

Ms. Olivia Garcia
Environmental Engineer, Region 2
United States Forest Service – White River National Forest
P.O. Box 948
Glenwood Springs, Colorado 81602

**RE: Remedial Action Report: Divide Creek Unit #35 (B1) Well Pad
Mesa County, Colorado**

Dear Ms. Garcia

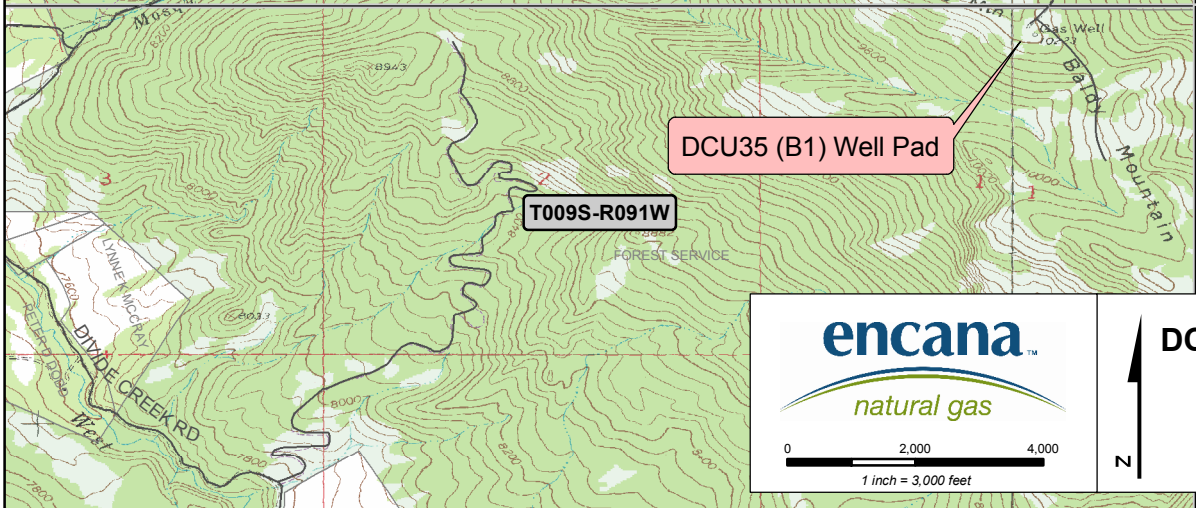
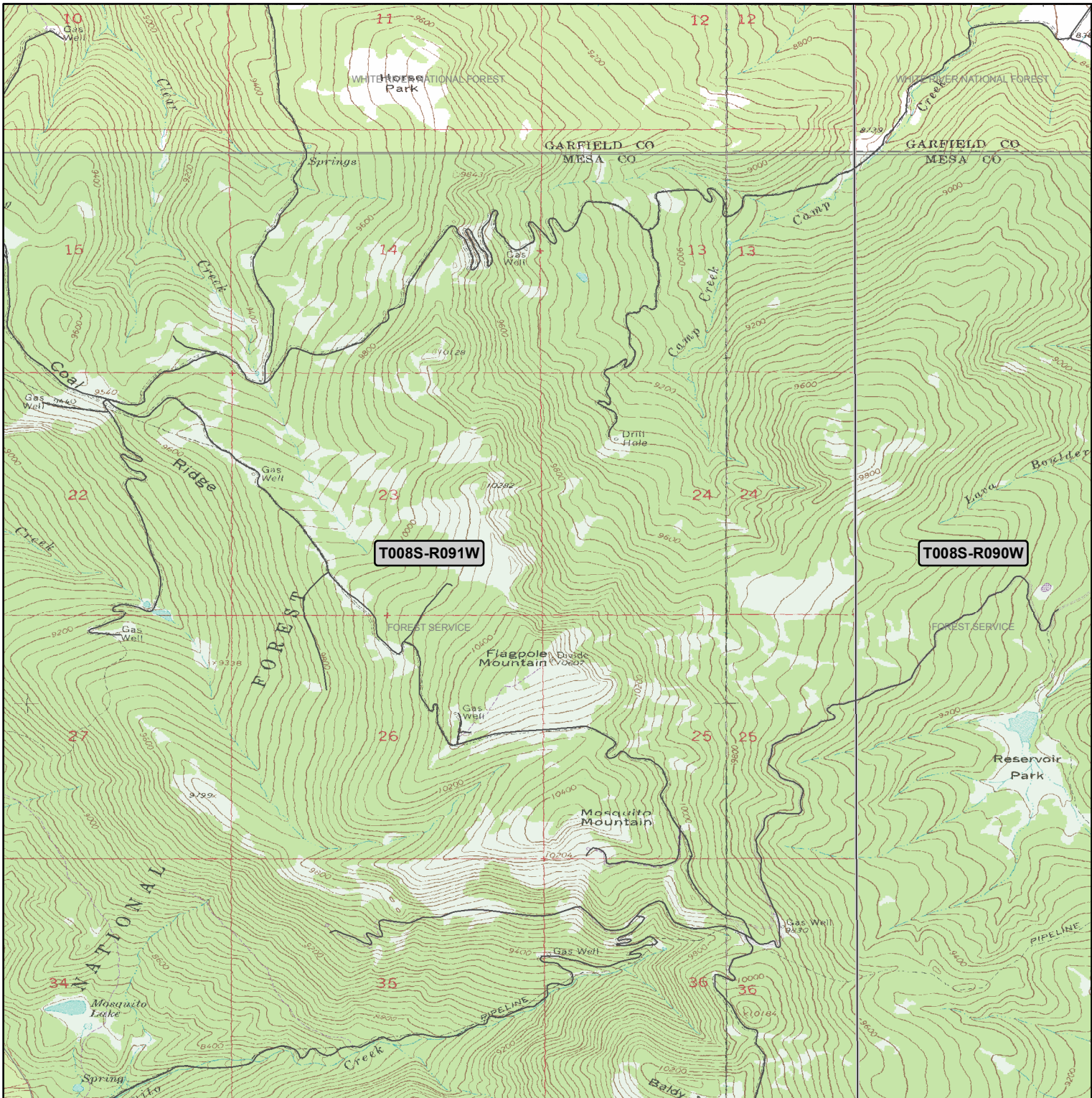
Between August 25th and 29th, 2008 Encana Oil and Gas (USA) Inc. (Encana) remediated contaminated soil from a drilling mud pit on Encana's DCU-35 (B1) well pad. Figure 1 provides a general vicinity map of the well pad. The drilling pit was a legacy from the prior operator (Sun Oil Company) on the same location. This remediation was triggered when a release of drilling fluids from Encana operations was identified on July 12, 2007. During the recovery of lost drilling fluids from this release the historic drilling mud pit was partially exposed. This letter provides a summary of the 2008 excavation and sampling efforts, clearance documentation, and waste disposal for remediation of the historic drilling pit. Additionally, this letter is written to address any outstanding issues in hopes of bringing this incident to closure.







Cordilleran Compliance Services Inc. (Cordilleran) conducted remedial activities at the DCU-35 (B1) well pad in the fall of 2007 until weather conditions halted the completion of the effort. The excavation was winterized to prevent the migration of contaminants and equipment was demobilized. Encana reinitiated remedial efforts in August 2008 following the requirements provided in the June 27, 2008 Notice of Order by the Authorized Officer, and by adaptations agreed to in the field between the Encana Environmental Field Coordinator and the designated US Forest Service (USFS) personnel. All remedial activities were conducted under the direct supervision of Encana and USFS personnel.


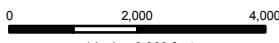
Remedial actions:


- 5 trenches were dug in the 2007 excavation from east to west to delineate the extent of contamination before recovering the impacted soil.
- Top soil from above the contaminated area was segregated to minimize the volume of soil to be disposed.
- Select locations within the 2007 excavation and trenches were sampled and field screened for Total Petroleum Hydrocarbons (TPH) using a Dexsil® PetroFLAG Analyzer (U.S. EPA SW-846 Method 9074).
- Contamination was visually identified as a gray to dark grey bentonitic clay lense. Field analysis of the contaminated soil revealed TPH concentrations ranging from 3,400 to greater than 10,000 ppm.
- Based on field screening and visual indicators, contaminated soil was removed and staged for disposal in a lined containment.
- Contamination was removed until visual indicators were no longer apparent. Recovery continued until field tests for TPH indicated concentrations less than 8,000 ppm. Groundwater was not encountered during this effort.
- Once Encana was confident that all remaining soil was below the established action level of 8,000 mg/kg TPH via field test kits, a split confirmation sampling effort for laboratory analysis was conducted by Encana and the USFS.

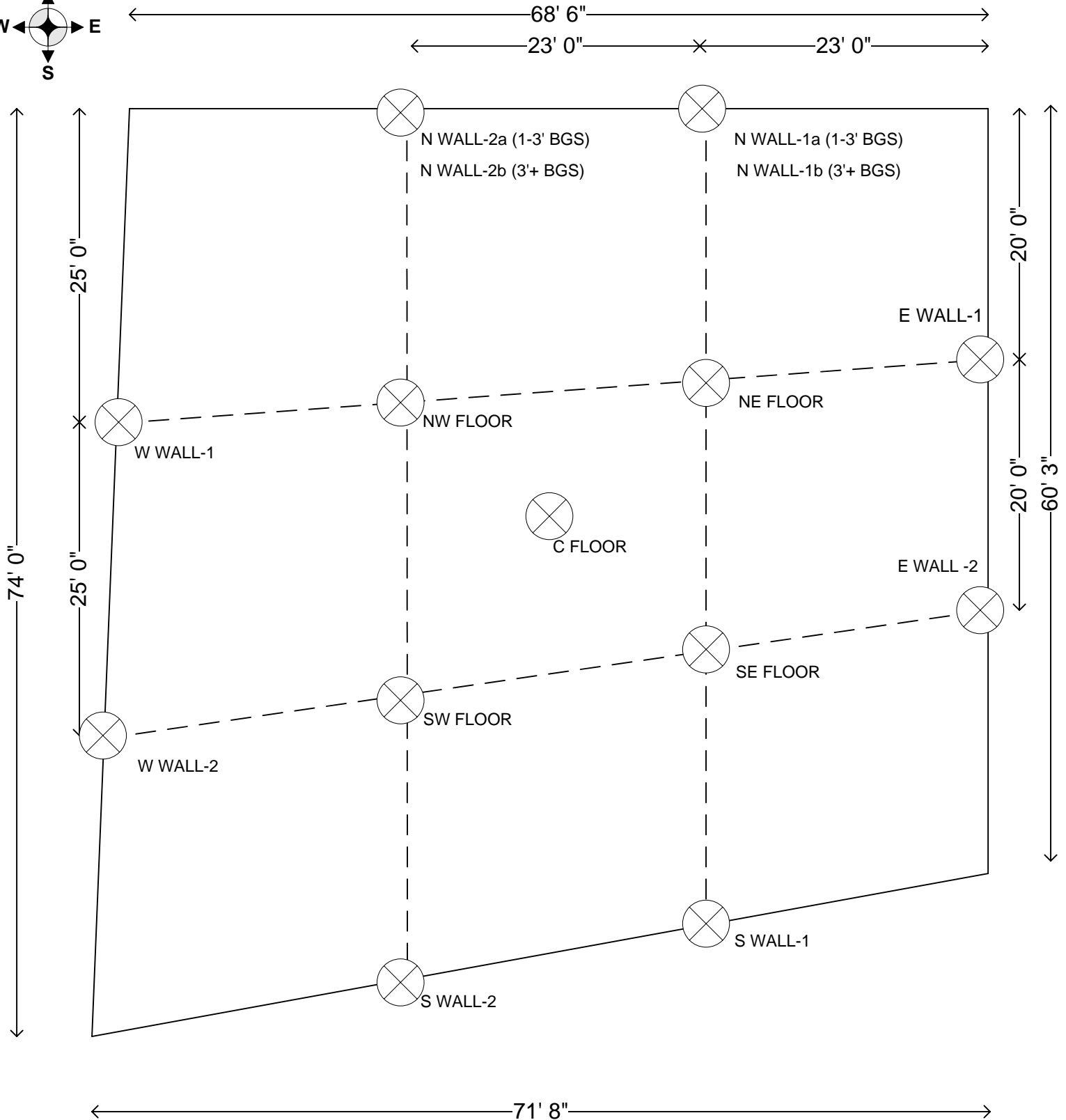
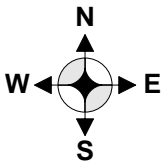
A total of 15 samples were collected to represent the remaining soil in the excavation. At the time of collection, soil samples were homogenized in a stainless steel bowl and equally dispersed into separate jars and sent to separate laboratories for analysis (GRO / DRO per EPA method 8015). Samples under the custody the USFS were sent to ACZ Laboratories while Encana samples were analyzed by



 Access Road
 Township Boundary
 Parcel Boundary
Surface Ownership
 Not Identified Below (clear)
 EnCana (transparent)
 USFS (transparent)
 BLM (transparent)


 natural gas

 1 inch = 3,000 feet


DCU35 (B1) Well Pad
 Divide Creek Unit
 Mesa County, Colorado



 Sample Location


	Figure 2 – Sample Location Map	
	DCU 35 (B1) Mesa County, Colorado	
	NWNE, Sec 1, T9S, R91W, 6 th	
	Drawn by: D Krieg	Date: 6/1/10

Figure 3- Reclamation Plan

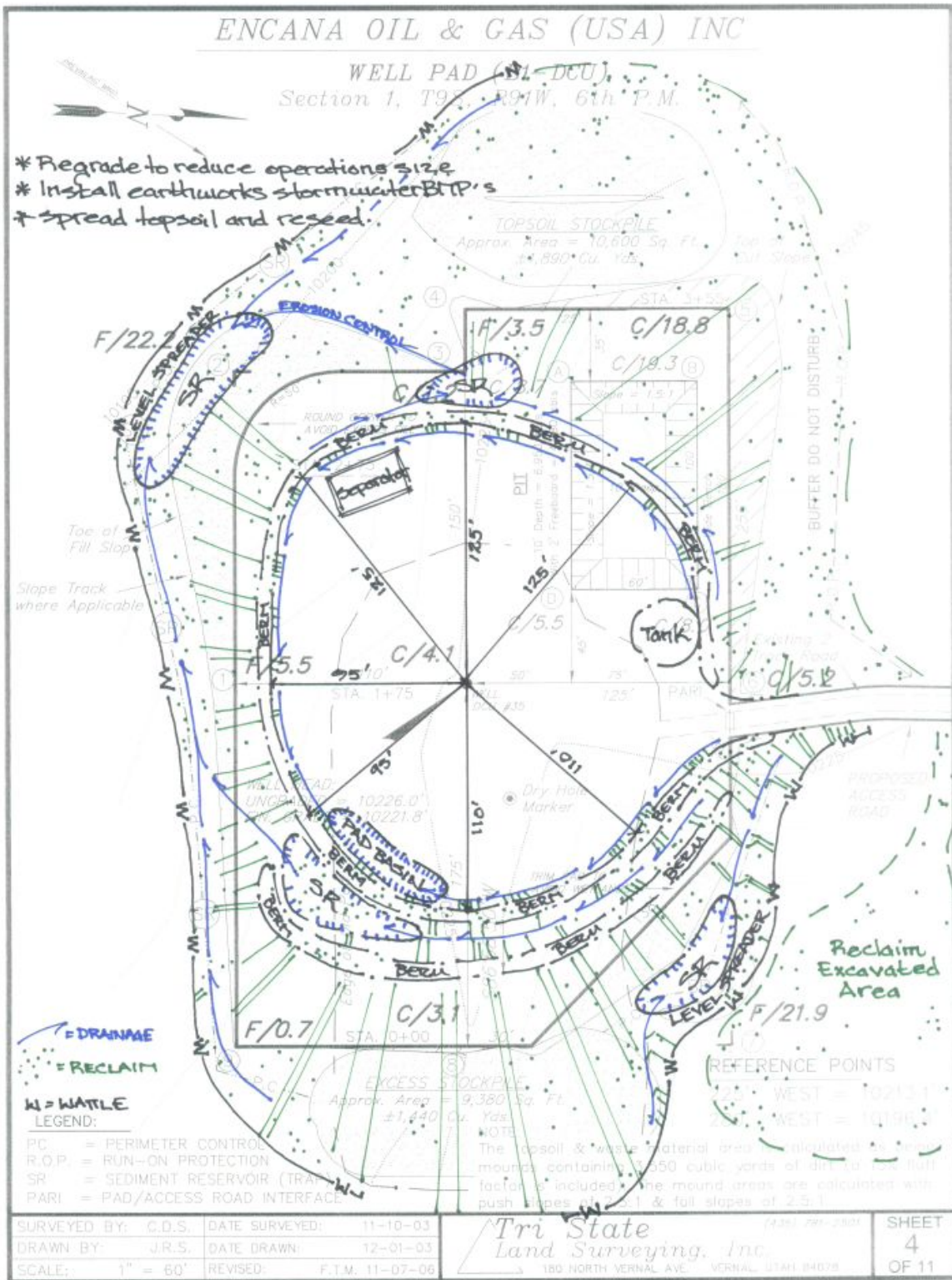


Table 1- DCU-35 Analytical Summary (TPH mg/kg)		
Sample Location	Laboratory	
	USFS ACZ	Encana ESC
North Wall 1A	9	67
North Wall 1B	ND	7.4
North Wall 2A	210	26
North Wall 2B	600	230
S Wall 1	15	ND
S Wall 2	21	49
W Wall 1	1170	180
W Wall 2	340	27
E Wall 1	10	4.2
E Wall 2	430	19
NW Floor	620	310
NE Floor	330	77
SW Floor	750	400
SE Floor	530	260
C Floor	720	130
Field Blank	14	NA
<p>Note: COGCC allowable concentration of TPH for non-sensitive areas is 10,000 ppm. (revised September, 2006)</p> <p>NA - not analyzed</p> <p>ND - non-detect</p>		

Appendix A – Analytical Results



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Tax I.D. 62-0814289

Est. 1970

Brad Kieding
Encana
2717 Co. Rd. 215
Parachute, CO 81635

Report Summary

Friday September 05, 2008

Report Number: L362985

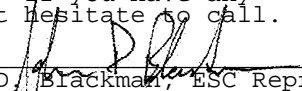
Samples Received: 09/03/08

Client Project:

Description: DCU-35

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:


John D. Blackman, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 09227, 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, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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Brad Kieding
Encana
2717 Co. Rd. 215
Parachute, CO 81635

Report Summary

Friday September 05, 2008

Report Number: L363002

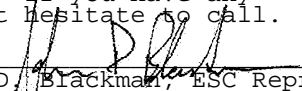
Samples Received: 09/03/08

Client Project:

Description: DCU-35

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Entire Report Reviewed By:


John D. Blackman, ESC Representative

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REPORT OF ANALYSIS

Brad Kieding
Encana
2717 Co. Rd. 215
Parachute, CO 81635

September 05, 2008

Date Received : September 03, 2008
Description : DCU-35
Sample ID : N WALL-1A
Collected By : BWK
Collection Date : 09/02/08 12:40

ESC Sample # : L363002-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	09/03/08	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	88.9		% Rec.	8015D/GRO	09/03/08	5
TPH (GC/FID) High Fraction	67.	4.0	mg/kg	3546/DRO	09/03/08	1
Surrogate Recovery (50-150) o-Terphenyl	94.2		% Rec.	3546/DRO	09/03/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Brad Kieding
Encana
2717 Co. Rd. 215
Parachute, CO 81635

September 05, 2008

Date Received : September 03, 2008
Description : DCU-35
Sample ID : N WALL-1B
Collected By : BWK
Collection Date : 09/02/08 12:45

ESC Sample # : L363002-02

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	09/03/08	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	88.8		% Rec.	8015D/GRO	09/03/08	5
TPH (GC/FID) High Fraction	7.4	4.0	mg/kg	3546/DRO	09/03/08	1
Surrogate Recovery (50-150) o-Terphenyl	93.9		% Rec.	3546/DRO	09/03/08	1

BDL - Below Detection Limit

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REPORT OF ANALYSIS

Brad Kieding
Encana
2717 Co. Rd. 215
Parachute, CO 81635

September 05, 2008

Date Received : September 03, 2008
Description : DCU-35
Sample ID : N WALL-2A
Collected By : BWK
Collection Date : 09/02/08 12:50

ESC Sample # : L363002-03

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	09/03/08	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	89.4		% Rec.	8015D/GRO	09/03/08	5
TPH (GC/FID) High Fraction	26.	4.0	mg/kg	3546/DRO	09/03/08	1
Surrogate Recovery (50-150) o-Terphenyl	80.6		% Rec.	3546/DRO	09/03/08	1

BDL - Below Detection Limit

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REPORT OF ANALYSIS

Brad Kieding
Encana
2717 Co. Rd. 215
Parachute, CO 81635

September 05, 2008

Date Received : September 03, 2008
Description : DCU-35
Sample ID : N WALL-2B
Collected By : BWK
Collection Date : 09/02/08 12:55

ESC Sample # : L363002-04

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	09/03/08	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	88.7		% Rec.	8015D/GRO	09/03/08	5
TPH (GC/FID) High Fraction	230	4.0	mg/kg	3546/DRO	09/03/08	1
Surrogate Recovery (50-150) o-Terphenyl	111.		% Rec.	3546/DRO	09/03/08	1

BDL - Below Detection Limit

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REPORT OF ANALYSIS

Brad Kieding
Encana
2717 Co. Rd. 215
Parachute, CO 81635

September 05, 2008

Date Received : September 03, 2008
Description : DCU-35
Sample ID : W WALL0-1
Collected By : BWK
Collection Date : 09/02/08 13:10

ESC Sample # : L363002-05

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	09/03/08	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	88.1		% Rec.	8015D/GRO	09/03/08	5
TPH (GC/FID) High Fraction	180	80.	mg/kg	3546/DRO	09/04/08	20
Surrogate Recovery (50-150) o-Terphenyl	0.00		% Rec.	3546/DRO	09/04/08	20

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Brad Kieding
Encana
2717 Co. Rd. 215
Parachute, CO 81635

September 05, 2008

Date Received : September 03, 2008
Description : DCU-35
Sample ID : NW FLOOR
Collected By : BWK
Collection Date : 09/02/08 13:25

ESC Sample # : L363002-06

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	09/03/08	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	88.9		% Rec.	8015D/GRO	09/03/08	5
TPH (GC/FID) High Fraction	310	4.0	mg/kg	3546/DRO	09/03/08	1
Surrogate Recovery (50-150) o-Terphenyl	111.		% Rec.	3546/DRO	09/03/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Brad Kieding
Encana
2717 Co. Rd. 215
Parachute, CO 81635

September 05, 2008

Date Received : September 03, 2008
Description : DCU-35
Sample ID : NE FLOOR
Collected By : BWK
Collection Date : 09/02/08 13:35

ESC Sample # : L363002-07

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	09/03/08	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	88.4		% Rec.	8015D/GRO	09/03/08	5
TPH (GC/FID) High Fraction	77.	4.0	mg/kg	3546/DRO	09/03/08	1
Surrogate Recovery (50-150) o-Terphenyl	81.9		% Rec.	3546/DRO	09/03/08	1

BDL - Below Detection Limit

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Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L363002-05	o-Terphenyl	J7

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J7	Surrogate recovery limits cannot be evaluated; surrogates were diluted out
Qualifier Report Information	
ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).	
Definitions	
Accuracy	- The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
Precision	- The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
Surrogate	- Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
TIC	- Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
09/05/08 at 10:43:51

TSR Signing Reports: 151
R4 - Rush: Three Day

Works closely with Cordilleran.Charge Codes: AFE - 4021929; JDE - 8715.692. Put AFE or JDE
after sample ids. 10/4/07 JB.

Sample: L363002-01 Account: ENCRCO Received: 09/03/08 09:00 Due Date: 09/08/08 00:00 RPT Date: 09/05/08 10:43
Changed due date. jg-9/3
Sample: L363002-02 Account: ENCRCO Received: 09/03/08 09:00 Due Date: 09/08/08 00:00 RPT Date: 09/05/08 10:43
Sample: L363002-03 Account: ENCRCO Received: 09/03/08 09:00 Due Date: 09/08/08 00:00 RPT Date: 09/05/08 10:43
Sample: L363002-04 Account: ENCRCO Received: 09/03/08 09:00 Due Date: 09/08/08 00:00 RPT Date: 09/05/08 10:43
Sample: L363002-05 Account: ENCRCO Received: 09/03/08 09:00 Due Date: 09/08/08 00:00 RPT Date: 09/05/08 10:43
Sample: L363002-06 Account: ENCRCO Received: 09/03/08 09:00 Due Date: 09/08/08 00:00 RPT Date: 09/05/08 10:43
Sample: L363002-07 Account: ENCRCO Received: 09/03/08 09:00 Due Date: 09/08/08 00:00 RPT Date: 09/05/08 10:43



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REPORT OF ANALYSIS

Brad Kieding
Encana
2717 Co. Rd. 215
Parachute, CO 81635

September 05, 2008

Date Received : September 03, 2008
Description : DCU-35
Sample ID : SW FLOOR
Collected By :
Collection Date : 09/02/08 13:50

ESC Sample # : L362985-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	09/03/08	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	87.5		% Rec.	8015D/GRO	09/03/08	5
TPH (GC/FID) High Fraction	400	80.	mg/kg	3546/DRO	09/04/08	20
Surrogate Recovery (50-150) o-Terphenyl	0.00		% Rec.	3546/DRO	09/04/08	20

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Brad Kieding
Encana
2717 Co. Rd. 215
Parachute, CO 81635

September 05, 2008

Date Received : September 03, 2008
Description : DCU-35
Sample ID : SE FLOOR
Collected By :
Collection Date : 09/02/08 14:00

ESC Sample # : L362985-02

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	09/03/08	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	87.8		% Rec.	8015D/GRO	09/03/08	5
TPH (GC/FID) High Fraction	260	4.0	mg/kg	3546/DRO	09/03/08	1
Surrogate Recovery (50-150) o-Terphenyl	94.3		% Rec.	3546/DRO	09/03/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Brad Kieding
Encana
2717 Co. Rd. 215
Parachute, CO 81635

September 05, 2008

Date Received : September 03, 2008
Description : DCU-35
Sample ID : C FLOOR
Collected By :
Collection Date : 09/02/08 14:20

ESC Sample # : L362985-03

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	09/03/08	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	88.0		% Rec.	8015D/GRO	09/03/08	5
TPH (GC/FID) High Fraction	130	80.	mg/kg	3546/DRO	09/04/08	20
Surrogate Recovery (50-150) o-Terphenyl	0.00		% Rec.	3546/DRO	09/04/08	20

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**ENVIRONMENTAL
SCIENCE CORP.**

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Brad Kieding
Encana
2717 Co. Rd. 215
Parachute, CO 81635

September 05, 2008

Date Received : September 03, 2008
Description : DCU-35
Sample ID : W WALL-2
Collected By :
Collection Date : 09/02/08 14:35

ESC Sample # : L362985-04

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	09/03/08	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	88.2		% Rec.	8015D/GRO	09/03/08	5
TPH (GC/FID) High Fraction	27.	4.0	mg/kg	3546/DRO	09/03/08	1
Surrogate Recovery (50-150) o-Terphenyl	103.		% Rec.	3546/DRO	09/03/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Brad Kieding
Encana
2717 Co. Rd. 215
Parachute, CO 81635

September 05, 2008

Date Received : September 03, 2008
Description : DCU-35
Sample ID : S WALL-2
Collected By :
Collection Date : 09/02/08 14:50

ESC Sample # : L362985-05

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	09/03/08	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	88.0		% Rec.	8015D/GRO	09/03/08	5
TPH (GC/FID) High Fraction	49.	4.0	mg/kg	3546/DRO	09/03/08	1
Surrogate Recovery (50-150) o-Terphenyl	89.3		% Rec.	3546/DRO	09/03/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Brad Kieding
Encana
2717 Co. Rd. 215
Parachute, CO 81635

September 05, 2008

Date Received : September 03, 2008
Description : DCU-35
Sample ID : S WALL-1
Collected By :
Collection Date : 09/02/08 15:00

ESC Sample # : L362985-06

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	09/03/08	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	88.0		% Rec.	8015D/GRO	09/03/08	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	09/03/08	1
Surrogate Recovery (50-150) o-Terphenyl	91.5		% Rec.	3546/DRO	09/03/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Brad Kieding
Encana
2717 Co. Rd. 215
Parachute, CO 81635

September 05, 2008

Date Received : September 03, 2008
Description : DCU-35
Sample ID : E WALL-2
Collected By :
Collection Date : 09/02/08 15:05

ESC Sample # : L362985-07

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	09/03/08	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	88.1		% Rec.	8015D/GRO	09/03/08	5
TPH (GC/FID) High Fraction	19.	4.0	mg/kg	3546/DRO	09/03/08	1
Surrogate Recovery (50-150) o-Terphenyl	86.8		% Rec.	3546/DRO	09/03/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Brad Kieding
Encana
2717 Co. Rd. 215
Parachute, CO 81635

September 05, 2008

Date Received : September 03, 2008
Description : DCU-35
Sample ID : E WALL-1
Collected By :
Collection Date : 09/02/08 15:10

ESC Sample # : L362985-08

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	09/03/08	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	88.1		% Rec.	8015D/GRO	09/03/08	5
TPH (GC/FID) High Fraction	4.2	4.0	mg/kg	3546/DRO	09/03/08	1
Surrogate Recovery (50-150) o-Terphenyl	81.9		% Rec.	3546/DRO	09/03/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L362985-01	o-Terphenyl	J7
L362985-03	o-Terphenyl	J7

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J7	Surrogate recovery limits cannot be evaluated; surrogates were diluted out
Qualifier Report Information	
ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).	
Definitions	
Accuracy	- The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
Precision	- The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
Surrogate	- Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
TIC	- Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
09/05/08 at 10:39:50

TSR Signing Reports: 151
R4 - Rush: Three Day

Works closely with Cordilleran.Charge Codes: AFE - 4021929; JDE - 8715.692. Put AFE or JDE
after sample ids. 10/4/07 JB.

Sample: L362985-01 Account: ENCRCO Received: 09/03/08 09:00 Due Date: 09/08/08 00:00 RPT Date: 09/05/08 10:39
Changed due date. jg-9/3
Sample: L362985-02 Account: ENCRCO Received: 09/03/08 09:00 Due Date: 09/08/08 00:00 RPT Date: 09/05/08 10:39
Sample: L362985-03 Account: ENCRCO Received: 09/03/08 09:00 Due Date: 09/08/08 00:00 RPT Date: 09/05/08 10:39
Sample: L362985-04 Account: ENCRCO Received: 09/03/08 09:00 Due Date: 09/08/08 00:00 RPT Date: 09/05/08 10:39
Sample: L362985-05 Account: ENCRCO Received: 09/03/08 09:00 Due Date: 09/08/08 00:00 RPT Date: 09/05/08 10:39
Sample: L362985-06 Account: ENCRCO Received: 09/03/08 09:00 Due Date: 09/08/08 00:00 RPT Date: 09/05/08 10:39
Sample: L362985-07 Account: ENCRCO Received: 09/03/08 09:00 Due Date: 09/08/08 00:00 RPT Date: 09/05/08 10:39
Sample: L362985-08 Account: ENCRCO Received: 09/03/08 09:00 Due Date: 09/08/08 00:00 RPT Date: 09/05/08 10:39

Appendix B – Reclamation Photos



Typical view of impacted area in early Spring 2008. The lined area is the historic Sun Oil Company drilling mud pit and the target of 2008 remedial activities. The liner was installed as a component of the 2007 winterization effort.



Overview of post remediation grading in the fall of 2008. Stormwater features had not been installed at this time.



Typical view of the remediation area after one growing season. (August, 2009)

Appendix C – Waste Disposal Manifests

WEST GARFIELD COUNTY LANDFILL NON-HAZARDOUS WASTE MANIFEST

(Manifest is to be given to the landfill operator upon delivery of every load.)

679CRL

GENERATOR

Generator: ENCLAVA OIL & GAS Load #: _____

Address: 2717 CR 215 Site Location: DCU-35 (B1)

PARACHUTE, CO 81635 Site Address: _____

Phone: 970-285-2691 Site Phone: N/A

Description of Waste: SOIL CONTAMINATED W/ DIESEL

Description of Waste Packaging: 10 yd DUMP TRUCK

Volume of Waste Expected: ~ 35 CYD TOTAL

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or by any applicable state law. I further certify that these wastes have been fully and accurately described, classified, and packaged, and are in proper condition for transportation according to applicable local, state, and federal regulations.

Terry Gosney
Generator or Authorized Agent Name (Print)

[Signature]
Signature

Scheduled Delivery Date

TRANSPORTER

Transporter Name: Elder Trucking Driver Name: Maureen Lyon

Address: 1156 CR 352 RFD Truck Number: E6

Phone: 625-4189 Type: Blue Freightliner TANDEM

I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above. The material was transported without incident to the destination named below.

[Signature]
Driver Signature

9-4-08
Delivery Date

W. GARFIELD COUNTY LANDFILL DESTINATION

Transporter Name and Company: ELDER TRUCKING

Disposal Location: GARFIELD COUNTY LANDFILL

I hereby acknowledge receipt of the waste described above as approved for disposal by the following.

Garfield County: (date of acceptance letter) 25 AUGUST 2008

Colorado Department of Health and Environment (date of acceptance letter) _____

JOHN A. GETTY
Name of Authorized Agent (Print)

[Signature]
Signature

4 SEPT 2008
Receipt Date

WEST GARFIELD COUNTY LANDFILL NON-HAZARDOUS WASTE MANIFEST

(Manifest is to be given to the landfill operator upon delivery of every load.)

671 CRL

GENERATOR

Generator: ENCLAVA OIL & GAS Load #: _____

Address: 2717 CR 215 Site Location: DCU-35 (B1)

PARACHUTE, CO 81635 Site Address: _____

Phone: 970.285.2691 Site Phone: N/A


Description of Waste: SOIL CONTAMINATED W/ DIESEL

Description of Waste Packaging: 100 yd DUMP TRUCK

Volume of Waste Expected: ~ 35 CYD TOTAL

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or by any applicable state law. I further certify that these wastes have been fully and accurately described, classified, and packaged, and are in proper condition for transportation according to applicable local, state, and federal regulations.

Terry Gosney
Generator or Authorized Agent Name (Print)


Signature

Scheduled Delivery Date

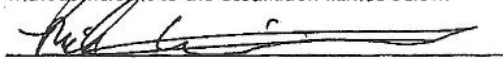
TRANSPORTER

Transporter Name ELDER TRUCKING Driver Name: RICK WEINSTEINER

Address: 1156 CR 352 Truck Number: E-4

Phone: 625-4189 Type: TANDEN

I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above. The material was transported without incident to the destination named below.


Driver Signature

9/4/08
Delivery Date

W. GARFIELD COUNTY LANDFILL DESTINATION

Transporter Name and Company: ELDER TRUCKING

Disposal Location: GARFIELD COUNTY LANDFILL

I hereby acknowledge receipt of the waste described above as approved for disposal by the following.

Garfield County: (date of acceptance letter) 25 AUGUST 2008

Colorado Department of Health and Environment (date of acceptance letter) _____

JOHN A. GETTY
Name of Authorized Agent (Print)


Signature

4 SEPT 2008
Receipt Date

WEST GARFIELD COUNTY LANDFILL NON-HAZARDOUS WASTE MANIFEST

834 ESA

(Manifest is to be given to the landfill operator upon delivery of every load.)

GENERATOR

Generator: ENLAVA OIL & GAS Load #:
Address: 2717 CR 215 Site Location: DCU-35 (B1)
PARACHUTE, CO 81635 Site Address: -
Phone: 970-285-2696 Site Phone: N/A

Description of Waste: SOIL CONTAMINATED W/ DIESEL
Description of Waste Packaging: 10 yd DUMP TRUCK
Volume of Waste Expected: ~ 35 CYD TOTAL

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or by any applicable state law. I further certify that these wastes have been fully and accurately described, classified, and packaged, and are in proper condition for transportation according to applicable local, state, and federal regulations.

Terry Gosney Generator or Authorized Agent Name (Print)
Signature Signature
9-4-08 Scheduled Delivery Date

TRANSPORTER

Transporter Name: ELDER TRUCKING Driver Name: MICHELLE CROCCO
Address: 1156 CANYON RD 352 RIFLE Truck Number: E17
Phone: 970-625-4189 Type: TANDEM

I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above. The material was transported without incident to the destination named below.

Michelle Crocco Driver Signature
9-4-08 Delivery Date

W. GARFIELD COUNTY LANDFILL DESTINATION

Transporter Name and Company: ELDER TRUCKING
Disposal Location: GARFIELD COUNTY LANDFILL

I hereby acknowledge receipt of the waste described above as approved for disposal by the following.

Garfield County: (date of acceptance letter) 25 AUGUST 2008

Colorado Department of Health and Environment: (date of acceptance letter)

JOHN A. GETTY Name of Authorized Agent (Print)
Signature Signature
4 SEPT 2008 Receipt Date

WEST GARFIELD COUNTY LANDFILL NON-HAZARDOUS WASTE MANIFEST

(Manifest is to be given to the landfill operator upon delivery of every load.)

0686 WM2

GENERATOR

Generator: ENLAVA OIL & GAS Load #:
Address: 2717 CR 215 Site Location: DCU-35 (B1)
PARACHUTE, CO 81635 Site Address:
Phone: 970.285.26910 Site Phone: N/A

Description of Waste: SOIL CONTAMINATED W/ DIESEL
Description of Waste Packaging: 10 yd DUMP TRUCK
Volume of Waste Expected: ~ 35 CYD TOTAL

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or by any applicable state law. I further certify that these wastes have been fully and accurately described, classified, and packaged, and are in proper condition for transportation according to applicable local, state, and federal regulations.

Terry Gosney Generator or Authorized Agent Name (Print)
Signature Signature
Scheduled Delivery Date

TRANSPORTER

Transporter Name Elder Trucking Driver Name: Lisa Jung
Address: 1156 CR 352 Rifle Truck Number: E:2
Phone: 625.4189 Type: Tandem

I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above. The material was transported without incident to the destination named below.

Driver Signature Signature
Delivery Date 9.4.08

W. GARFIELD COUNTY LANDFILL DESTINATION

Transporter Name and Company: ELDER TRUCKING
Disposal Location: GARFIELD COUNTY LANDFILL

I hereby acknowledge receipt of the waste described above as approved for disposal by the following.

Garfield County: (date of acceptance letter) 25 AUGUST 2008

Colorado Department of Health and Environment (date of acceptance letter)

JOHN A. GETTY Name of Authorized Agent (Print)
Signature Signature
Receipt Date 4 SEPT 2008

WEST GARFIELD COUNTY LANDFILL NON-HAZARDOUS WASTE MANIFEST

(Manifest is to be given to the landfill operator upon delivery of every load.)

679 CRL

GENERATOR

Generator: ENLINA OIL & GAS Load #: _____
Address: 2717 CR 215 Site Location: DCU-35 (BI)
PARACHUTE, CO 81635 Site Address: -
Phone: 970-285-2696 Site Phone: N/A

Description of Waste: SOL CONTAMINATED W/ DIESEL
Description of Waste Packaging: 10 yd DUMP TRUCK
Volume of Waste Expected: ~ 35 CYD TOTAL

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or by any applicable state law. I further certify that these wastes have been fully and accurately described, classified, and packaged, and are in proper condition for transportation according to applicable local, state, and federal regulations.

Terry Gosney Generator or Authorized Agent Name (Print) [Signature] Signature _____ Scheduled Delivery Date _____

TRANSPORTER

Transporter Name: Elder Trucking Driver Name: Maureen Lyon
Address: 1156 CR 352 Truck Number: E6
Phone: 970-625-4189 Type: Blue 94 Freightliner dump

I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above. The material was transported without incident to the destination named below.

Maureen Lyon Driver Signature _____ 9-5-08 Delivery Date _____

W. GARFIELD COUNTY LANDFILL DESTINATION

Transporter Name and Company: ELDER TRUCKING
Disposal Location: GARFIELD COUNTY LANDFILL

I hereby acknowledge receipt of the waste described above as approved for disposal by the following.

Garfield County: (date of acceptance letter) 25 AUGUST 2008

Colorado Department of Health and Environment (date of acceptance letter) _____

JOHN A. GETTY Name of Authorized Agent (Print) [Signature] Signature _____ 5 SEPT 2008 Receipt Date _____