrophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
Pentachlorophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
Phenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2,4,6-Trichlorophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
Surrogate Recovery						
2-Fluorophenol	85.4		% Rec.	8270C	05/22/10	1
Phenol-d5	95.5		% Rec.	8270C	05/22/10	1
Nitrobenzene-d5	85.9		% Rec.	8270C	05/22/10	1
2-Fluorobiphenyl	81.0		% Rec.	8270C	05/22/10	1
2,4,6-Tribromophenol	89.1		% Rec.	8270C	05/22/10	1
p-Terphenyl-d14	75.5		% Rec.	8270C	05/22/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 05/25/10 17:23 Revised: 05/28/10 15:48  
 L459987-01 (PH) - 9.4@21.0c



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REPORT OF ANALYSIS

May 28, 2010

Mr. Brett Middleton  
 Encana  
 2717 Co. Rd. 215  
 Parachute, CO 81635

Date Received : May 20, 2010  
 Description : PD21 Pit Closer  
 Sample ID : PD21-1-4  
 Collected By : Brad Kieding  
 Collection Date : 05/18/10 13:10

ESC Sample # : L459987-02  
 Site ID : PD21  
 Project # : 10138562

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	05/23/10	1
Chromium,Trivalent	20.	0.50	mg/kg	Calc.	05/25/10	1
ORP	41.		mV	2580	05/21/10	1
pH	9.1		su	9045D	05/21/10	1
Sodium Adsorption Ratio	0.090			Calc.	05/23/10	1
Specific Conductance	2100		umhos/cm	9050AMod	05/21/10	1
Mercury	0.033	0.020	mg/kg	7471	05/21/10	1
Arsenic	9.8	1.0	mg/kg	6010B	05/25/10	1
Barium	220	0.25	mg/kg	6010B	05/25/10	1
Cadmium	0.43	0.25	mg/kg	6010B	05/25/10	1
Chromium	20.	0.50	mg/kg	6010B	05/25/10	1
Copper	19.	1.0	mg/kg	6010B	05/25/10	1
Lead	9.0	0.25	mg/kg	6010B	05/25/10	1
Nickel	17.	5.0	mg/kg	6010B	05/25/10	5
Selenium	BDL	1.0	mg/kg	6010B	05/25/10	1
Silver	BDL	0.50	mg/kg	6010B	05/25/10	1
Zinc	59.	7.5	mg/kg	6010B	05/25/10	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	05/22/10	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	95.1		% Rec.	602/8015	05/22/10	5
<b>Volatile Organics</b>						
Acetone	0.65	0.25	mg/kg	8260B	05/24/10	5
Acrylonitrile	BDL	0.050	mg/kg	8260B	05/24/10	5
Benzene	BDL	0.0050	mg/kg	8260B	05/24/10	5
Bromobenzene	BDL	0.0050	mg/kg	8260B	05/24/10	5
Bromodichloromethane	BDL	0.0050	mg/kg	8260B	05/24/10	5
Bromoform	BDL	0.0050	mg/kg	8260B	05/24/10	5
Bromomethane	BDL	0.025	mg/kg	8260B	05/24/10	5
n-Butylbenzene	BDL	0.0050	mg/kg	8260B	05/24/10	5
sec-Butylbenzene	BDL	0.0050	mg/kg	8260B	05/24/10	5
tert-Butylbenzene	BDL	0.0050	mg/kg	8260B	05/24/10	5
Carbon tetrachloride	BDL	0.0050	mg/kg	8260B	05/24/10	5
Chlorobenzene	BDL	0.0050	mg/kg	8260B	05/24/10	5
Chlorodibromomethane	BDL	0.0050	mg/kg	8260B	05/24/10	5
Chloroethane	BDL	0.025	mg/kg	8260B	05/24/10	5

BDL - Below Detection Limit  
 Det. Limit - Practical Quantitation Limit(PQL)  
 L459987-02 (PH) - 9.1@21.0c



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ESC Sample # : L459987-02

Date Received : May 20, 2010
Description : PD21 Pit Closer

Site ID : PD21

Sample ID : PD21-1-4

Project # : 10138562

Collected By : Brad Kieding
Collection Date : 05/18/10 13:10

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Lists various chemical compounds and their detection results.

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)
L459987-02 (PH) - 9.1@21.0c



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Date Received : May 20, 2010  
Description : PD21 Pit Closer  
Sample ID : PD21-1-4  
Collected By : Brad Kieding  
Collection Date : 05/18/10 13:10

ESC Sample # : L459987-02  
Site ID : PD21  
Project # : 10138562

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Trichloroethene	BDL	0.0050	mg/kg	8260B	05/24/10	5
Trichlorofluoromethane	BDL	0.025	mg/kg	8260B	05/24/10	5
1,2,3-Trichloropropane	BDL	0.0050	mg/kg	8260B	05/24/10	5
1,2,4-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	05/24/10	5
1,2,3-Trimethylbenzene	0.0053	0.0050	mg/kg	8260B	05/24/10	5
1,3,5-Trimethylbenzene	0.028	0.0050	mg/kg	8260B	05/24/10	5
Vinyl chloride	BDL	0.0050	mg/kg	8260B	05/24/10	5
Xylenes, Total	0.029	0.015	mg/kg	8260B	05/24/10	5
Surrogate Recovery						
Toluene-d8	94.3		% Rec.	8260B	05/24/10	5
Dibromofluoromethane	95.9		% Rec.	8260B	05/24/10	5
4-Bromofluorobenzene	106.		% Rec.	8260B	05/24/10	5
TPH (GC/FID) High Fraction	110	4.0	mg/kg	3546/DRO	05/22/10	1
Surrogate recovery(%)						
o-Terphenyl	65.9		% Rec.	3546/DRO	05/22/10	1
Base/Neutral Extractables						
Acenaphthene	BDL	0.033	mg/kg	8270C	05/22/10	1
Acenaphthylene	BDL	0.033	mg/kg	8270C	05/22/10	1
Anthracene	BDL	0.033	mg/kg	8270C	05/22/10	1
Benzidine	BDL	0.33	mg/kg	8270C	05/22/10	1
Benzo(a)anthracene	BDL	0.033	mg/kg	8270C	05/22/10	1
Benzo(b)fluoranthene	BDL	0.033	mg/kg	8270C	05/22/10	1
Benzo(k)fluoranthene	BDL	0.033	mg/kg	8270C	05/22/10	1
Benzo(g,h,i)perylene	BDL	0.033	mg/kg	8270C	05/22/10	1
Benzo(a)pyrene	BDL	0.033	mg/kg	8270C	05/22/10	1
Bis(2-chlorethoxy)methane	BDL	0.33	mg/kg	8270C	05/22/10	1
Bis(2-chloroethyl)ether	BDL	0.33	mg/kg	8270C	05/22/10	1
Bis(2-chloroisopropyl)ether	BDL	0.33	mg/kg	8270C	05/22/10	1
4-Bromophenyl-phenylether	BDL	0.33	mg/kg	8270C	05/22/10	1
2-Chloronaphthalene	BDL	0.033	mg/kg	8270C	05/22/10	1
4-Chlorophenyl-phenylether	BDL	0.33	mg/kg	8270C	05/22/10	1
Chrysene	BDL	0.033	mg/kg	8270C	05/22/10	1
Dibenz(a,h)anthracene	BDL	0.033	mg/kg	8270C	05/22/10	1
3,3-Dichlorobenzidine	BDL	0.33	mg/kg	8270C	05/22/10	1
2,4-Dinitrotoluene	BDL	0.33	mg/kg	8270C	05/22/10	1
2,6-Dinitrotoluene	BDL	0.33	mg/kg	8270C	05/22/10	1
Fluoranthene	BDL	0.033	mg/kg	8270C	05/22/10	1
Fluorene	BDL	0.033	mg/kg	8270C	05/22/10	1
Hexachlorobenzene	BDL	0.33	mg/kg	8270C	05/22/10	1
Hexachloro-1,3-butadiene	BDL	0.33	mg/kg	8270C	05/22/10	1
Hexachlorocyclopentadiene	BDL	0.33	mg/kg	8270C	05/22/10	1
Hexachloroethane	BDL	0.33	mg/kg	8270C	05/22/10	1

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L459987-02 (PH) - 9.1@21.0c



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Mr. Brett Middleton  
 Encana  
 2717 Co. Rd. 215  
 Parachute, CO 81635

May 28, 2010

Date Received : May 20, 2010  
 Description : PD21 Pit Closer  
 Sample ID : PD21-1-4  
 Collected By : Brad Kieding  
 Collection Date : 05/18/10 13:10

ESC Sample # : L459987-02  
 Site ID : PD21  
 Project # : 10138562

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	BDL	0.033	mg/kg	8270C	05/22/10	1
Isophorone	BDL	0.33	mg/kg	8270C	05/22/10	1
Naphthalene	BDL	0.033	mg/kg	8270C	05/22/10	1
Nitrobenzene	BDL	0.33	mg/kg	8270C	05/22/10	1
n-Nitrosodimethylamine	BDL	0.33	mg/kg	8270C	05/22/10	1
n-Nitrosodiphenylamine	BDL	0.33	mg/kg	8270C	05/22/10	1
n-Nitrosodi-n-propylamine	BDL	0.33	mg/kg	8270C	05/22/10	1
Phenanthrene	BDL	0.033	mg/kg	8270C	05/22/10	1
Benzylbutyl phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Bis(2-ethylhexyl)phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Di-n-butyl phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Diethyl phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Dimethyl phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Di-n-octyl phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Pyrene	BDL	0.033	mg/kg	8270C	05/22/10	1
1,2,4-Trichlorobenzene	BDL	0.33	mg/kg	8270C	05/22/10	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2-Chlorophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2,4-Dichlorophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2,4-Dimethylphenol	BDL	0.33	mg/kg	8270C	05/22/10	1
4,6-Dinitro-2-methylphenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2,4-Dinitrophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2-Nitrophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
4-Nitrophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
Pentachlorophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
Phenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2,4,6-Trichlorophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
Surrogate Recovery						
2-Fluorophenol	82.1		% Rec.	8270C	05/22/10	1
Phenol-d5	93.0		% Rec.	8270C	05/22/10	1
Nitrobenzene-d5	75.1		% Rec.	8270C	05/22/10	1
2-Fluorobiphenyl	74.2		% Rec.	8270C	05/22/10	1
2,4,6-Tribromophenol	83.8		% Rec.	8270C	05/22/10	1
p-Terphenyl-d14	74.2		% Rec.	8270C	05/22/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 05/25/10 17:23 Revised: 05/28/10 15:48  
 L459987-02 (PH) - 9.1@21.0c



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Est. 1970

REPORT OF ANALYSIS

May 28, 2010

Mr. Brett Middleton  
 Encana  
 2717 Co. Rd. 215  
 Parachute, CO 81635

Date Received : May 20, 2010  
 Description : PD21 Pit Closer  
 Sample ID : PD21-2-2  
 Collected By : Brad Kieding  
 Collection Date : 05/18/10 13:20

ESC Sample # : L459987-03  
 Site ID : PD21  
 Project # : 10138562

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	05/23/10	1
Chromium,Trivalent	20.	0.50	mg/kg	Calc.	05/25/10	1
ORP	52.		mV	2580	05/21/10	1
pH	9.2		su	9045D	05/21/10	1
Sodium Adsorption Ratio	0.13			Calc.	05/23/10	1
Specific Conductance	3400		umhos/cm	9050AMod	05/21/10	1
Mercury	BDL	0.020	mg/kg	7471	05/21/10	1
Arsenic	6.4	1.0	mg/kg	6010B	05/25/10	1
Barium	670	0.25	mg/kg	6010B	05/25/10	1
Cadmium	0.42	0.25	mg/kg	6010B	05/25/10	1
Chromium	20.	0.50	mg/kg	6010B	05/25/10	1
Copper	17.	1.0	mg/kg	6010B	05/25/10	1
Lead	9.6	0.25	mg/kg	6010B	05/25/10	1
Nickel	19.	1.0	mg/kg	6010B	05/25/10	1
Selenium	BDL	1.0	mg/kg	6010B	05/25/10	1
Silver	0.55	0.50	mg/kg	6010B	05/25/10	1
Zinc	53.	1.5	mg/kg	6010B	05/25/10	1
TPH (GC/FID) Low Fraction	3.8	0.50	mg/kg	8015D/GRO	05/22/10	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	89.4		% Rec.	602/8015	05/22/10	5
<b>Volatile Organics</b>						
Acetone	7.3	2.5	mg/kg	8260B	05/24/10	50
Acrylonitrile	BDL	0.50	mg/kg	8260B	05/24/10	50
Benzene	BDL	0.050	mg/kg	8260B	05/24/10	50
Bromobenzene	BDL	0.050	mg/kg	8260B	05/24/10	50
Bromodichloromethane	BDL	0.050	mg/kg	8260B	05/24/10	50
Bromoform	BDL	0.050	mg/kg	8260B	05/24/10	50
Bromomethane	BDL	0.25	mg/kg	8260B	05/24/10	50
n-Butylbenzene	BDL	0.050	mg/kg	8260B	05/24/10	50
sec-Butylbenzene	BDL	0.050	mg/kg	8260B	05/24/10	50
tert-Butylbenzene	BDL	0.050	mg/kg	8260B	05/24/10	50
Carbon tetrachloride	BDL	0.050	mg/kg	8260B	05/24/10	50
Chlorobenzene	BDL	0.050	mg/kg	8260B	05/24/10	50
Chlorodibromomethane	BDL	0.050	mg/kg	8260B	05/24/10	50
Chloroethane	BDL	0.25	mg/kg	8260B	05/24/10	50

BDL - Below Detection Limit  
 Det. Limit - Practical Quantitation Limit(PQL)  
 L459987-03 (PH) - 9.2@21.1c



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REPORT OF ANALYSIS

May 28, 2010

Mr. Brett Middleton
Encana
2717 Co. Rd. 215
Parachute, CO 81635

ESC Sample # : L459987-03

Date Received : May 20, 2010
Description : PD21 Pit Closer

Site ID : PD21

Sample ID : PD21-2-2

Project # : 10138562

Collected By : Brad Kieding
Collection Date : 05/18/10 13:20

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Lists various chemical parameters and their detection results.

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)
L459987-03 (PH) - 9.2@21.1c



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REPORT OF ANALYSIS

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Parachute, CO 81635

Date Received : May 20, 2010
Description : PD21 Pit Closer
Sample ID : PD21-2-2
Collected By : Brad Kieding
Collection Date : 05/18/10 13:20

ESC Sample # : L459987-03
Site ID : PD21
Project # : 10138562

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Rows include Trichloroethene, Toluene-d8, TPH (GC/FID) High Fraction, and various Base/Neutral Extractables.

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L459987-03 (PH) - 9.2@21.1c



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Date Received : May 20, 2010  
 Description : PD21 Pit Closer  
 Sample ID : PD21-2-2  
 Collected By : Brad Kieding  
 Collection Date : 05/18/10 13:20

ESC Sample # : L459987-03  
 Site ID : PD21  
 Project # : 10138562

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	BDL	0.033	mg/kg	8270C	05/22/10	1
Isophorone	BDL	0.33	mg/kg	8270C	05/22/10	1
Naphthalene	0.17	0.033	mg/kg	8270C	05/22/10	1
Nitrobenzene	BDL	0.33	mg/kg	8270C	05/22/10	1
n-Nitrosodimethylamine	BDL	0.33	mg/kg	8270C	05/22/10	1
n-Nitrosodiphenylamine	BDL	0.33	mg/kg	8270C	05/22/10	1
n-Nitrosodi-n-propylamine	BDL	0.33	mg/kg	8270C	05/22/10	1
Phenanthrene	0.23	0.033	mg/kg	8270C	05/22/10	1
Benzylbutyl phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Bis(2-ethylhexyl)phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Di-n-butyl phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Diethyl phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Dimethyl phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Di-n-octyl phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Pyrene	BDL	0.033	mg/kg	8270C	05/22/10	1
1,2,4-Trichlorobenzene	BDL	0.33	mg/kg	8270C	05/22/10	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2-Chlorophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2,4-Dichlorophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2,4-Dimethylphenol	BDL	0.33	mg/kg	8270C	05/22/10	1
4,6-Dinitro-2-methylphenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2,4-Dinitrophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2-Nitrophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
4-Nitrophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
Pentachlorophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
Phenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2,4,6-Trichlorophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
Surrogate Recovery						
2-Fluorophenol	75.2		% Rec.	8270C	05/22/10	1
Phenol-d5	83.3		% Rec.	8270C	05/22/10	1
Nitrobenzene-d5	61.3		% Rec.	8270C	05/22/10	1
2-Fluorobiphenyl	46.2		% Rec.	8270C	05/22/10	1
2,4,6-Tribromophenol	63.5		% Rec.	8270C	05/22/10	1
p-Terphenyl-d14	102.		% Rec.	8270C	05/22/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 05/25/10 17:23 Revised: 05/28/10 15:48  
 L459987-03 (PH) - 9.2@21.1c



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REPORT OF ANALYSIS

May 28, 2010

Mr. Brett Middleton  
 Encana  
 2717 Co. Rd. 215  
 Parachute, CO 81635

Date Received : May 20, 2010  
 Description : PD21 Pit Closer  
 Sample ID : PD21-2-4  
 Collected By : Brad Kieding  
 Collection Date : 05/18/10 13:30

ESC Sample # : L459987-04  
 Site ID : PD21  
 Project # : 10138562

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	05/23/10	1
Chromium,Trivalent	19.	0.50	mg/kg	Calc.	05/25/10	1
ORP	47.		mV	2580	05/21/10	1
pH	8.9		su	9045D	05/21/10	1
Sodium Adsorption Ratio	0.12			Calc.	05/23/10	1
Specific Conductance	3100		umhos/cm	9050AMod	05/21/10	1
Mercury	0.026	0.020	mg/kg	7471	05/21/10	1
Arsenic	11.	1.0	mg/kg	6010B	05/25/10	1
Barium	580	0.25	mg/kg	6010B	05/25/10	1
Cadmium	0.51	0.25	mg/kg	6010B	05/25/10	1
Chromium	19.	0.50	mg/kg	6010B	05/25/10	1
Copper	19.	1.0	mg/kg	6010B	05/25/10	1
Lead	12.	0.25	mg/kg	6010B	05/25/10	1
Nickel	18.	5.0	mg/kg	6010B	05/25/10	5
Selenium	BDL	1.0	mg/kg	6010B	05/25/10	1
Silver	BDL	0.50	mg/kg	6010B	05/25/10	1
Zinc	55.	7.5	mg/kg	6010B	05/25/10	5
TPH (GC/FID) Low Fraction	0.58	0.50	mg/kg	8015D/GRO	05/22/10	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	95.2		% Rec.	602/8015	05/22/10	5
<b>Volatile Organics</b>						
Acetone	0.78	0.25	mg/kg	8260B	05/24/10	5
Acrylonitrile	BDL	0.050	mg/kg	8260B	05/24/10	5
Benzene	BDL	0.0050	mg/kg	8260B	05/24/10	5
Bromobenzene	BDL	0.0050	mg/kg	8260B	05/24/10	5
Bromodichloromethane	BDL	0.0050	mg/kg	8260B	05/24/10	5
Bromoform	BDL	0.0050	mg/kg	8260B	05/24/10	5
Bromomethane	BDL	0.025	mg/kg	8260B	05/24/10	5
n-Butylbenzene	BDL	0.0050	mg/kg	8260B	05/24/10	5
sec-Butylbenzene	BDL	0.0050	mg/kg	8260B	05/24/10	5
tert-Butylbenzene	BDL	0.0050	mg/kg	8260B	05/24/10	5
Carbon tetrachloride	BDL	0.0050	mg/kg	8260B	05/24/10	5
Chlorobenzene	BDL	0.0050	mg/kg	8260B	05/24/10	5
Chlorodibromomethane	BDL	0.0050	mg/kg	8260B	05/24/10	5
Chloroethane	BDL	0.025	mg/kg	8260B	05/24/10	5

BDL - Below Detection Limit  
 Det. Limit - Practical Quantitation Limit(PQL)  
 L459987-04 (PH) - 8.9@21.1c



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REPORT OF ANALYSIS

May 28, 2010

Mr. Brett Middleton
Encana
2717 Co. Rd. 215
Parachute, CO 81635

ESC Sample # : L459987-04

Date Received : May 20, 2010
Description : PD21 Pit Closer

Site ID : PD21

Sample ID : PD21-2-4

Project # : 10138562

Collected By : Brad Kieding
Collection Date : 05/18/10 13:30

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Lists various chemical parameters and their detection results.

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)
L459987-04 (PH) - 8.9@21.1c



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REPORT OF ANALYSIS

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2717 Co. Rd. 215
Parachute, CO 81635

Date Received : May 20, 2010
Description : PD21 Pit Closer
Sample ID : PD21-2-4
Collected By : Brad Kieding
Collection Date : 05/18/10 13:30

ESC Sample # : L459987-04
Site ID : PD21
Project # : 10138562

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Lists various chemical parameters and their detection results.

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L459987-04 (PH) - 8.9@21.1c



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May 28, 2010

Date Received : May 20, 2010  
Description : PD21 Pit Closer  
Sample ID : PD21-2-4  
Collected By : Brad Kieding  
Collection Date : 05/18/10 13:30

ESC Sample # : L459987-04  
Site ID : PD21  
Project # : 10138562

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	BDL	0.033	mg/kg	8270C	05/22/10	1
Isophorone	BDL	0.33	mg/kg	8270C	05/22/10	1
Naphthalene	BDL	0.033	mg/kg	8270C	05/22/10	1
Nitrobenzene	BDL	0.33	mg/kg	8270C	05/22/10	1
n-Nitrosodimethylamine	BDL	0.33	mg/kg	8270C	05/22/10	1
n-Nitrosodiphenylamine	BDL	0.33	mg/kg	8270C	05/22/10	1
n-Nitrosodi-n-propylamine	BDL	0.33	mg/kg	8270C	05/22/10	1
Phenanthrene	BDL	0.033	mg/kg	8270C	05/22/10	1
Benzylbutyl phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Bis(2-ethylhexyl)phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Di-n-butyl phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Diethyl phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Dimethyl phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Di-n-octyl phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Pyrene	0.054	0.033	mg/kg	8270C	05/22/10	1
1,2,4-Trichlorobenzene	BDL	0.33	mg/kg	8270C	05/22/10	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2-Chlorophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2,4-Dichlorophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2,4-Dimethylphenol	BDL	0.33	mg/kg	8270C	05/22/10	1
4,6-Dinitro-2-methylphenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2,4-Dinitrophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2-Nitrophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
4-Nitrophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
Pentachlorophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
Phenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2,4,6-Trichlorophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
Surrogate Recovery						
2-Fluorophenol	66.6		% Rec.	8270C	05/22/10	1
Phenol-d5	77.0		% Rec.	8270C	05/22/10	1
Nitrobenzene-d5	68.3		% Rec.	8270C	05/22/10	1
2-Fluorobiphenyl	66.7		% Rec.	8270C	05/22/10	1
2,4,6-Tribromophenol	59.5		% Rec.	8270C	05/22/10	1
p-Terphenyl-d14	84.4		% Rec.	8270C	05/22/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 05/25/10 17:23 Revised: 05/28/10 15:48  
L459987-04 (PH) - 8.9@21.1c



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REPORT OF ANALYSIS

May 28, 2010

Mr. Brett Middleton  
 Encana  
 2717 Co. Rd. 215  
 Parachute, CO 81635

Date Received : May 20, 2010  
 Description : PD21 Pit Closer  
 Sample ID : PD21-3-2  
 Collected By : Brad Kieding  
 Collection Date : 05/18/10 13:40

ESC Sample # : L459987-05  
 Site ID : PD21  
 Project # : 10138562

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	05/23/10	1
Chromium,Trivalent	21.	0.50	mg/kg	Calc.	05/25/10	1
ORP	46.		mV	2580	05/21/10	1
pH	9.2		su	9045D	05/21/10	1
Sodium Adsorption Ratio	0.13			Calc.	05/23/10	1
Specific Conductance	3200		umhos/cm	9050AMod	05/21/10	1
Mercury	BDL	0.020	mg/kg	7471	05/21/10	1
Arsenic	10.	1.0	mg/kg	6010B	05/25/10	1
Barium	350	0.25	mg/kg	6010B	05/25/10	1
Cadmium	0.42	0.25	mg/kg	6010B	05/25/10	1
Chromium	21.	0.50	mg/kg	6010B	05/25/10	1
Copper	17.	1.0	mg/kg	6010B	05/25/10	1
Lead	11.	0.25	mg/kg	6010B	05/25/10	1
Nickel	19.	5.0	mg/kg	6010B	05/25/10	5
Selenium	BDL	1.0	mg/kg	6010B	05/25/10	1
Silver	BDL	0.50	mg/kg	6010B	05/25/10	1
Zinc	58.	7.5	mg/kg	6010B	05/25/10	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	05/22/10	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	95.1		% Rec.	602/8015	05/22/10	5
<b>Volatile Organics</b>						
Acetone	1.4	0.25	mg/kg	8260B	05/24/10	5
Acrylonitrile	BDL	0.050	mg/kg	8260B	05/24/10	5
Benzene	BDL	0.0050	mg/kg	8260B	05/24/10	5
Bromobenzene	BDL	0.0050	mg/kg	8260B	05/24/10	5
Bromodichloromethane	BDL	0.0050	mg/kg	8260B	05/24/10	5
Bromoform	BDL	0.0050	mg/kg	8260B	05/24/10	5
Bromomethane	BDL	0.025	mg/kg	8260B	05/24/10	5
n-Butylbenzene	BDL	0.0050	mg/kg	8260B	05/24/10	5
sec-Butylbenzene	BDL	0.0050	mg/kg	8260B	05/24/10	5
tert-Butylbenzene	BDL	0.0050	mg/kg	8260B	05/24/10	5
Carbon tetrachloride	BDL	0.0050	mg/kg	8260B	05/24/10	5
Chlorobenzene	BDL	0.0050	mg/kg	8260B	05/24/10	5
Chlorodibromomethane	BDL	0.0050	mg/kg	8260B	05/24/10	5
Chloroethane	BDL	0.025	mg/kg	8260B	05/24/10	5

BDL - Below Detection Limit  
 Det. Limit - Practical Quantitation Limit(PQL)  
 L459987-05 (PH) - 9.2@21.1c



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Est. 1970

REPORT OF ANALYSIS

May 28, 2010

Mr. Brett Middleton  
Encana  
2717 Co. Rd. 215  
Parachute, CO 81635

ESC Sample # : L459987-05

Date Received : May 20, 2010  
Description : PD21 Pit Closer

Site ID : PD21

Sample ID : PD21-3-2

Project # : 10138562

Collected By : Brad Kieding  
Collection Date : 05/18/10 13:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Chloroethyl vinyl ether	BDL	0.25	mg/kg	8260B	05/24/10	5
Chloroform	BDL	0.025	mg/kg	8260B	05/24/10	5
Chloromethane	BDL	0.0050	mg/kg	8260B	05/24/10	5
2-Chlorotoluene	BDL	0.0050	mg/kg	8260B	05/24/10	5
4-Chlorotoluene	BDL	0.0050	mg/kg	8260B	05/24/10	5
1,2-Dibromo-3-Chloropropane	BDL	0.025	mg/kg	8260B	05/24/10	5
1,2-Dibromoethane	BDL	0.0050	mg/kg	8260B	05/24/10	5
Dibromomethane	BDL	0.0050	mg/kg	8260B	05/24/10	5
1,2-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	05/24/10	5
1,3-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	05/24/10	5
1,4-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	05/24/10	5
Dichlorodifluoromethane	BDL	0.025	mg/kg	8260B	05/24/10	5
1,1-Dichloroethane	BDL	0.0050	mg/kg	8260B	05/24/10	5
1,2-Dichloroethane	BDL	0.0050	mg/kg	8260B	05/24/10	5
1,1-Dichloroethene	BDL	0.0050	mg/kg	8260B	05/24/10	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	05/24/10	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	05/24/10	5
1,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	05/24/10	5
1,1-Dichloropropene	BDL	0.0050	mg/kg	8260B	05/24/10	5
1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	05/24/10	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	05/24/10	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	05/24/10	5
2,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	05/24/10	5
Di-isopropyl ether	BDL	0.0050	mg/kg	8260B	05/24/10	5
Ethylbenzene	0.012	0.0050	mg/kg	8260B	05/24/10	5
Hexachloro-1,3-butadiene	BDL	0.0050	mg/kg	8260B	05/24/10	5
Isopropylbenzene	BDL	0.0050	mg/kg	8260B	05/24/10	5
p-Isopropyltoluene	0.0064	0.0050	mg/kg	8260B	05/24/10	5
2-Butanone (MEK)	BDL	0.050	mg/kg	8260B	05/24/10	5
Methylene Chloride	BDL	0.025	mg/kg	8260B	05/24/10	5
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/kg	8260B	05/24/10	5
Methyl tert-butyl ether	BDL	0.0050	mg/kg	8260B	05/24/10	5
Naphthalene	BDL	0.025	mg/kg	8260B	05/24/10	5
n-Propylbenzene	0.0050	0.0050	mg/kg	8260B	05/24/10	5
Styrene	BDL	0.0050	mg/kg	8260B	05/24/10	5
1,1,1,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	05/24/10	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	05/24/10	5
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0050	mg/kg	8260B	05/24/10	5
Tetrachloroethene	BDL	0.0050	mg/kg	8260B	05/24/10	5
Toluene	BDL	0.025	mg/kg	8260B	05/24/10	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	05/24/10	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	05/24/10	5
1,1,1-Trichloroethane	BDL	0.0050	mg/kg	8260B	05/24/10	5
1,1,2-Trichloroethane	BDL	0.0050	mg/kg	8260B	05/24/10	5

BDL - Below Detection Limit  
Det. Limit - Practical Quantitation Limit (PQL)  
L459987-05 (PH) - 9.2@21.1c



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REPORT OF ANALYSIS

May 28, 2010

Mr. Brett Middleton
Encana
2717 Co. Rd. 215
Parachute, CO 81635

Date Received : May 20, 2010
Description : PD21 Pit Closer
Sample ID : PD21-3-2
Collected By : Brad Kieding
Collection Date : 05/18/10 13:40

ESC Sample # : L459987-05
Site ID : PD21
Project # : 10138562

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Rows include Trichloroethene, Toluene-d8, TPH (GC/FID) High Fraction, and various Base/Neutral Extractables.

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L459987-05 (PH) - 9.2@21.1c



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REPORT OF ANALYSIS

May 28, 2010

Mr. Brett Middleton  
Encana  
2717 Co. Rd. 215  
Parachute, CO 81635

Date Received : May 20, 2010  
Description : PD21 Pit Closer  
Sample ID : PD21-3-2  
Collected By : Brad Kieding  
Collection Date : 05/18/10 13:40

ESC Sample # : L459987-05  
Site ID : PD21  
Project # : 10138562

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	BDL	0.033	mg/kg	8270C	05/22/10	1
Isophorone	BDL	0.33	mg/kg	8270C	05/22/10	1
Naphthalene	BDL	0.033	mg/kg	8270C	05/22/10	1
Nitrobenzene	BDL	0.33	mg/kg	8270C	05/22/10	1
n-Nitrosodimethylamine	BDL	0.33	mg/kg	8270C	05/22/10	1
n-Nitrosodiphenylamine	BDL	0.33	mg/kg	8270C	05/22/10	1
n-Nitrosodi-n-propylamine	BDL	0.33	mg/kg	8270C	05/22/10	1
Phenanthrene	BDL	0.033	mg/kg	8270C	05/22/10	1
Benzylbutyl phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Bis(2-ethylhexyl)phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Di-n-butyl phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Diethyl phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Dimethyl phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Di-n-octyl phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Pyrene	BDL	0.033	mg/kg	8270C	05/22/10	1
1,2,4-Trichlorobenzene	BDL	0.33	mg/kg	8270C	05/22/10	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2-Chlorophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2,4-Dichlorophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2,4-Dimethylphenol	BDL	0.33	mg/kg	8270C	05/22/10	1
4,6-Dinitro-2-methylphenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2,4-Dinitrophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2-Nitrophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
4-Nitrophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
Pentachlorophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
Phenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2,4,6-Trichlorophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
Surrogate Recovery						
2-Fluorophenol	65.0		% Rec.	8270C	05/22/10	1
Phenol-d5	75.0		% Rec.	8270C	05/22/10	1
Nitrobenzene-d5	59.7		% Rec.	8270C	05/22/10	1
2-Fluorobiphenyl	66.9		% Rec.	8270C	05/22/10	1
2,4,6-Tribromophenol	44.3		% Rec.	8270C	05/22/10	1
p-Terphenyl-d14	61.3		% Rec.	8270C	05/22/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 05/25/10 17:23 Revised: 05/28/10 15:49  
L459987-05 (PH) - 9.2@21.1c



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REPORT OF ANALYSIS

May 28, 2010

Mr. Brett Middleton  
 Encana  
 2717 Co. Rd. 215  
 Parachute, CO 81635

Date Received : May 20, 2010  
 Description : PD21 Pit Closer  
 Sample ID : PD21-3-4  
 Collected By : Brad Kieding  
 Collection Date : 05/18/10 13:50

ESC Sample # : L459987-06  
 Site ID : PD21  
 Project # : 10138562

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	05/23/10	1
Chromium,Trivalent	22.	0.50	mg/kg	Calc.	05/25/10	1
ORP	35.		mV	2580	05/21/10	1
pH	9.4		su	9045D	05/21/10	1
Sodium Adsorption Ratio	0.040			Calc.	05/23/10	1
Specific Conductance	3400		umhos/cm	9050AMod	05/21/10	1
Mercury	BDL	0.020	mg/kg	7471	05/21/10	1
Arsenic	7.7	1.0	mg/kg	6010B	05/25/10	1
Barium	180	0.25	mg/kg	6010B	05/25/10	1
Cadmium	0.68	0.25	mg/kg	6010B	05/25/10	1
Chromium	22.	0.50	mg/kg	6010B	05/25/10	1
Copper	14.	1.0	mg/kg	6010B	05/25/10	1
Lead	8.9	0.25	mg/kg	6010B	05/25/10	1
Nickel	18.	5.0	mg/kg	6010B	05/25/10	5
Selenium	BDL	1.0	mg/kg	6010B	05/25/10	1
Silver	BDL	0.50	mg/kg	6010B	05/25/10	1
Zinc	65.	7.5	mg/kg	6010B	05/25/10	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	05/22/10	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	94.8		% Rec.	602/8015	05/22/10	5
<b>Volatile Organics</b>						
Acetone	BDL	0.25	mg/kg	8260B	05/25/10	5
Acrylonitrile	BDL	0.050	mg/kg	8260B	05/25/10	5
Benzene	BDL	0.0050	mg/kg	8260B	05/25/10	5
Bromobenzene	BDL	0.0050	mg/kg	8260B	05/25/10	5
Bromodichloromethane	BDL	0.0050	mg/kg	8260B	05/25/10	5
Bromoform	BDL	0.0050	mg/kg	8260B	05/25/10	5
Bromomethane	BDL	0.025	mg/kg	8260B	05/25/10	5
n-Butylbenzene	BDL	0.0050	mg/kg	8260B	05/25/10	5
sec-Butylbenzene	BDL	0.0050	mg/kg	8260B	05/25/10	5
tert-Butylbenzene	BDL	0.0050	mg/kg	8260B	05/25/10	5
Carbon tetrachloride	BDL	0.0050	mg/kg	8260B	05/25/10	5
Chlorobenzene	BDL	0.0050	mg/kg	8260B	05/25/10	5
Chlorodibromomethane	BDL	0.0050	mg/kg	8260B	05/25/10	5
Chloroethane	BDL	0.025	mg/kg	8260B	05/25/10	5

BDL - Below Detection Limit  
 Det. Limit - Practical Quantitation Limit(PQL)  
 L459987-06 (PH) - 9.4@21.1c



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REPORT OF ANALYSIS

May 28, 2010

Mr. Brett Middleton
Encana
2717 Co. Rd. 215
Parachute, CO 81635

Date Received : May 20, 2010
Description : PD21 Pit Closer
Sample ID : PD21-3-4
Collected By : Brad Kieding
Collection Date : 05/18/10 13:50

ESC Sample # : L459987-06
Site ID : PD21
Project # : 10138562

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Lists various chemical parameters and their detection results.

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)
L459987-06 (PH) - 9.4@21.1c



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REPORT OF ANALYSIS

May 28, 2010

Mr. Brett Middleton  
Encana  
2717 Co. Rd. 215  
Parachute, CO 81635

Date Received : May 20, 2010  
Description : PD21 Pit Closer  
Sample ID : PD21-3-4  
Collected By : Brad Kieding  
Collection Date : 05/18/10 13:50

ESC Sample # : L459987-06  
Site ID : PD21  
Project # : 10138562

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Trichloroethene	BDL	0.0050	mg/kg	8260B	05/25/10	5
Trichlorofluoromethane	BDL	0.025	mg/kg	8260B	05/25/10	5
1,2,3-Trichloropropane	BDL	0.0050	mg/kg	8260B	05/25/10	5
1,2,4-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	05/25/10	5
1,2,3-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	05/25/10	5
1,3,5-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	05/25/10	5
Vinyl chloride	BDL	0.0050	mg/kg	8260B	05/25/10	5
Xylenes, Total	BDL	0.015	mg/kg	8260B	05/25/10	5
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	05/25/10	5
Dibromofluoromethane	93.8		% Rec.	8260B	05/25/10	5
4-Bromofluorobenzene	110.		% Rec.	8260B	05/25/10	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	05/21/10	1
Surrogate recovery(%)						
o-Terphenyl	59.8		% Rec.	3546/DRO	05/21/10	1
Base/Neutral Extractables						
Acenaphthene	BDL	0.033	mg/kg	8270C	05/22/10	1
Acenaphthylene	BDL	0.033	mg/kg	8270C	05/22/10	1
Anthracene	BDL	0.033	mg/kg	8270C	05/22/10	1
Benzidine	BDL	0.33	mg/kg	8270C	05/22/10	1
Benzo(a)anthracene	BDL	0.033	mg/kg	8270C	05/22/10	1
Benzo(b)fluoranthene	BDL	0.033	mg/kg	8270C	05/22/10	1
Benzo(k)fluoranthene	BDL	0.033	mg/kg	8270C	05/22/10	1
Benzo(g,h,i)perylene	BDL	0.033	mg/kg	8270C	05/22/10	1
Benzo(a)pyrene	BDL	0.033	mg/kg	8270C	05/22/10	1
Bis(2-chlorethoxy)methane	BDL	0.33	mg/kg	8270C	05/22/10	1
Bis(2-chloroethyl)ether	BDL	0.33	mg/kg	8270C	05/22/10	1
Bis(2-chloroisopropyl)ether	BDL	0.33	mg/kg	8270C	05/22/10	1
4-Bromophenyl-phenylether	BDL	0.33	mg/kg	8270C	05/22/10	1
2-Chloronaphthalene	BDL	0.033	mg/kg	8270C	05/22/10	1
4-Chlorophenyl-phenylether	BDL	0.33	mg/kg	8270C	05/22/10	1
Chrysene	BDL	0.033	mg/kg	8270C	05/22/10	1
Dibenz(a,h)anthracene	BDL	0.033	mg/kg	8270C	05/22/10	1
3,3-Dichlorobenzidine	BDL	0.33	mg/kg	8270C	05/22/10	1
2,4-Dinitrotoluene	BDL	0.33	mg/kg	8270C	05/22/10	1
2,6-Dinitrotoluene	BDL	0.33	mg/kg	8270C	05/22/10	1
Fluoranthene	0.058	0.033	mg/kg	8270C	05/22/10	1
Fluorene	BDL	0.033	mg/kg	8270C	05/22/10	1
Hexachlorobenzene	BDL	0.33	mg/kg	8270C	05/22/10	1
Hexachloro-1,3-butadiene	BDL	0.33	mg/kg	8270C	05/22/10	1
Hexachlorocyclopentadiene	BDL	0.33	mg/kg	8270C	05/22/10	1
Hexachloroethane	BDL	0.33	mg/kg	8270C	05/22/10	1

BDL - Below Detection Limit  
Det. Limit - Practical Quantitation Limit(PQL)  
L459987-06 (PH) - 9.4@21.1c



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REPORT OF ANALYSIS

Mr. Brett Middleton  
 Encana  
 2717 Co. Rd. 215  
 Parachute, CO 81635

May 28, 2010

Date Received : May 20, 2010  
 Description : PD21 Pit Closer  
 Sample ID : PD21-3-4  
 Collected By : Brad Kieding  
 Collection Date : 05/18/10 13:50

ESC Sample # : L459987-06  
 Site ID : PD21  
 Project # : 10138562

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	BDL	0.033	mg/kg	8270C	05/22/10	1
Isophorone	BDL	0.33	mg/kg	8270C	05/22/10	1
Naphthalene	BDL	0.033	mg/kg	8270C	05/22/10	1
Nitrobenzene	BDL	0.33	mg/kg	8270C	05/22/10	1
n-Nitrosodimethylamine	BDL	0.33	mg/kg	8270C	05/22/10	1
n-Nitrosodiphenylamine	BDL	0.33	mg/kg	8270C	05/22/10	1
n-Nitrosodi-n-propylamine	BDL	0.33	mg/kg	8270C	05/22/10	1
Phenanthrene	BDL	0.033	mg/kg	8270C	05/22/10	1
Benzylbutyl phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Bis(2-ethylhexyl)phthalate	0.38	0.33	mg/kg	8270C	05/22/10	1
Di-n-butyl phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Diethyl phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Dimethyl phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Di-n-octyl phthalate	BDL	0.33	mg/kg	8270C	05/22/10	1
Pyrene	0.25	0.033	mg/kg	8270C	05/22/10	1
1,2,4-Trichlorobenzene	BDL	0.33	mg/kg	8270C	05/22/10	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2-Chlorophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2,4-Dichlorophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2,4-Dimethylphenol	BDL	0.33	mg/kg	8270C	05/22/10	1
4,6-Dinitro-2-methylphenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2,4-Dinitrophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2-Nitrophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
4-Nitrophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
Pentachlorophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
Phenol	BDL	0.33	mg/kg	8270C	05/22/10	1
2,4,6-Trichlorophenol	BDL	0.33	mg/kg	8270C	05/22/10	1
Surrogate Recovery						
2-Fluorophenol	83.0		% Rec.	8270C	05/22/10	1
Phenol-d5	90.2		% Rec.	8270C	05/22/10	1
Nitrobenzene-d5	78.3		% Rec.	8270C	05/22/10	1
2-Fluorobiphenyl	74.9		% Rec.	8270C	05/22/10	1
2,4,6-Tribromophenol	72.2		% Rec.	8270C	05/22/10	1
p-Terphenyl-d14	88.4		% Rec.	8270C	05/22/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 05/25/10 17:23 Revised: 05/28/10 15:49  
 L459987-06 (PH) - 9.4@21.1c



12065 Lebanon Rd.  
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Tax I.D. 62-0814289

Est. 1970

Chris Hines  
EnCana Oil & Gas Inc. - CO  
2717 County Road 215, Suite 100  
Parachute, CO 81635

## Report Summary

Tuesday June 08, 2010

Report Number: L462399

Samples Received: 06/03/10

Client Project:

Description: PD21 Pit Bottom Sample

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Jarred Willis , ESC Representative

### Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140  
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
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Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

June 08, 2010

Chris Hines  
 EnCana Oil & Gas Inc. - CO  
 2717 County Road 215, Suite 100  
 Parachute, CO 81635

Date Received : June 03, 2010  
 Description : PD21 Pit Bottom Sample  
 Sample ID : PD21-PIT BOTTOM-060210  
 Collected By : Aaron Stacy  
 Collection Date : 06/02/10 14:00

ESC Sample # : L462399-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	06/05/10	1
Chromium,Trivalent	19.	0.50	mg/kg	Calc.	06/06/10	1
ORP	BDL		mV	2580	06/04/10	1
pH	8.6		su	9045D	06/05/10	1
Sodium Adsorption Ratio	46.			Calc.	06/07/10	5
Specific Conductance	4.2		umhos/cm	9050AMod	06/07/10	1
Mercury	0.028	0.020	mg/kg	7471	06/06/10	1
Arsenic	11.	5.0	mg/kg	6010B	06/06/10	5
Barium	860	0.25	mg/kg	6010B	06/06/10	1
Cadmium	0.75	0.25	mg/kg	6010B	06/06/10	1
Chromium	19.	0.50	mg/kg	6010B	06/06/10	1
Copper	18.	1.0	mg/kg	6010B	06/06/10	1
Lead	16.	0.25	mg/kg	6010B	06/06/10	1
Nickel	13.	1.0	mg/kg	6010B	06/06/10	1
Selenium	4.3	1.0	mg/kg	6010B	06/06/10	1
Silver	BDL	0.50	mg/kg	6010B	06/06/10	1
Zinc	45.	1.5	mg/kg	6010B	06/06/10	1
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	06/06/10	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	86.6		% Rec.	602/8015	06/06/10	5
Benzene	BDL	0.0050	mg/kg	8260B	06/08/10	5
Toluene	BDL	0.025	mg/kg	8260B	06/08/10	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	06/08/10	5
Total Xylenes	BDL	0.015	mg/kg	8260B	06/08/10	5
Surrogate Recovery						
Toluene-d8	99.4		% Rec.	8260B	06/08/10	5
Dibromofluoromethane	90.7		% Rec.	8260B	06/08/10	5
a,a,a-Trifluorotoluene	103.		% Rec.	8260B	06/08/10	5
4-Bromofluorobenzene	109.		% Rec.	8260B	06/08/10	5
TPH (GC/FID) High Fraction	320	80.	mg/kg	3546/DRO	06/08/10	20
Surrogate recovery(%) o-Terphenyl	0.00		% Rec.	3546/DRO	06/08/10	20

Polynuclear Aromatic Hydrocarbons

BDL - Below Detection Limit  
 Det. Limit - Practical Quantitation Limit(PQL)  
 L462399-01 (PH) - 8.6@22.6C



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REPORT OF ANALYSIS

June 08, 2010

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

ESC Sample # : L462399-01

Date Received : June 03, 2010
Description : PD21 Pit Bottom Sample

Site ID :

Sample ID : PD21-PIT BOTTOM-060210

Project # :

Collected By : Aaron Stacy
Collection Date : 06/02/10 14:00

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Rows include Anthracene, Acenaphthene, Acenaphthylene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene, and Surrogate Recovery (Nitrobenzene-d5, 2-Fluorobiphenyl, p-Terphenyl-d14).

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 06/08/10 17:07 Printed: 06/08/10 17:07
L462399-01 (PH) - 8.6@22.6C