

April Stegall
Dominion Energy Wexpro
PO Box 458
Rock Springs, WY 82901

Date: July 10, 2018
Request Number: 37402R
Date Received: 06/15/18
Matrix: Soil

REPORT OF ANALYSIS

Lab Number: R4018

Sample ID: Sugar State 2, 100271 Sample #1 6/15/18 10:04

	Result	Units	Method	Date Analyzed	Analyst
Calcium	714	mg/L	USDA 60-2,3/6010	6/27/2018	CB
Magnesium	50.8	mg/L	USDA 60-2,3/6010	6/27/2018	CB
Sodium	92.9	mg/L	USDA 60-2,3/6010	6/27/2018	CB
Sodium Absorption Ratio	0.91	Ratio	Calculated	7/10/2018	TB

* Result is the average of 2 runs.

Quality Control	Reference	Expected	Value	% Recovery
Calcium	ESI QC	20.0	21.0	105
Magnesium	ESI QC	50.0	51.1	102
Sodium	ESI QC	50.0	50.4	101

End of Report
MLE/tab



Monte L. Ellis
Laboratory Manager



WYOMING ANALYTICAL LABORATORIES, INC

1660 Harrison Street
Laramie, WY 82070

www.wal-lab.com
laramie@wal-lab.com

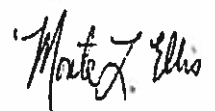
ph: 307-742-7995
fax: 307-721-8956

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DRO Analyzed by ALS Lab in Fort Collins Colorado.
The following pages apply to the samples listed below.

WAL Lab Number	ALS Lab Number	Dominion Sample ID
R4019	1806444-1	Sugar State 2, 116631 Sample #1 6/15/18 10:10



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Tuesday, July 03, 2018

Monte Ellis
Wyoming Analytical Laboratories, Inc.
1660 Harrison St.
Laramie, WY 82070

Re: ALS Workorder: 1806444
Project Name:
Project Number: 37402R

Dear Mr. Ellis:

One soil sample was received from Wyoming Analytical Laboratories, Inc., on 6/20/2018. The sample was scheduled for the following analysis:

Total Extractable Petroleum Hydrocarbons (Diesel)

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental
Katie M. O'Brien
Project Manager

ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
AIHA	214884
Alaska (AK)	UST-086
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
PJ-LA (DoD ELAP/ISO 170250)	95377
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO000782008A
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280



1806444

DRO:

The sample was analyzed following the current revision of SOP 406 generally based on SW-846 Methods 8000C and 8015D. TEPH is a multicomponent mixture and is quantitated by summing the entire carbon range, rather than individual peaks. The carbon range integrated in this test extends from C10 to C28.

All acceptance criteria were met.

ALS -- Fort Collins

SAMPLE SUMMARY REPORT

Client: Wyoming Analytical Laboratories, Inc.

Date: 03-Jul-18

Project: 37402R

Work Order: 1806444

Sample ID: R4019

Lab ID: 1806444-1

Legal Location:

Matrix: SOIL

Collection Date: 6/15/2018 10:10

Percent Moisture: 15.6

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			SW8015M		Prep Date: 6/25/2018	PrepBy: LML
Diesel Range Organics	24	H	5.8	MG/KG	1	6/29/2018 13:09
Surr: O-TERPHENYL	78		49-114	%REC	1	6/29/2018 13:09

ALS -- Fort Collins

SAMPLE SUMMARY REPORT

Client: Wyoming Analytical Laboratories, Inc.
 Project: 37402R
 Sample ID: R4019
 Legal Location:
 Collection Date: 6/15/2018 10:10

Date: 03-Jul-18
 Work Order: 1806444
 Lab ID: 1806444-1
 Matrix: SOIL
 Percent Moisture: 15.6

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
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Explanation of Qualifiers

Radiochemistry:

- "Report Limit" is the MDC
- U or ND - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
- Y2 - Chemical Yield outside default limits.
- W - DER is greater than Warning Limit of 1.42
- * - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
- # - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
- G - Sample density differs by more than 15% of LCS density.
- D - DER is greater than Control Limit
- M - Requested MDC not met.
- LT - Result is less than requested MDC but greater than achieved MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS, Matrix Spike Recovery within control limits.
- N - Matrix Spike Recovery outside control limits
- NC - Not Calculated for duplicate results less than 5 times MDC
- B - Analyte concentration greater than MDC.
- B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

- B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).
- U or ND - Indicates that the compound was analyzed for but not detected.
- E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
- M - Duplicate Injection precision was not met.
- N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
- Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
- * - Duplicate analysis (relative percent difference) not within control limits.
- S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

- U or ND - Indicates that the compound was analyzed for but not detected.
- B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
- E - Analyte concentration exceeds the upper level of the calibration range.
- J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
- A - A tentatively identified compound is a suspected aldol-condensation product.
- X - The analyte was diluted below an accurate quantitation level.
- * - The spike recovery is equal to or outside the control criteria used.
- + - The relative percent difference (RPD) equals or exceeds the control criteria.
- G - A pattern resembling gasoline was detected in this sample.
- D - A pattern resembling diesel was detected in this sample.
- M - A pattern resembling motor oil was detected in this sample.
- C - A pattern resembling crude oil was detected in this sample.
- 4 - A pattern resembling JP-4 was detected in this sample.
- 5 - A pattern resembling JP-5 was detected in this sample.
- H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
- L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
- Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
 - gasoline
 - JP-8
 - diesel
 - mineral spirits
 - motor oil
 - Stoddard solvent
 - bunker C

ALS -- Fort Collins

Client: Wyoming Analytical Laboratories, Inc.
Work Order: 1806444
Project: 37402R

Date: 7/3/2018 11:43:**QC BATCH REPORT**

Batch ID: HC180625-81-1 **Instrument ID:** FUELS-1 **Method:** SW8015M

LCS **Sample ID:** HC180625-81 **Units:** MG/KG **Analysis Date:** 6/29/2018 16:04
Client ID: **Run ID:** HC180629-8A **Prep Date:** 6/25/2018 **DF:** 1

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	72.3	5	62.5		116	81-129				20	
Surr: O-TERPHENYL	10.1		12.5		81	49-114					

MB **Sample ID:** HC180625-81 **Units:** MG/KG **Analysis Date:** 6/29/2018 11:42
Client ID: **Run ID:** HC180629-8A **Prep Date:** 6/25/2018 **DF:** 1

Analyte	Result	ReportLimit									Qual
Diesel Range Organics	ND	5									
Surr: O-TERPHENYL	9.97				80	49-114					

The following samples were analyzed in this batch: 1806444-1

Analytical Service Request & Chain of Custody Record for Environmental Samples

Report to: **APRIL STEGALL**

Company: **DOMINION ENERGY WEXPRO**

Address: **PO Box 468, 8221 WESTGATE DRIVE**

City/ST/Zip: **Rock Springs, WY 82901**

Phone: **307-362-7641** Fax: **307-362-7683**

Email: **april.stegall@dominionenergy.com**

Prefer Results by: **Fax / Email** Hard Copy (circle all that apply)

*Matrix: W-water, S-soil, SL-sludge, O-oil, G-gaseous, X-other

**Preservation: T-4°C, A-acid, F-filtered, N-none, X-other

TAT: **Standard** / Expedite days (subject to fee/availability)

Project: **Super Site 3** PO#

*Matrix: W-water, S-soil, SL-siludge, O-oil, G-gaseous, X-other: _____		
**Preservation: T-4°C, A-acid _____ F-filtered, N-none, X-other: _____		
TAT: <u>Standard</u> / Expedite	days (subject to fee/availability)	
Project: <u>Super Site 2</u>	PO#	
Sample ID	Date/Time	Matrix*
1 100371 Sample #1	10-15 10:04	S
2 1101031 Sample #1	10-15 10:10	S
3 100371 Sample #2		
4 100371 Sample #3		
5 100371 Sample #4		
6		
7		
8		
9		
10		

# of containers	Preservation**	custody seals?
8		
1		
	SVOA, BNA, PAH (circle) by GC-MS 8270	
	VOA, BTEX, GRO (circle) by GC-MS 8260	
✓	BTEX, GRO, GRO Fuel ID (circle) by GC 8015	
	TPH (circle) 418.1, 1664, 8015, 8260	
	F, Cl, NO2, NO3, NO2+NO3, Br, PO4, SO4, NH3 (circle)	
	Alkalinity, pH, cond, TDS, TSS, Turbidity (circle)	
	TOC, BOD, COD, H2S, Specific Gravity (circle)	
✓	522 below	
	As Rec'd, Total, Dissolved, TCLP, WyoLeach. (circle)	
	Group 1, Ba, RCRA, TRI, Cu, Pb, Hg (List Below) (circle)	

24018
24019
37402 R

Received 1st

Print Name: **April Stegall**

Signature: *[Signature]*

Date/Time: **10-15-10 1:17 PM**

Shipped via: **OTC**

Print Name: **Michelle Davis**

Signature: *[Signature]*

Date/Time: **10/15/10 @ 1:31 PM**

Relinquished 1st

Print Name:

Signature:

Date/Time:

Shipped via:

Received 2nd

Print Name:

Signature:

Date/Time:

Shipped via:

Special Instructions / Comments:

KEEP COOL

Metals: soluble boron, total (RCRA, Ni, Cu, Zn), Cr-4, calculate Cr3

Inorganics: (saturated paste) Ca, Mg, Na, SAR, pH, conductivity

only

WAL use only: Record discrepancies in sample condition upon receipt on WAL Doc#228 - SCUR

Please **PRINT** all information

Wyoming Analytical Laboratories, Inc

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