

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

Form C-147
Revised April 3, 2017

Recycling Facility Only

Type of action: ☐ Permit ☐ Registration ☐ Modification ☒ Closure ☐ Other (explain) _____

Be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.

Operator: Cimarex Energy Co (For multiple operators attach page with information) OGRID #: 215099
Address: 202 S. Cheyenne Ave Ste 1000 Tulsa, OK 74103
Facility or well name (include API# if associated with a well): Riverbend 12-13 Federal Com 31-35H
OCD Permit Number: 2RF-146 (For new facilities the permit number will be assigned by the district office)
U/L or Qtr/Qtr NW/SW 1 Section 1 Township 25S Range 28E County: Eddy
Surface Owner: ☒ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.

☒ **Recycling Facility:**

Location of recycling facility (if applicable): Latitude 32.15901 Longitude -104.04621 NAD83

Proposed Use: ☐ Drilling* ☒ Completion* ☐ Production* ☐ Plugging *

**The re-use of produced water may NOT be used until fresh water zones are cased and cemented*

☐ Other, requires permit for other uses. Describe use, process, testing, volume of produced water and ensure there will be no adverse impact on groundwater or surface water.

☒ Fluid Storage

☒ Above ground tanks ☐ Activity permitted under 19.15.17 NMAC explain type _____

☐ Activity permitted under 19.15.36 NMAC explain type: _____ ☐ Other explain _____

☐ **Closure Report (required within 60 days of closure completion):** ☐ Recycling Facility Closure Completion Date: _____

3.

Variances:

Justifications and/or demonstrations that the proposed variance will afford reasonable protection against contamination of fresh water, human health, and the environment.

Check the below box only if a variance is requested:

☐ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. If a Variance is requested, include the variance information on a separate page and attach it to the C-147 as part of the application.

If a Variance is requested, it must be approved prior to implementation.

4.

Operator Application Certification:

I hereby certify that the information and attachments submitted with this application are true, accurate and complete to the best of my knowledge and belief.

Name (Print): Mary Barnett Title: Drilling Tech

Signature: Mary Barnett Date: 6/15/20

e-mail address: mbarnett@cimarex.com Telephone: 918-295-1700 or 918-295-1629

5.

OCD Representative Signature: Victoria Venegas Approval/Registration Date: 02/18/2021

Title: Environmental Specialist-A OCD Permit Number: 2RF-146

☐ OCD Conditions _____

☐ Additional OCD Conditions on Attachment _____



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

June 08, 2020

Kelly Miller
Creston Environmental LLC
PO box 1663
Norman, OK 73070

Work Order: **HS20060059**

Laboratory Results for: **Cimarex Riverbend 12-13 FED CM #31H-35H Recycl. FAC.**

Dear Kelly,

ALS Environmental received 2 sample(s) on Jun 02, 2020 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Bernadette A. Fini
Project Manager

Client: Creston Environmental LLC
Project: Cimarex Riverbend 12-13 FED CM #31H-35H Recycl. FAC.
Work Order: HS20060059

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20060059-01	RF-05312020-700-06	Soil		31-May-2020 17:45	02-Jun-2020 09:00	☐
HS20060059-02	Trip Blank	Water		31-May-2020 00:01	02-Jun-2020 09:00	☐

Client: Creston Environmental LLC
Project: Cimarex Riverbend 12-13 FED CM #31H-35H Recycl. FAC.
Work Order: HS20060059

CASE NARRATIVE

GC Semivolatiles by Method SW8015M

Batch ID: 154060

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GC Volatiles by Method SW8015

Batch ID: R362630

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GCMS Volatiles by Method SW8260

Batch ID: R362558,R362641

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW3550

Batch ID: R362580

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E300

Batch ID: 154026

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
-

Client: Creston Environmental LLC
 Project: Cimarex Riverbend 12-13 FED CM #31H-35H Recycl. FAC.
 Sample ID: RF-05312020-700-06
 Collection Date: 31-May-2020 17:45

ANALYTICAL REPORT

WorkOrder:HS20060059
 Lab ID:HS20060059-01
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SW8260		Analyst: WLR		
Benzene	ND		0.0072	mg/Kg-dry	1	03-Jun-2020 15:37
Ethylbenzene	ND		0.0072	mg/Kg-dry	1	03-Jun-2020 15:37
Toluene	ND		0.0072	mg/Kg-dry	1	03-Jun-2020 15:37
Xylenes, Total	ND		0.0072	mg/Kg-dry	1	03-Jun-2020 15:37
Surr: 1,2-Dichloroethane-d4	96.9		70-126	%REC	1	03-Jun-2020 15:37
Surr: 4-Bromofluorobenzene	95.8		70-130	%REC	1	03-Jun-2020 15:37
Surr: Dibromofluoromethane	94.2		70-130	%REC	1	03-Jun-2020 15:37
Surr: Toluene-d8	99.9		70-130	%REC	1	03-Jun-2020 15:37
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015		Analyst: QX		
Gasoline Range Organics	ND		0.063	mg/Kg-dry	1	03-Jun-2020 11:40
Surr: 4-Bromofluorobenzene	118		70-123	%REC	1	03-Jun-2020 11:40
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3541 / 03-Jun-2020 Analyst: PVL		
TPH (Diesel Range)	4.0		2.1	mg/Kg-dry	1	08-Jun-2020 13:19
TPH (Motor Oil Range)	13		4.3	mg/Kg-dry	1	08-Jun-2020 13:19
Surr: 2-Fluorobiphenyl	63.2		60-129	%REC	1	08-Jun-2020 13:19
ANIONS BY E300.0		Method:E300		Prep:E300 / 02-Jun-2020 Analyst: JHD		
Chloride	89.4		6.23	mg/Kg-dry	1	05-Jun-2020 20:12
MOISTURE		Method:SW3550		Analyst: MZD		
Percent Moisture	20.4		0.0100	wt%	1	02-Jun-2020 13:53

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Creston Environmental LLC
Project: Cimarex Riverbend 12-13 FED CM #31H-35H Recycl. FAC.
Sample ID: Trip Blank
Collection Date: 31-May-2020 00:01

ANALYTICAL REPORT

WorkOrder:HS20060059
Lab ID:HS20060059-02
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP		
Benzene	ND		0.0010	mg/L	1	03-Jun-2020 14:40
Ethylbenzene	ND		0.0010	mg/L	1	03-Jun-2020 14:40
Toluene	ND		0.0010	mg/L	1	03-Jun-2020 14:40
Xylenes, Total	ND		0.0010	mg/L	1	03-Jun-2020 14:40
Surr: 1,2-Dichloroethane-d4	90.7		70-126	%REC	1	03-Jun-2020 14:40
Surr: 4-Bromofluorobenzene	102		81-113	%REC	1	03-Jun-2020 14:40
Surr: Dibromofluoromethane	94.4		77-123	%REC	1	03-Jun-2020 14:40
Surr: Toluene-d8	96.9		82-127	%REC	1	03-Jun-2020 14:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: Creston Environmental LLC
Project: Cimarex Riverbend 12-13 FED CM #31H-35H Recycl. FAC.
WorkOrder: HS20060059

Batch ID: 3765 **Start Date:** 03 Jun 2020 07:23 **End Date:** 03 Jun 2020 07:23
Method: VOLATILES BY SW8260C

Sample ID	Container	Sample Wt/Vol	Final Volume	Weight Factor	Container Type
HS20060059-01	1	4.399 (g)	5 (mL)	1.14	TerraCore (5035A)

Batch ID: 3766 **Start Date:** 03 Jun 2020 11:03 **End Date:** 03 Jun 2020 11:03
Method: GASOLINE RANGE ORGANICS BY SW8015C **Prep Code:**

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS20060059-01	1	4.984 (g)	5 (mL)	1	TerraCore (5035A)

Batch ID: 154026 **Start Date:** 02 Jun 2020 09:57 **End Date:** 02 Jun 2020 13:00
Method: 300 ANIONS SOIL PREP **Prep Code:** 300_S_PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS20060059-01		5.0423 (g)	50 (mL)	9.916	

Batch ID: 154060 **Start Date:** 03 Jun 2020 12:30 **End Date:** 03 Jun 2020 15:30
Method: SOPREP: 3541 TPH **Prep Code:** 8015SPR_LL

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS20060059-01	1	30.1 (g)	1 (mL)	0.03322	

Client: Creston Environmental LLC
Project: Cimarex Riverbend 12-13 FED CM #31H-35H Recycl. FAC.
WorkOrder: HS20060059

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 154026 (0)		Test Name : ANIONS BY E300.0			Matrix: Soil	
HS20060059-01	RF-05312020-700-06	31 May 2020 17:45		02 Jun 2020 09:57	05 Jun 2020 20:12	1
Batch ID: 154060 (1)		Test Name : TPH DRO/ORO BY SW8015C			Matrix: Soil	
HS20060059-01	RF-05312020-700-06	31 May 2020 17:45		03 Jun 2020 12:30	08 Jun 2020 13:19	1
Batch ID: R362558 (0)		Test Name : VOLATILES BY SW8260C			Matrix: Soil	
HS20060059-01	RF-05312020-700-06	31 May 2020 17:45			03 Jun 2020 15:37	1
Batch ID: R362580 (0)		Test Name : MOISTURE			Matrix: Soil	
HS20060059-01	RF-05312020-700-06	31 May 2020 17:45			02 Jun 2020 13:53	1
Batch ID: R362630 (0)		Test Name : GASOLINE RANGE ORGANICS BY SW8015C			Matrix: Soil	
HS20060059-01	RF-05312020-700-06	31 May 2020 17:45			03 Jun 2020 11:40	1
Batch ID: R362641 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Water	
HS20060059-02	Trip Blank	31 May 2020 00:01			03 Jun 2020 14:40	1

Client: Creston Environmental LLC
Project: Cimarex Riverbend 12-13 FED CM #31H-35H Recycl. FAC.
WorkOrder: HS20060059

QC BATCH REPORT

Batch ID: 154060 (1)		Instrument: FID-7		Method: TPH DRO/ORO BY SW8015C					
MBLK	Sample ID: MBLK-154060	Units: mg/Kg		Analysis Date: 08-Jun-2020 11:18					
Client ID:	Run ID: FID-7_362805	SeqNo: 5609776		PrepDate: 03-Jun-2020		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
TPH (Diesel Range)	ND	1.7							
TPH (Motor Oil Range)	ND	3.4							
Surr: 2-Fluorobiphenyl	2.352	0.10	3.33	0	70.6	70 - 130			
LCS	Sample ID: LCS-154060	Units: mg/Kg		Analysis Date: 03-Jun-2020 23:05					
Client ID:	Run ID: FID-7_362805	SeqNo: 5609766		PrepDate: 03-Jun-2020		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
TPH (Diesel Range)	25.29	1.7	33.33	0	75.9	70 - 130			
TPH (Motor Oil Range)	24.97	3.4	33.33	0	74.9	70 - 130			
Surr: 2-Fluorobiphenyl	2.382	0.10	3.33	0	71.5	70 - 130			
MS	Sample ID: HS20051140-01MS	Units: mg/Kg		Analysis Date: 03-Jun-2020 23:54					
Client ID:	Run ID: FID-7_362805	SeqNo: 5609768		PrepDate: 03-Jun-2020		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
TPH (Diesel Range)	30.33	1.7	33.23	4.48	77.8	70 - 130			
TPH (Motor Oil Range)	26.27	3.4	33.23	2.969	70.1	70 - 130			
Surr: 2-Fluorobiphenyl	2.621	0.10	3.32	0	78.9	60 - 129			
MSD	Sample ID: HS20051140-01MSD	Units: mg/Kg		Analysis Date: 04-Jun-2020 00:18					
Client ID:	Run ID: FID-7_362805	SeqNo: 5609769		PrepDate: 03-Jun-2020		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
TPH (Diesel Range)	29.65	1.7	33.29	4.48	75.6	70 - 130	30.33	2.28	30
TPH (Motor Oil Range)	30.98	3.4	33.29	2.969	84.2	70 - 130	26.27	16.5	30
Surr: 2-Fluorobiphenyl	2.77	0.10	3.326	0	83.3	60 - 129	2.621	5.54	30

The following samples were analyzed in this batch: HS20060059-01

Client: Creston Environmental LLC
Project: Cimarex Riverbend 12-13 FED CM #31H-35H Recycl. FAC.
WorkOrder: HS20060059

QC BATCH REPORT

Batch ID: R362630 (0)		Instrument: FID-14		Method: GASOLINE RANGE ORGANICS BY SW8015C					
MBLK	Sample ID: MBLK-060320	Units: mg/Kg		Analysis Date: 03-Jun-2020 10:39					
Client ID:	Run ID: FID-14_362630		SeqNo: 5605977		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Gasoline Range Organics ND 0.050

Surr: 4-Bromofluorobenzene 0.11 0.0050 0.1 0 110 75 - 121

LCS	Sample ID: LCS-060320	Units: mg/Kg		Analysis Date: 03-Jun-2020 10:22					
Client ID:	Run ID: FID-14_362630		SeqNo: 5605976		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Gasoline Range Organics 1.118 0.050 1 0 112 72 - 121

Surr: 4-Bromofluorobenzene 0.09328 0.0050 0.1 0 93.3 75 - 121

MS	Sample ID: HS20060102-01MS	Units: mg/Kg		Analysis Date: 03-Jun-2020 12:44					
Client ID:	Run ID: FID-14_362630		SeqNo: 5605983		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Gasoline Range Organics 1.022 0.048 0.96 0 106 70 - 130

Surr: 4-Bromofluorobenzene 0.08653 0.0048 0.096 0 90.1 70 - 123

MSD	Sample ID: HS20060102-01MSD	Units: mg/Kg		Analysis Date: 03-Jun-2020 13:00					
Client ID:	Run ID: FID-14_362630		SeqNo: 5605984		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Gasoline Range Organics 1.009 0.050 1.01 0 99.9 70 - 130 1.022 1.25 30

Surr: 4-Bromofluorobenzene 0.08273 0.0050 0.101 0 81.9 70 - 123 0.08653 4.49 30

The following samples were analyzed in this batch: HS20060059-01

Client: Creston Environmental LLC
Project: Cimarex Riverbend 12-13 FED CM #31H-35H Recycl. FAC.
WorkOrder: HS20060059

QC BATCH REPORT

Batch ID: R362558 (0)		Instrument: VOA5		Method: VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKS1-060320	Units: ug/Kg		Analysis Date: 03-Jun-2020 08:56					
Client ID:	Run ID: VOA5_362558	SeqNo: 5604880		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	ND	5.0							
Ethylbenzene	ND	5.0							
Toluene	ND	5.0							
Xylenes, Total	ND	5.0							
Surr: 1,2-Dichloroethane-d4	47.96	0	50	0	95.9	76 - 125			
Surr: 4-Bromofluorobenzene	48.4	0	50	0	96.8	80 - 120			
Surr: Dibromofluoromethane	47.48	0	50	0	95.0	80 - 119			
Surr: Toluene-d8	50.4	0	50	0	101	81 - 118			

LCS	Sample ID: VLCSS1-060320	Units: ug/Kg		Analysis Date: 03-Jun-2020 08:06					
Client ID:	Run ID: VOA5_362558	SeqNo: 5604879		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	45.91	5.0	50	0	91.8	75 - 124			
Ethylbenzene	45.93	5.0	50	0	91.9	70 - 123			
Toluene	44.97	5.0	50	0	89.9	76 - 122			
Xylenes, Total	137.6	5.0	150	0	91.8	77 - 128			
Surr: 1,2-Dichloroethane-d4	49.47	0	50	0	98.9	76 - 125			
Surr: 4-Bromofluorobenzene	49.45	0	50	0	98.9	80 - 120			
Surr: Dibromofluoromethane	50.06	0	50	0	100	80 - 119			
Surr: Toluene-d8	49.77	0	50	0	99.5	81 - 118			

MS	Sample ID: HS20060091-05MS	Units: ug/Kg		Analysis Date: 03-Jun-2020 12:41					
Client ID:	Run ID: VOA5_362558	SeqNo: 5605381		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	43.72	4.8	48.5	0	90.2	70 - 130			
Ethylbenzene	43.59	4.8	48.5	0	89.9	70 - 130			
Toluene	43.18	4.8	48.5	0	89.0	70 - 130			
Xylenes, Total	131	4.8	145.5	0	90.0	70 - 130			
Surr: 1,2-Dichloroethane-d4	48.99	0	48.5	0	101	70 - 126			
Surr: 4-Bromofluorobenzene	48.02	0	48.5	0	99.0	70 - 130			
Surr: Dibromofluoromethane	48.87	0	48.5	0	101	70 - 130			
Surr: Toluene-d8	47.18	0	48.5	0	97.3	70 - 130			

Client: Creston Environmental LLC
Project: Cimarex Riverbend 12-13 FED CM #31H-35H Recycl. FAC.
WorkOrder: HS20060059

QC BATCH REPORT

Batch ID: R362558 (0)		Instrument: VOA5		Method: VOLATILES BY SW8260C						
MSD		Sample ID: HS20060091-05MSD		Units: ug/Kg		Analysis Date: 03-Jun-2020 13:06				
Client ID:		Run ID: VOA5_362558		SeqNo: 5605382		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	45.02	4.8	48.5	0	92.8	70 - 130	43.72	2.92	30	
Ethylbenzene	44.92	4.8	48.5	0	92.6	70 - 130	43.59	3.01	30	
Toluene	44.39	4.8	48.5	0	91.5	70 - 130	43.18	2.75	30	
Xylenes, Total	135.8	4.8	145.5	0	93.3	70 - 130	131	3.57	30	
Surr: 1,2-Dichloroethane-d4	46.73	0	48.5	0	96.4	70 - 126	48.99	4.71	30	
Surr: 4-Bromofluorobenzene	48.08	0	48.5	0	99.1	70 - 130	48.02	0.119	30	
Surr: Dibromofluoromethane	48.39	0	48.5	0	99.8	70 - 130	48.87	0.973	30	
Surr: Toluene-d8	47.87	0	48.5	0	98.7	70 - 130	47.18	1.45	30	

The following samples were analyzed in this batch: HS20060059-01

Client: Creston Environmental LLC
Project: Cimarex Riverbend 12-13 FED CM #31H-35H Recycl. FAC.
WorkOrder: HS20060059

QC BATCH REPORT

Batch ID: R362641 (0)		Instrument: VOA2		Method: LOW LEVEL VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKW-200603	Units: ug/L		Analysis Date: 03-Jun-2020 12:16					
Client ID:	Run ID: VOA2_362641	SeqNo: 5606388		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	ND	1.0							
Ethylbenzene	ND	1.0							
Toluene	ND	1.0							
Xylenes, Total	ND	1.0							
Surr: 1,2-Dichloroethane-d4	44.98	1.0	50	0	90.0	70 - 123			
Surr: 4-Bromofluorobenzene	50.75	1.0	50	0	102	82 - 115			
Surr: Dibromofluoromethane	47.15	1.0	50	0	94.3	73 - 126			
Surr: Toluene-d8	48.19	1.0	50	0	96.4	81 - 120			

LCS	Sample ID: VLCSW-200603	Units: ug/L		Analysis Date: 03-Jun-2020 11:28					
Client ID:	Run ID: VOA2_362641	SeqNo: 5606387		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	18.57	1.0	20	0	92.9	74 - 120			
Ethylbenzene	19.77	1.0	20	0	98.9	77 - 117			
Toluene	18.91	1.0	20	0	94.5	77 - 118			
Xylenes, Total	62.78	1.0	60	0	105	75 - 122			
Surr: 1,2-Dichloroethane-d4	45.96	1.0	50	0	91.9	70 - 130			
Surr: 4-Bromofluorobenzene	50.03	1.0	50	0	100	82 - 115			
Surr: Dibromofluoromethane	44.85	1.0	50	0	89.7	73 - 126			
Surr: Toluene-d8	47.06	1.0	50	0	94.1	81 - 120			

MS	Sample ID: HS20060098-01MS	Units: ug/L		Analysis Date: 03-Jun-2020 16:39					
Client ID:	Run ID: VOA2_362641	SeqNo: 5606398		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	18.33	1.0	20	0	91.7	70 - 127			
Ethylbenzene	19.69	1.0	20	0	98.5	70 - 124			
Toluene	19.1	1.0	20	0	95.5	70 - 123			
Xylenes, Total	63.24	1.0	60	0	105	70 - 130			
Surr: 1,2-Dichloroethane-d4	46.51	1.0	50	0	93.0	70 - 126			
Surr: 4-Bromofluorobenzene	50.17	1.0	50	0	100	81 - 113			
Surr: Dibromofluoromethane	45.05	1.0	50	0	90.1	77 - 123			
Surr: Toluene-d8	46.88	1.0	50	0	93.8	82 - 127			

Client: Creston Environmental LLC
Project: Cimarex Riverbend 12-13 FED CM #31H-35H Recycl. FAC.
WorkOrder: HS20060059

QC BATCH REPORT

Batch ID: R362641 (0)		Instrument: VOA2		Method: LOW LEVEL VOLATILES BY SW8260C						
MSD		Sample ID: HS20060098-01MSD		Units: ug/L		Analysis Date: 03-Jun-2020 17:03				
Client ID:		Run ID: VOA2_362641		SeqNo: 5606399		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	17.51	1.0	20	0	87.6	70 - 127	18.33	4.56	20	
Ethylbenzene	19.49	1.0	20	0	97.5	70 - 124	19.69	1.01	20	
Toluene	18.6	1.0	20	0	93.0	70 - 123	19.1	2.63	20	
Xylenes, Total	61.69	1.0	60	0	103	70 - 130	63.24	2.48	20	
Surr: 1,2-Dichloroethane-d4	46.54	1.0	50	0	93.1	70 - 126	46.51	0.0556	20	
Surr: 4-Bromofluorobenzene	51.17	1.0	50	0	102	81 - 113	50.17	1.97	20	
Surr: Dibromofluoromethane	45.6	1.0	50	0	91.2	77 - 123	45.05	1.2	20	
Surr: Toluene-d8	47.51	1.0	50	0	95.0	82 - 127	46.88	1.32	20	

The following samples were analyzed in this batch: HS20060059-02

Client: Creston Environmental LLC
Project: Cimarex Riverbend 12-13 FED CM #31H-35H Recycl. FAC.
WorkOrder: HS20060059

QC BATCH REPORT

Batch ID: 154026 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0					
MBLK	Sample ID: MBLK-154026	Units: mg/Kg		Analysis Date: 03-Jun-2020 10:37					
Client ID:	Run ID: ICS-Integrion_362596		SeqNo: 5605492		PrepDate: 02-Jun-2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	ND	5.00							
LCS	Sample ID: LCS-154026	Units: mg/Kg		Analysis Date: 03-Jun-2020 02:10					
Client ID:	Run ID: ICS-Integrion_362596		SeqNo: 5605482		PrepDate: 02-Jun-2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	198.9	5.00	200	0	99.5	90 - 110			
MS	Sample ID: HS20060033-03MS	Units: mg/Kg		Analysis Date: 03-Jun-2020 03:22					
Client ID:	Run ID: ICS-Integrion_362596		SeqNo: 5605486		PrepDate: 02-Jun-2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	100.3	4.94	98.71	3.212	98.4	75 - 125			
MSD	Sample ID: HS20060033-03MSD	Units: mg/Kg		Analysis Date: 03-Jun-2020 03:40					
Client ID:	Run ID: ICS-Integrion_362596		SeqNo: 5605487		PrepDate: 02-Jun-2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	97.45	4.95	99.08	3.212	95.1	75 - 125	100.3	2.91	20
The following samples were analyzed in this batch: HS20060059-01									

Client: Creston Environmental LLC
Project: Cimarex Riverbend 12-13 FED CM #31H-35H Recycl. FAC.
WorkOrder: HS20060059

QC BATCH REPORT

Batch ID: R362580 (0)		Instrument: Balance1		Method: MOISTURE					
DUP	Sample ID: HS20060056-01DUP	Units: wt%		Analysis Date: 02-Jun-2020 13:53					
Client ID:	Run ID: Balance1_362580	SeqNo: 5605242		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Percent Moisture	12.9	0.0100					12.8	0.778	20

The following samples were analyzed in this batch: HS20060059-01

Client:	Creston Environmental LLC	QUALIFIERS, ACRONYMS, UNITS
Project:	Cimarex Riverbend 12-13 FED CM #31H-35H Recycl. FAC.	
WorkOrder:	HS20060059	

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/Kg-dry	Milligrams per Kilogram- Dry weight corrected
mg/L	Milligrams per Liter
wt%	

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	20-030-0	26-Mar-2021
Dept of Defense	ANAB L2231 V009	22-Dec-2021
Florida	E87611-28	30-Jun-2020
Illinois	2000322020-4	09-May-2021
Kansas	E-10352 2019-2020	31-Jul-2020
Louisiana	03087, 2019-2020	30-Jun-2020
Maryland	343, 2019-2020	30-Jun-2020
North Carolina	624-2020	31-Dec-2020
Oklahoma	2019-141	31-Aug-2020
Texas	T104704231-20-26	30-Apr-2021

Client: Creston Environmental LLC
Project: Cimarex Riverbend 12-13 FED CM #31H-35H Recycl. FAC.
Work Order: HS20060059

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS20060059-01	RF-05312020-700-06	Login	6/2/2020 1:21:19 PM	PMG	VOA061
HS20060059-01	RF-05312020-700-06	Login	6/2/2020 1:21:19 PM	PMG	SPA296
HS20060059-01	RF-05312020-700-06	Login	6/2/2020 1:21:19 PM	PMG	J046
HS20060059-01	RF-05312020-700-06	Login	6/2/2020 1:21:19 PM	PMG	J046
HS20060059-02	Trip Blank	Login	6/2/2020 1:21:19 PM	PMG	VOA042

Sample Receipt Checklist

Work Order ID: HS20060059

Date/Time Received: 02-Jun-2020 09:00

Client Name: Creston Environmental LLC Norman OK

Received by: Paresh M. Giga

Completed By: /S/ Paresh M. Giga	02-Jun-2020 12:58	Reviewed by: /S/ Bernadette A. Fini	02-Jun-2020 16:59
eSignature	Date/Time	eSignature	Date/Time

Matrices: **Soil/Water**Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☒	No ☐	Not Present ☐
Chain of custody present?	Yes ☒	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	COC IDs:None
Samplers name present on COC?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Temperature(s)/Thermometer(s):	1.0C U/C IR25		
Cooler(s)/Kit(s):	45130		
Date/Time sample(s) sent to storage:	6/1/2020 13:30		
Water - VOA vials have zero headspace?	Yes ☒	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☒	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☐	N/A ☒
pH adjusted by:			

Login Notes: Terracore Labels Blank
IDs on Ziplock Bags

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

ALS
 10450 Stancliff Rd., Suite 210
 Houston, Texas 77099
 Tel. +1 281 530 5656
 Fax. +1 281 530 5657

Date: 6/1/02
 Name: Denise
 Company: CCA

CUSTODY SEAL

Seal Broken By: [Signature]
 Date: 6/21/02
 Time: 1300
 Name: [Signature]
 Company: [Signature]

ALS
 10450 Stancliff Rd., Suite 210
 Houston, Texas 77099
 Tel. +1 281 530 5656
 Fax. +1 281 530 5657

Date: 6/1/02
 Name: Denise
 Company: CCA

CUSTODY SEAL

Seal Broken By: [Signature]
 Date: 6/21/02
 Time: 1300
 Name: Denise
 Company: CCA

ORIGIN ID: SGRA (405) 209-7204
 KELLY A. MILLER
 CRESTON ENVIRONMENT
 2204 DIANA DR.

SHIP DATE: 6/21/02
 ACTWGT: 1.00 LB HAN
 CAD: 300130/CAFE3211
 DIMS: 26x14x14 IN

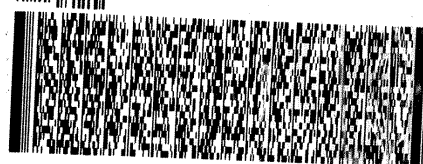
NORMAN, OK 73071
 UNITED STATES US

CLIENT SERVICES
 ALS LABORATORY GROUP
 10450 STANCLIFF ROAD
 SUITE 210
 HOUSTON TX 77099

(281) 530-5656

REF: CIMAREX - SOIL - BO 71928 - BF

RMA: ||| ||| |||



FedEx
Express



FedEx
TRK# 1251 0297 5531
0221

REF: LIMS MOL - SAT
 TUE - 02 JUN 10:30A
 PRIORITY OVERNIGHT

AB SGRA

77099 99
 TX-US
 IAH



FID 5119884 01JUN20 ROWA 56BC1/C700/05A2

19.15.34.14 NMAC: CLOSURE AND SITE RECLAMATION REQUIREMENTS FOR RECYCLING CONTAINMENTS

Table I
Closure Criteria for Recycling Containments

Constituent	Method	Unit	Limit if Depth below bottom of containment to groundwater less than 10,000 mg/L TDS is <u>51 feet - 100 feet</u>	Limit if Depth below bottom of containment to groundwater less than 10,000 mg/L TDS is <u>> 100 feet</u>	RIVERBEND 12-13 FED COM #31-35H RECYCLING FACILITY RF-05312020-700-06 5-Point Composite (Points 1-5) HS20060059
Chloride	EPA 300.0	mg/kg	10,000	20,000	89.4
TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	mg/kg	2,500	2,500	17
GRO+DRO	EPA SW-846 Method 8015M	mg/kg	1,000	1,000	4.0
BTEX	EPA SW-846 Method 8260B	mg/kg	50	50	<0.0072
Benzene	EPA SW-846 Method 8260B	mg/kg	10	10	<0.0072
Percent Moisture	SW3550	%	Not Required		20.4

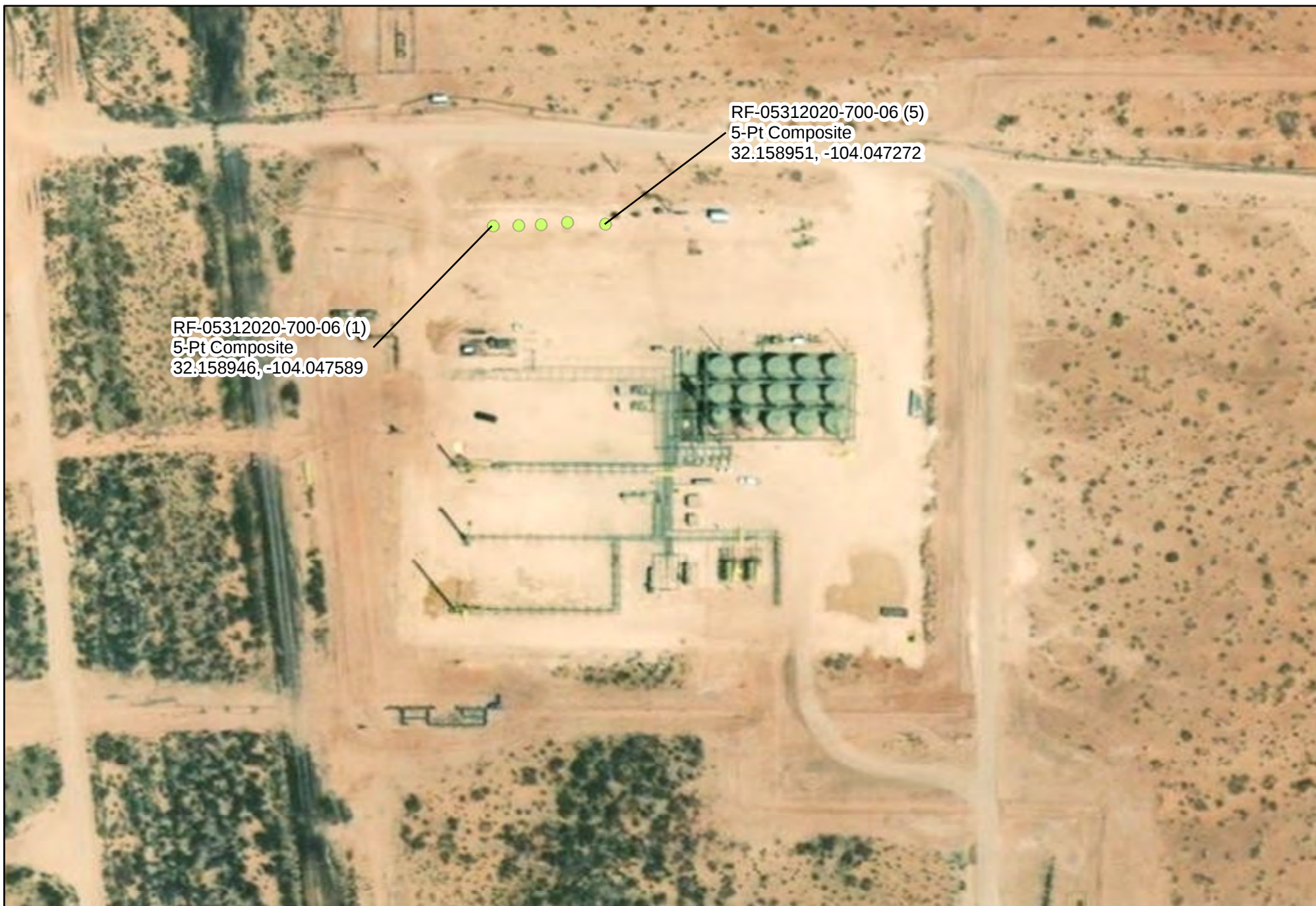
Notes:

< : Analyte not detected at laboratory reporting limit.

J : Result is considered estimated

Concentrations which exceed the limits listed in Table I have been highlighted in yellow.

Please note that the division may require additional delineation upon review of the results and the operator must receive approval before proceeding with closure.



● 5-Pt Composite Sample

RIVERBEND 12-13 FED COM #31-35H RECYCLING FACILITY
COUNTY: EDDY, NM



0 55 110 220 330
Feet

Project: RIVERBEND 12-13 FED COM
#31H-35H RECYCLING FACILITY
Parcel ID: 4-168-145-198-261
RF-05312020-700-06
Area of Sampling - West End Facing East
(Pre-Sample)



2020. 5. 31 17:34

Project: RIVERBEND 12-13 FED COM
#31H-35H RECYCLING FACILITY
Parcel ID: 4-168-145-198-261
RF-05312020-700-06
Area of Sampling - East End Facing West
(Post-Sample)



2020. 5.31 17:49