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TALON

Remediation Work Plan Devon Energy: Burton Flat Deep Unit #008 |30-015-20959|2RP-3570|

October 17, 2016

Prepared By:

TALON/LPE 408 W. Texas Avenue Artesia, New Mexico 88210

Prepared For:

Devon Energy Corporation 6488 Seven Rivers Hwy. Artesia, NM 88210 Ms. Heather Patterson NMOCD District 2 811 S. 1st Street Artesia, NM 88210

Subject:

Soil Assessment and Work Plan

Devon Energy Production Company, LP

Burton Flat Deep Unit #008 |30-015-20959|2RP-3570|

Dear Ms. Patterson,

Devon Energy Production Company, LP (Devon) has contracted Talon/LPE (Talon) to perform initial spill response, soil sampling and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

Site Information

The Burton Flat Deep Unit #008 is located approximately thirty-three (33) miles southeast of Artesia, New Mexico. The legal location for this facility is Unit Letter O, Section 27, Township 20 South and Range 28 East in Eddy County, New Mexico. More specifically the latitude and longitude are 32.5390663 North and -104.1635818 West. A site plan is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service (NRCS), the soil in this area is made up of Reeves-gypsum land complex with 0 to 3 percent slopes. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

According to the New Mexico Office of the State Engineer the ground water in this area is approximately 70-feet below ground surface (BGS). Therefore the ranking for this site is a 10 based on the following:

Depth to ground water 50-100'
Wellhead Protection Area >1000'
Distance to surface water body >1000'

Based upon the site ranking of **10**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 1,000 mg/kg for TPH and 1,000 mg/kg for total chlorides.

Incident Description and Initial Remedial Actions

On February 25, 2016, a ½-inch ball valve was left open resulting in the release of approximately 10bbls of produced water. The ball valve was closed immediately upon discovery and a vacuum truck was dispatched to the site to recover standing fluids. Approximately 5bbls of fluid were recovered. All of the fluid remained on location. Talon mobilized personnel to conduct soil sampling within the impacted area at sample locations S-1 through S-3. At sample location S-3 only a surface sample was taken because underground lines prohibited further vertical delineation. See the site map in Appendix I for sample locations. The analytical results from the soil sampling event are summarized in the table below.

Laboratory Results

See Appendix IV for complete report of laboratory results.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0		13700		
S-1	1		3840		
S-1	2		6160		
S-1	3		9600		
S-1	4		9460		
S-1	5		600		
S-1	6		90		
S-2	0		18000		
S-2	1	<u>-</u>	3320		
S-2	2		1140		
S-2	3		1020		
S-2	4		285		
S-2	5		206	<u> </u>	
S-2	6		258		
S-3	0		2440	-	

(--) Analyte Not Tested

(ND) Analyte Not Detected

Based upon the site ranking of 10, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 1,000 mg/kg for TPH and 1,000 mg/kg for chlorides.

Proposed Remedial Actions

- The impacted area in the vicinity of sample location S-1 will be excavated to a depth of 5-feet BGS.
- The impacted area in the vicinity of sample location S-2 will be excavated to a depth of 3-feet BGS.
- The impacted area in the vicinity of S-3 will be hand excavated due to the underground lines in this area. Field chloride titrations will be used to guide the depth of the excavation. Once field data indicates that all of the impacted soil above NMOCD's RRAL of 1,000 mg/kg for total chlorides has been achieved, the field data will be forwarded to NMOCD and BLM for approval to backfill this portion of the excavation.
- All of the excavated material will be hauled to a NMOCD approved solid waste disposal facility.
- Upon completion of excavation and receiving permission to backfill, the work area will be backfilled with caliche and contoured to match the surrounding location.

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768

Respectfully submitted,

TALON/LPE

Kimberly M. Wilson

Project Manager

David J. Adkins District Manager

Attachments

Appendix I Site Plan

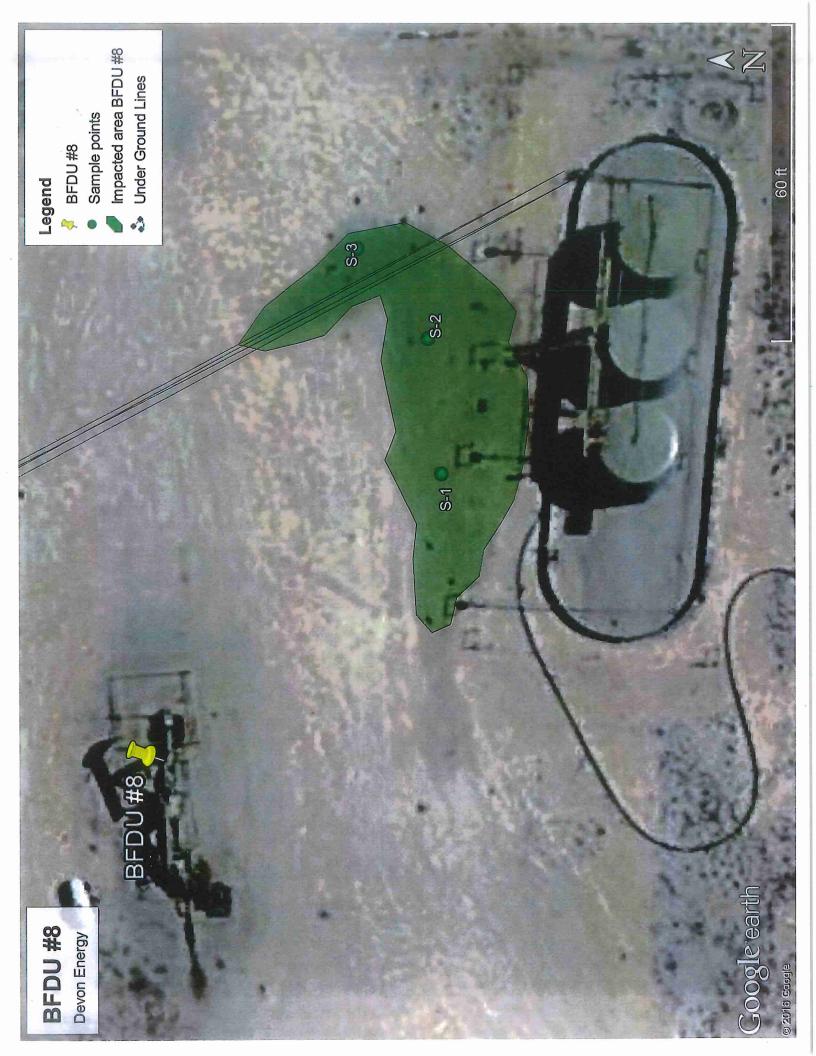
Appendix II Groundwater Data

imberly M Wilso

Appendix III Initial C-141

Appendix IV Laboratory Results

APPENDIX I SITE PLAN



APPENDIX II GROUNDWATER DATA



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned,

C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD

Sub-QQQ

Depth Depth Water Well Water Column Distance

POD Number CP 01589 POD1 Code basin County 64 16 4 Sec Tws Rng CP 1 2 1 35 20S 28E

579674

3600121

873 109

Average Depth to Water:

70 feet

Minimum Depth:

70 feet

Maximum Depth:

70 feet

Record Count: 1

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 578844

Northing (Y): 3600396

Radius: 1000

APPENDIX III INITIAL C-141

District 1 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

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

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

NM OIL CONSERVATION
ARTESIA DISTRICT

Form C-141

FEB 29 2016

Revised August 8, 2011

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

RECEIVED

Release Notification and Corrective Action 6/37 **OPERATOR** Final Report NABILIOI0055123 Initial Report Contact Enrique Campos, Production Foreman Name of Company Devon Energy Production Company Telephone No. 575-513-1933 Address 6488 Seven Rivers Hwy Artesia, NM 88210 Facility Name Burton Flat Deep Unit #8 Facility Type Oil Mineral Owner Federal API No 30-015-20959 Surface Owner Federal LOCATION OF RELEASE East/West Line North/South Line Feet from the County Unit Letter Section Township Range Feet from the 1980 Eddy 28E South East 27 **20S** 660 O Latitude: N 32.5390663 Longitude: W 104,1635818 NATURE OF RELEASE Volume of Release 10 BBLS Volume Recovered 5 BBLS Type of Release Produced water Date and Hour of Discovery Source of Release Date and Hour of Occurrence 2/25/2016 @ 10:50am 2/25/2016 @ 10:50am 1/2 inch ball valve If YES, To Whom? Was Immediate Notice Given? OCD-Mike Bratcher **BLM-Jim Amos** Date and Hour By Whom, Gilbert Sanchez, Assistant Production Foreman OCD- 2/25/2016 @ 2:47pm BLM- 2/25/2016 @ 2:51pm If YES, Volume Impacting the Watercourse Was a Watercourse Reached? ☐ Yes 🛛 No N/A If a Watercourse was Impacted, Describe Fully.* N/A Describe Cause of Problem and Remedial Action Taken.* 1/2 inch ball valve on produced water load line was left open resulting in a release of 10 BBLS of produced water. Ball valve was immediately closed to prevent further release. Describe Area Affected and Cleanup Action Taken.* 10 BBLS of produced water was released from the 1/2 inch ball valve on the water load line on the water tank located on the West side. All 10 BBLS produced water released remained on location. Vacuum truck recovered approximately 5 BBLS of the released produced water. The released produced water flowed in an Easterly direction affecting an area approximately 50 feet by 15 feet. An Environmental Agency will be contacted for remediation. 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. OIL CONSERVATION DIVISION Signature: Dana DelaRosa Approved by Environmental Specialist: Printed Name: Dana DeLaRosa Expiration Date: NA Approval Date: 2 Title: Field Admin Support Conditions of Approval: Remediation per O.C.D. Rules & Guide in Rached E-mail Address: Dana.Delarosa@dvn.com

SUBMIT REMEDIATION PROPOSAL NO

LATER THAN: 33116

* Attach Additional Sheets If Necessary

Phone: 575.746.5594

Date: 2/29/2016

2RP-35TD

APPENDIX IV LABORATORY RESULTS



June 16, 2016

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: BURTON FLAT DEEP #8

Enclosed are the results of analyses for samples received by the laboratory on 06/10/16 13:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keena

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210 (575) 745-8905 Fax To:

Received:

06/10/2016

Sampling Date:

06/07/2016

Reported:

06/16/2016

Sampling Type:

Soil

Project Name:

BURTON FLAT DEEP #8

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

Reporting Limit

16.0

Sampling Condition:

Cool & Intact

Project Number:

700794.190.01

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: S-1 0' (H601278-01)

Chloride, SM4500CI-B

Chloride

Chloride

mg/kg

Analyzed By: AP

Analyte

Result

13700

Result 3840

Analyzed 06/13/2016 Method Blank ND

BS 432

BS

432

432

True Value QC

RPD

3.77

RPD

3.77

Qualifier

Sample ID: S-1 1' (H601278-02)

Chloride, SM4500CI-B

Analyte

Analyte

Analyte

mg/kg

Analyzed By: AP

Method Blank

ND

% Recovery

108

% Recovery

108

True Value QC

400

400

Qualifier

Sample ID: S-1 2' (H601278-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyzed

Analyzed

06/13/2016

Method Blank

ND

ND

BS

True Value QC % Recovery

RPD

3.77

Qualifier

Chloride

Result 6160

Result

9600

16.0 06/13/2016

108

400

3.77

Chloride

Sample ID: S-1 3' (H601278-04)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

06/13/2016

Analyzed

Method Blank

BS 432 % Recovery

108

True Value QC 400

RPD Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celleg & Kreene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210 (575) 745-8905 Fax To:

Received:

Reported:

06/10/2016

06/16/2016

Project Name: Project Number: **BURTON FLAT DEEP #8**

Project Location:

Analyte

Analyte

Analyte

700794.190.01 EDDY COUNTY, NM Sampling Date:

Sampling Type:

Sampling Condition:

Cool & Intact

Soil

Sample Received By:

Jodi Henson

06/07/2016

Sample ID: S-1 4' (H601278-05)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Result

9460

Reporting Limit 16.0

Reporting Limit

Reporting Limit

16.0

Analyzed 06/13/2016 Method Blank ND

BS 432 % Recovery 108

True Value QC 400

RPD 3.77 Qualifier

Sample ID: S-2 0' (H601278-06)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyzed

Method Blank

BS % Recovery

RPD

3.77

Qualifier

Chloride

Chloride

18000

Result

Result

3320

16.0 06/13/2016 ND

432

BS

432

BS

432

108

400

True Value QC

Sample ID: S-2 1' (H601278-07)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyzed

06/13/2016

Method Blank

ND

ND

% Recovery

True Value QC

400

RPD

3.77

Qualifier

Chloride

Sample ID: S-2 2' (H601278-08)

Analyzed By: AP

Chloride, SM4500CI-B Analyte

Result 1140

mg/kg

Reporting Limit 16.0

Analyzed

Method Blank

% Recovery 108

108

True Value QC 400

RPD 3.77

Qualifier

Sample ID: S-2 3' REFUSAL (H601278-09)

Chloride

Analyzed By: AP

Chloride, SM4500CI-B Analyte Chloride

Result

1020

mg/kg

Reporting Limit 16.0

Analyzed 06/13/2016

06/13/2016

Method Blank ND

BS 432 % Recovery 108

True Value QC

400

RPD 3.77 Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Freene



Analytical Results For:

TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

06/10/2016

Sampling Date:

06/07/2016

Reported:

06/16/2016

Sampling Type:

Soil

Project Name:

BURTON FLAT DEEP #8

Sampling Condition:

Cool & Intact

Project Number:

700794.190.01

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: S-3 0' REFUSAL (H601278-10)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	06/13/2016	ND	432	108	400	3.77	

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*=Accredited Analyte

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Celey D. Keine



Notes and Definitions

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS QM-07 ND Analyte NOT DETECTED at or above the reporting limit

Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

Insufficient time to reach temperature.

RPD

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Mariand, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Kimherly Will	N. Texas Ave.	Fax#:	MATRIX PRESERV SAMPLING	MAIRIA FREGUNA COM LANG	O)OMP. RS TER ER	822 31 Re	D.S.3 O' Refused / 1	LEAGE NOTE: Liability and Emerges, Antainal's liability and client's exclusive remedy for any clean; sisting whether based in contend or tork shall be finited to the affects to the affec	Willer Times 12100 Alabor Name	Date Roceived	MSO	Delivered By: (Circle One) Sample Condition CHECKED BY: Cool Intact Cool Intact Cool Intact	Bus - Other: 4,70	١	Project Manager: AA Address: 408 W. City: Artesia Phone #: 575-746 Project Name: 344 Project Location: Sampler Name: FREAD USE ONLY AND USE ONLY Lab L.D. Lab L.D. Lab L.D. A S A S A S A S A S A S A S A	Texas Ave. State: NIM Zip: 882. Fax #: 575-746-890. Foject Owner: NIM Foj	Company: Talon/LPE Company: Talon/LPE Address: City: State: Zip: Phone #: Fax #: Phone #: Fax #: Interprete in contract or tort, shall be inflicted to the stated from the stated from or of the shore and the interpletor, last of last, or less of profits instinct by dien, its excitation whether such that its stated from or of the shore and the stated from the stated from or of the shore and or of the shore a	The policy of the control of the con
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† Cardinal cannot accept verbal changes. Please fax written changes to (675) 383-2326

David Adkins

From:

David Adkins

Sent: To:

Monday, October 17, 2016 12:10 PM 'Megan.Zettlemoyer@pilotthomas.com'

Subject:

sampling in Artesia, NM

Hello Megan,

I'm responding to your request for soil sampling and reporting to NMED for your project here in Artesia. The following estimate is based upon my understanding of your project requirements. Please don't hesitate to let me know if your scope of work is different than what was transmitted to me.

- Geoprobe Rig, one 20' boring, mobilization, etc...\$2,200.00
- Project manager, field sampling, lab delivery of samples and NMED reporting...12 hr@ \$95.00/hr...\$1,140.00
- Lab analysis of sample \$210.00

Estimated project total \$3,550.00

Please let me know if you have any questions. Thank you.

Respectfully,

David J. Adkins

District Manager Artesia Office: 575.746.8768 Direct: 575.616.4022 Cell: 575.441.4835 Fax: 575.746.8905 Emergency: 866.742.0742

Web: www.talonlpe.com



Analytical Report 538316

for Talon LPE

Project Manager: Kimberly Wilson
Burton Flat Deep #8
700794.190.01
11-OCT-16

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400) Xenco-San Antonio: Texas (T104704534) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



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11-OCT-16

Project Manager: Kimberly Wilson

Talon LPE 408 W. Texas St. Artesia, NM 88210

Reference: XENCO Report No(s): 538316

Burton Flat Deep #8

Project Address: Burton Flat Deep #8

Kimberly Wilson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 538316. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 538316 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Knus Koah

Project Manager

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Sample Cross Reference 538316



Talon LPE, Artesia, NM

Burton Flat Deep #8

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S-1	S	09-30-16 00:00	5 ft	538316-001
S-1	S	09-30-16 00:00	6 ft	538316-002
S-1	S	09-30-16 00:00	7 ft	538316-003
S-2	S	09-30-16 00:00	4 ft	538316-004
S-2	S	09-30-16 00:00	5 ft	538316-005
S-2	S	09-30-16 00:00	6 ft	538316-006



CASE NARRATIVE



Client Name: Talon LPE
Project Name: Burton Flat Deep #8

Project ID:

700794.190.01

Work Order Number(s): 538316

Report Date: 11-OCT-16
Date Received: 10/07/2016

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Kimberly Wilson Burton Flat Deep #8

Project Location:

Project Id: Contact:

Certificate of Analysis Summary 538316

Talon LPE, Artesia, NM

Project Name: Burton Flat Deep #8

Date Received in Lab: Fri Oct-07-16 02:45 pm

Report Date: 11-OCT-16 Project Manager: Kelsey Brooks

	I ab Id-	538316-001	538316-002	538316-003	538316-004	538316-005	538316-006
r	Field Id:	S-1	S-1	S-1	S-2	S-2	S-2
Analysis Requestea	Depth:	5- ft	6- ft	7- ft	4- ft	5- ft	6- ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Sep-30-16 00:00					
Inorganic Anions by EPA 300/300.1	Extracted:	Oct-10-16 09:35					
	Analyzed:	Oct-10-16 17:48	Oct-10-16 17:55	Oct-10-16 18:02	Oct-10-16 18:09	Oct-10-16 18:16	Oct-10-16 18:37
	Units/RL:	mg/kg RL					
Chloride		600 50.0	90.9 5.00	215 25.0	285 50.0	206 25.0	258 5.00

Murs Maan

Kelsey Brooks Project Manager

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

This analytical roport, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed introughout this analytical toport represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsible and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.



Flagging Criteria



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- BRL Below Reporting Limit.

MDL Method Detection Limit

RL Reporting Limit

SDL Sample Detection Limit

LOD Limit of Detection

PQL Practical Quantitation Limit

MQL Method Quantitation Limit

LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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BS / BSD Recoveries



Project Name: Burton Flat Deep #8

Work Order #: 538316

Lab Batch ID: 3001741 MNR Analyst:

Date Prepared: 10/10/2016

Batch #: 1

Sample: 714723-1-BKS

Project ID: 700794.190.01

Date Analyzed: 10/10/2016

Matrix: Solid

	Flag	
λ	Control Limits %RPD	20
RECOVERY STUDY	Control Limits %R	90-110
RECOVI	RPD %	5
	Blk. Spk Dup. %R [G]	105
SLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE	Blank Spike Duplicate Result [F]	262
3LANK S	Spike Added [E]	250
SPIKE / I	Blank Spike %R [D]	100
K/BLANK	Blank Spike Result [C]	250
BLAN	Spike Added [B]	250
	Blank Sample Result [A]	<5.00
Units: mg/kg	Inorganic Anions by EPA 300/300.1 Analytes	Chloride

Final 1.000



Form 3 - MS / MSD Recoveries

Project Name: Burton Flat Deep #8

Project ID: 700794.190.01

538316 Work Order #: 3001741 Lab Batch ID:

QC-Sample ID: 538189-001 S

Batch #:

Matrix: Soil

10/10/2016 mg/kg Reporting Units: Date Analyzed:

Date Prepared: 10/10/2016

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY Analyst: MNR

	Spiked Sample	e Spiked	Snike	Duplicate Spited Sample	Spiked	RPD	Control	Control Limits	Flag
Result Added	-		Added	Result [F]	%R	%	%R	%RPD	9
			[3]		[5]				
Chloride 1720 250	50 1980	104	250	1970	100	1	90-110	20	

10/10/2016 mg/kg Date Analyzed:

3001741

Lab Batch ID:

Analyst: MNR

Matrix: Soil

Batch #:

QC-Sample ID: 538316-006 S Date Prepared: 10/10/2016 Reporting Units:

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Incurrents Among hy EDA 200/200 1	Parent		Spiked Sample	Spiked		Duplicate	Spiked		Control	Control	
morganic famous by El & 300/300.1	Sample		Result San	Sample		Spiked Sample	Dup.	RPD	Limits	Limits	Flag
	Result		<u>D</u>	%R	~	Result [F]	%R	%	%R	%RPD	
Analytes	[A]	[B]	i.	[0]	国	Ú	[6]				
Chloride	258	250	501	76	250	493	94	2	90-110	20	

CHAIN OF CUSTOD

Sating the Standard since 1990 Stafford, Texas (281-240-4200) Dallas, Texas (214-902-0300)

Lakeland, Florida (863-646-8526) Tampa, Floridá (813-620-2000)

> Norcross, Georgia (770-449-8800) Konco Quote #)desse, Texas (432-563-1800)

Service Center - San Antonio, Texas (210-509-3334)		XVMM	www.xenco.com	•	TXCHOOL CA	4 200			7	9	00.0	
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Next Day EMERGENCY		Level III Std QC+ Forms	Founis	TRRP Level IV			************					
2 Day EMERGENCY Contract TAT		Lavel 3 (CLP Forms)	(su] UST/RG-411								
3 Day EMERGENCY		TRBP Checklist									,	
							-			-		
TAT Starts Day received by Lab, if received by 3:00 pm		-						FED-EX/UPS: Tracking #	racking #			
SAMPLE CUSTOD	NI OC	IENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURSER DELIVERY	PLES CHANGE PO	SSESSION, INCLUDING	COURTER DEL	IVERY		3	ANNE DE SECRET	N. S.	The State of the S	The state of the s
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Notice: Signature of this document and reinquishment of samples constitutes.	a valid purchase order trom	clent company to Xenucu L	idoratoties and its an	Diates, subcontracture and	designation of the second	o oranica.	ו (פוואפ מיים	A Primeral Co	20.140	100 200	7 F	ر ار



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Talon LPE

Date/ Time Received: 10/07/2016 02:45:00 PM

Work Order #: 538316

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used: R8

Sam	ple Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4.5	
#2 *Shipping container in good condition?	N/A	
#3 *Samples received on ice?	Yes	
#4 *Custody Seal present on shipping container/	cooler? N/A	
#5 *Custody Seals intact on shipping container/ of	ooler? N/A	
#6 Custody Seals intact on sample bottles?	N/A	
#7 *Custody Seals Signed and dated?	N/A	
#8 *Chain of Custody present?	Yes	
#9 Sample instructions complete on Chain of Cus	stody? Yes	
#10 Any missing/extra samples?	No	
#11 Chain of Custody signed when relinquished/	received? Yes	
#12 Chain of Custody agrees with sample label(s)? Yes	
#13 Container label(s) legible and intact?	Yes	
#14 Sample matrix/ properties agree with Chain of	of Custody? Yes	
#15 Samples in proper container/ bottle?	Yes	
#16 Samples properly preserved?	Yes	
#17 Sample container(s) intact?	Yes	
#18 Sufficient sample amount for indicated test(s)? Yes	
#19 All samples received within hold time?	Yes	
#20 Subcontract of sample(s)?	N/A	
#21 VOC samples have zero headspace (less that	an 1/4 inch bubble)? N/A	
#22 <2 for all samples preserved with HNO3,HCl samples for the analysis of HEM or HEM-SGT wh analysts.	., H2SO4? Except for N/A ich are verified by the	
#23 >10 for all samples preserved with NaAsO2+	NaOH, ZnAc+NaOH? N/A	

* Must be completed for after-hours de	livery of samples prior to placing i	n the refrigerator
Analyst:	PH Device/Lot#:	
Checklist completed by:	Jessica Vramer	Date: <u>10/10/2016</u>
Checklist reviewed by:	Mus Hoah Kelsey Brooks	Date: 10/10/2016