

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Form C-141  
Revised April 3, 2017

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company <b>Elm Ridge Exploration Co LLC</b>	Contact <b>Amy Archuleta</b>
Address <b>PO BOX 156 Bloomfield, NM 87412</b>	Telephone No. <b>505-632-3476 x 201</b>
Facility Name <b>Martin Whittaker 57</b>	Facility Type <b>Oil</b>

Surface Owner <b>Jicarilla Apache Nation</b>	Mineral Owner <b>Jicarilla Apache Nation</b>	API No. <b>30-039-23511</b>
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**LOCATION OF RELEASE**

Unit Letter <b>C</b>	Section <b>5</b>	Township <b>23N</b>	Range <b>05W</b>	Feet from the <b>970'</b>	North/South Line <b>North</b>	Feet from the <b>1850'</b>	East/West Line <b>West</b>	County <b>Rio Arriba</b>
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Latitude 36.259389173 Longitude -107.386866858 NAD83

**NATURE OF RELEASE**

Type of Release <b>Oil</b>	Volume of Release <b>12 bbls</b>	Volume Recovered <b>5 bbl back in tank / 210 yds of soil/oil mixture</b>
Source of Release <b>Production Tank</b>	Date and Hour of Occurrence <b>10-15-17</b>	Date and Hour of Discovery <b>10-16-17 12:00 PM.</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Cory Smith (OCD). JAN- Jason Sandoval, Hobson Sandoval, Guillermo Deherra and Whitney Thomas (BLM) Notified by phone and email.	
By Whom? <b>Amy Archuleta and Richard Graves</b>	Date and Hour <b>10-15-17 at 1PM phone 3:30PM Email</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\* **N/A**

Describe Cause of Problem and Remedial Action Taken.\*

**The Lease Operator allowed the tank to run over the side of the tank. When it was discovered a crew was sent to the location immediately to contain the release. We excavated approximately 200 yards of soil and used a hydrovac truck to remove the oil around sensitive areas. We were able to recover approx. 5 bbls of the oil and put it back into the tank.**

Describe Area Affected and Cleanup Action Taken.\*

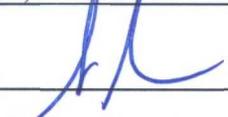
**Most of the oil was contained in the berm. Some of the oil migrated onto location, a backhoe was used to dig out the contaminated soil and the stock piled soil is being removed to the IEI's land farm. We are working with the Jicarilla on their method for the cleanup. The soil samples passed and are attached. We will backfill today 11-7-17.**

**OIL CONS. DIV DIST. 3**

**\*\* Please see the attached documentation that was sent to the Jicarilla Apache Nation.**

**NOV 08 2017**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>Amy Archuleta</b>	Approved by Environmental Specialist: 	
Title: <b>Regulatory Supervisor</b>	Approval Date: <b>11/8/2017</b>	Expiration Date:
E-mail Address: <b>aarchuleta@djrlc.com</b>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <b>11-7-17</b> Phone: <b>505-632-3476 x201</b>		

\* Attach Additional Sheets If Necessary

**NVF1731238911**

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**TABLE 1**  
**SOIL ANALYTICAL RESULTS**  
**MARTIN WHITAKER #57**  
**DJR OPERATING, LLC**

<b>ANALYTE</b>	<b>SS01</b>	<b>SS02</b>	<b>SS03</b>	<b>UNITS</b>
Chloride	<10.4	<10.3	<10.5	mg/kg
Benzene	<0.050	<0.050	<0.050	mg/kg
Toluene	<0.050	<0.050	<0.050	mg/kg
Ethylbenzene	<0.050	<0.050	<0.050	mg/kg
Total Xylenes	<0.150	<0.150	<0.150	mg/kg
Total BTEX	<0.300	<0.300	<0.300	mg/kg
TPH (GRO)	<10.0	<10.0	<10.0	mg/kg
TPH (DRO)	96.9	70.6	21.8	mg/kg
TPH (EXT DRO)	<10.0	<10.0	<10.0	mg/kg

**Notes:**

Samples collected 11/2/17

All samples are 5-point composite samples

BTEX- Benzene, Toluene, Ethylbenzene,  
Total Xylenes

TPH - Total Petroleum Hydrocarbons

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

EXT - Extended

## **Martin Whittaker 57 Release**

30-039-23511

Jicarilla Contract 38

970' FNL X 1850' FWL

Rio Arriba County, NM

36.259381273 -107.386866858

A release of oil occurred on the Martin Whittaker 57. It was found on Monday, October 16, 2017 at approximately 12:00 PM. Jicarilla Oil and Gas, Jicarilla EPO, NMOCD, and BLM were notified within 3 hours of discovery.



### **10-19-17**

Wellhead has been dug out and a berm installed to detour water flow.

Berm around water tank has been built to correct SPCC specs.

Steamed tank and clean up standing oil

Pile of contaminated dirt has roughly 110 yards removed as of today. The soil is contained with an earthen berm.



**Future:**

Remove contaminated soil from tank area and release area on pad

Move tank

Dig approved diversion ditch along west side of location to detour water from pad and remediation area.

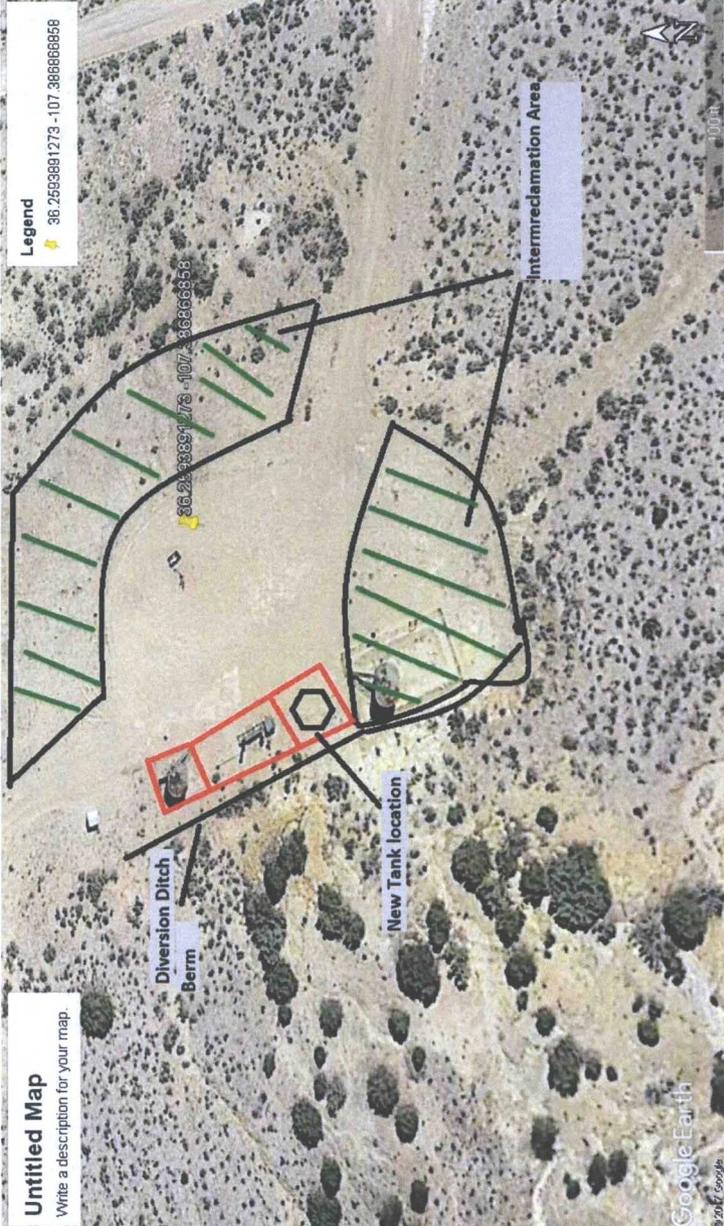
Test soil

Set tank in new location with Vertical and Horizontal containment. Install a metal wall berm and liner. Hydrovac old stains around location.

Meet with Jicarilla Agencies to discuss interim-remediation and diversion ditches for remediation purposes.

J-7 road issue- This road has been bladed to get trucks in and out. Will set up a meeting with proper Jicarilla Agencies to discuss a permanent plan for current issues.

Untitled Map  
Write a description for your map.



Legend

📍 36.2593881273 -107.36866658

Google Earth

© 2014 Google



Samples collected 11/2/17. All samples are 5-point composite samples.

**Legend**

-  Gas Well
-  Soil Sample Location
-  Excavation Area

Location: Sec 5 T23N R5W, Rio Arriba Cty, NM



Mapping by: H. Ertl, 11/6/17  
 Coordinate System:  
 NAD 1983 UTM Zone 13 N

**SOIL SAMPLE LOCATION MAP**  
**MARTIN WHITTAKER #57**  
**DJR OPERATING, LLC**



75 Suttle Street  
Durango, CO 81303  
970.247.4220 Phone  
970.247.4227 Fax  
[www.greenanalytical.com](http://www.greenanalytical.com)

06 November 2017

Amy Archuleta  
DJR Operating  
#20 CR 5060  
Bloomfield, NM 87413  
RE: BTEX,TPH, CI

Enclosed are the results of analyses for samples received by the laboratory on 11/02/17 13:17. The data to follow was performed, in whole or in part, by a subcontract laboratory with an additional report attached.

If you any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads 'Debbie Zufelt'.

Debbie Zufelt  
Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (\*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water.

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8.



DJR Operating #20 CR 5060 Bloomfield NM, 87413	Project: BTEX,TPH, CI Project Name / Number: Martin Whitaker 57 Project Manager: Amy Archuleta	<b>Reported:</b> 11/06/17 15:46
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	1711026-01	Solid	11/02/17 10:05	11/02/17 13:17
SS02	1711026-02	Solid	11/02/17 10:15	11/02/17 13:17
SS03	1711026-03	Solid	11/02/17 10:25	11/02/17 13:17

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SS01

1711026-01 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

% Dry Solids	95.7			%	1	11/03/17	EPA160.3/1684		JDA
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**Soluble (DI Water Extraction)**

Chloride	<10.4	10.4	1.50	mg/kg dry	10	11/06/17	EPA300.0		JDA
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Subcontracted -- Cardinal Laboratories

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	0.002	mg/kg	50	11/06/17	8021B		MS
Toluene*	<0.050	0.050	0.002	mg/kg	50	11/06/17	8021B		MS
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	11/06/17	8021B		MS
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	11/06/17	8021B		MS
Total BTEX	<0.300	0.300	0.018	mg/kg	50	11/06/17	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID)			105 %	72-148		11/06/17	8021B		MS
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0	10.0	3.53	mg/kg	1	11/06/17	8015B		MS
DRO >C10-C28	96.9	10.0	2.04	mg/kg	1	11/06/17	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	2.04	mg/kg	1	11/06/17	8015B		MS

Surrogate: 1-Chlorooctane			92.9 %	28.3-164		11/06/17	8015B		MS
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Surrogate: 1-Chlorooctadecane			100 %	34.7-157		11/06/17	8015B		MS
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DJR Operating #20 CR 5060 Bloomfield NM, 87413	Project: BTEX,TPH, CI Project Name / Number: Martin Whitaker 57 Project Manager: Amy Archuleta	Reported: 11/06/17 15:46
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SS02

1711026-02 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
<b>General Chemistry</b>									
% Dry Solids	96.9			%	1	11/03/17	EPA160.3/1684		JDA
<b>Soluble (DI Water Extraction)</b>									
Chloride	<10.3	10.3	1.48	mg/kg dry	10	11/06/17	EPA300.0		JDA

Subcontracted -- Cardinal Laboratories

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	0.002	mg/kg	50	11/06/17	8021B		MS
Toluene*	<0.050	0.050	0.002	mg/kg	50	11/06/17	8021B		MS
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	11/06/17	8021B		MS
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	11/06/17	8021B		MS
Total BTEX	<0.300	0.300	0.018	mg/kg	50	11/06/17	8021B		MS
Surrogate: 4-Bromofluorobenzene (PID)			104 %	72-148		11/06/17	8021B		MS

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0	10.0	3.53	mg/kg	1	11/06/17	8015B		MS
DRO >C10-C28	70.6	10.0	2.04	mg/kg	1	11/06/17	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	2.04	mg/kg	1	11/06/17	8015B		MS
Surrogate: 1-Chlorooctane			94.4 %	28.3-164		11/06/17	8015B		MS
Surrogate: 1-Chlorooctadecane			104 %	34.7-157		11/06/17	8015B		MS

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DJR Operating #20 CR 5060 Bloomfield NM, 87413	Project: BTEX,TPH, CI Project Name / Number: Martin Whitaker 57 Project Manager: Amy Archuleta	Reported: 11/06/17 15:46
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SS03

1711026-03 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
<b>General Chemistry</b>									
% Dry Solids	95.6			%	1	11/03/17	EPA160.3/1684		JDA
<b>Soluble (DI Water Extraction)</b>									
Chloride	<10.5	10.5	1.50	mg/kg dry	10	11/06/17	EPA300.0		JDA

Subcontracted -- Cardinal Laboratories

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	0.002	mg/kg	50	11/06/17	8021B		MS
Toluene*	<0.050	0.050	0.002	mg/kg	50	11/06/17	8021B		MS
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	11/06/17	8021B		MS
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	11/06/17	8021B		MS
Total BTEX	<0.300	0.300	0.018	mg/kg	50	11/06/17	8021B		MS
Surrogate: 4-Bromofluorobenzene (PID)			104 %	72-148		11/06/17	8021B		MS

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0	10.0	3.53	mg/kg	1	11/06/17	8015B		MS
DRO >C10-C28	21.8	10.0	2.04	mg/kg	1	11/06/17	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	2.04	mg/kg	1	11/06/17	8015B		MS
Surrogate: 1-Chlorooctane			89.4 %	28.3-164		11/06/17	8015B		MS
Surrogate: 1-Chlorooctadecane			103 %	34.7-157		11/06/17	8015B		MS

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DJR Operating #20 CR 5060 Bloomfield NM, 87413	Project: BTEX,TPH, CI Project Name / Number: Martin Whitaker 57 Project Manager: Amy Archuleta	Reported: 11/06/17 15:46
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**General Chemistry - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B711040 - General Prep - Wet Chem**

**Duplicate (B711040-DUP1)**

Source: 1711026-01

Prepared & Analyzed: 11/03/17

% Dry Solids	95.7		%		95.7			0.00	20	
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**Soluble (DI Water Extraction) - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B711022 - General Prep - Wet Chem**

**Blank (B711022-BLK1)**

Prepared: 11/03/17 Analyzed: 11/06/17

Chloride	ND	1.00	mg/kg wet							
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**LCS (B711022-BS1)**

Prepared: 11/03/17 Analyzed: 11/06/17

Chloride	242	10.0	mg/kg wet	250		96.8	85-115			
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**LCS Dup (B711022-BSD1)**

Prepared: 11/03/17 Analyzed: 11/06/17

Chloride	240	10.0	mg/kg wet	250		96.0	85-115	0.797	20	
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**Volatile Organic Compounds by EPA Method 8021 - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 7110306 - Volatiles**

**Blank (7110306-BLK1)**

Prepared: 11/03/17 Analyzed: 11/06/17

Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0250		103	72-148			
Benzene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

**LCS (7110306-BS1)**

Prepared: 11/03/17 Analyzed: 11/06/17

Surrogate: 4-Bromofluorobenzene (PID)	0.0254		mg/kg	0.0250		102	72-148			
Benzene	1.70	0.050	mg/kg	2.00		85.1	79.5-124			
Ethylbenzene	1.80	0.050	mg/kg	2.00		89.8	77.7-125			
Toluene	1.76	0.050	mg/kg	2.00		88.2	75.5-127			
Total Xylenes	5.86	0.150	mg/kg	6.00		97.7	70.9-124			

**LCS Dup (7110306-BSD1)**

Prepared: 11/03/17 Analyzed: 11/06/17

Surrogate: 4-Bromofluorobenzene (PID)	0.0258		mg/kg	0.0250		103	72-148			
Benzene	1.71	0.050	mg/kg	2.00		85.5	79.5-124	0.463	6.5	
Ethylbenzene	1.82	0.050	mg/kg	2.00		91.0	77.7-125	1.32	7.83	
Toluene	1.78	0.050	mg/kg	2.00		89.2	75.5-127	1.10	7.02	
Total Xylenes	5.93	0.150	mg/kg	6.00		98.9	70.9-124	1.19	7.78	

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**Petroleum Hydrocarbons by GC FID - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 7110312 - General Prep - Organics</b>										
<b>Blank (7110312-BLK1)</b>										
Prepared: 11/03/17 Analyzed: 11/06/17										
Surrogate: 1-Chlorooctadecane	54.3		mg/kg	50.0		109	34.7-157			
Surrogate: 1-Chlorooctane	49.2		mg/kg	50.0		98.4	28.3-164			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
<b>LCS (7110312-BS1)</b>										
Prepared: 11/03/17 Analyzed: 11/06/17										
Surrogate: 1-Chlorooctadecane	51.5		mg/kg	50.0		103	34.7-157			
Surrogate: 1-Chlorooctane	48.4		mg/kg	50.0		96.8	28.3-164			
DRO >C10-C28	203	10.0	mg/kg	200		101	81.4-124			
GRO C6-C10	205	10.0	mg/kg	200		102	76.6-119			
Total TPH C6-C28	407	10.0	mg/kg	400		102	79.4-121			
<b>LCS Dup (7110312-BSD1)</b>										
Prepared: 11/03/17 Analyzed: 11/06/17										
Surrogate: 1-Chlorooctadecane	50.4		mg/kg	50.0		101	34.7-157			
Surrogate: 1-Chlorooctane	47.7		mg/kg	50.0		95.3	28.3-164			
DRO >C10-C28	200	10.0	mg/kg	200		99.8	81.4-124	1.56	9.83	
GRO C6-C10	201	10.0	mg/kg	200		101	76.6-119	1.75	7.94	
Total TPH C6-C28	401	10.0	mg/kg	400		100	79.4-121	1.66	8.57	

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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DJR Operating #20 CR 5060 Bloomfield NM, 87413	Project: BTEX,TPH, CI Project Name / Number: Martin Whitaker 57 Project Manager: Amy Archuleta	Reported: 11/06/17 15:46
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**Notes and Definitions**

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis *Results reported on as received basis unless designated as dry.
RPD	Relative Percent Difference
LCS	Laboratory Control Sample (Blank Spike)
RL	Report Limit
MDL	Method Detection Limit

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