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TALON LPE

Remediation and Closure Report

Kite 5 I Federal #005
Eddy County, New Mexico
API# 30-015-43873, NRM 2019636591

Prepared For:

Lime Rock Resources II-A, L.P.
1111 Bagby Street, Suite 4600
Houston, TX 77002

Prepared By:

TALON/LPE
408 West Texas Avenue
Artesia, New Mexico 88210

July 14, 2020

Mr. Mike Bratcher
NMOCD District 2
811 South First Street
Artesia, New Mexico, 88210

Ms. Crisha Morgan
Bureau of Land Management
600 East Green Street
Carlsbad, New Mexico 88220

Subject: **Remediation and Closure Report**
Kite 5 I Federal #005
NRM 2019636591
API# 30-015-43873
Eddy County, NM

Dear Mr. Bratcher,

Lime Rock Resources II-A, L.P. has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above-referenced location. The results of our site assessment and remediation activities are contained herein.

Site Information

The Kite 5 I Federal #005 is located approximately 10 miles east of Artesia, New Mexico. The legal location for this release is Unit Letter I, Section 05, Township 18 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.77432906 North and -104.2949801 West. Site plans are presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Gypsum land. The referenced soil data is attached in Appendix II. The local surface and shallow geology is Guadalupian in age and is comprised of residuum weathered from gypsum. Drainage courses in this area are typically dry. The project site is situated in a high Karst potential area (Figure 3, Appendix I).

Groundwater and Site Characterization

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 140-feet below ground surface (BGS). The United States Geological Survey (USGS) web site indicates that the nearest reported well site is 0.94 miles from the location and depth to groundwater is 84.54-feet BGS, last recorded on January 1, 2015. See Appendix II for the referenced groundwater data.

If a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to the groundwater in Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29, NMAC.

Approximate Depth to Groundwater	**140 Feet/BGS**
☐Yes ☒No	Within 300 feet of any continuously flowing watercourse or any other significant watercourse
☐Yes ☒No	Within 200 feet of any lakebed, sinkhole, or a playa lake
☐Yes ☒No	Within 300 feet from an occupied permanent residence, school, hospital, institution, or church
☐Yes ☒No	Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes
☐Yes ☒No	Within 1000 feet of any freshwater well or spring
☐Yes ☒No	Within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
☐Yes ☒No	Within 300 feet of a wetland
☐Yes ☒No	Within the area overlying a subsurface mine
☒Yes ☐No	Within an unstable area
☐Yes ☒No	Within a 100-year floodplain

This incident occurred in an area with a depth to groundwater of greater than 100-feet BGS. However, the site is in a high Karst area. Therefore, the closure criteria for this site is as follows:

Table I Closure Criteria for Soils Impacted by a Release			
Minimum depth below the release to ground water less than 10,000 mg/l TDS.	Constituent	Method	Limit
≤ 50 feet	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Incident Description

On June 24, 2020, 3 barrels (bbls) of crude oil (1 of which were recovered) and 20 barrels of produced water (17 of which were recovered) were released when the rod rotator cable came loose pulling a 1" line out of the well head due to extremely windy conditions. Due to the high possibility of rain and proximity to a dry watercourse, an emergency one call was made to push up visibly contaminated material to minimize environmental impacts. The release was entirely contained on the bermed caliche well pad. An initial C-141 was submitted on July 01, 2020 and is provided in Appendix III. The NMOCD assigned incident number **NRM 2019636591** to this release.

Site Assessment

On June 26, 2020, Talon mobilized personnel to begin site assessment and sampling activities of the impacted area. Grab soil samples were obtained utilizing a hand auger. Analytical results from our initial sampling event are presented on the following data table. Initial site assessment sampling locations are illustrated on the site map (Figure 1, Appendix I), and photographs of impacted area are attached in Appendix IV. Complete laboratory reports can be found in Appendix V.

Table 1 : *Initial Soil Sample Analysis*

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	DRO + GRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
S-1	6/26/2020	1'	ND	ND	ND	ND	ND	0	950
		2'	ND	ND	ND	ND	ND	0	1300
S-2	6/26/2020	0-0.5' R	ND	ND	ND	ND	ND	0	660
S-3	6/26/2020	1'	ND	ND	ND	ND	ND	0	3800
		2'	ND	ND	ND	ND	ND	0	1100
S-4	6/26/2020	0-0.5'	ND	ND	ND	ND	ND	0	230
		0.75' R	ND	ND	ND	ND	ND	0	75
S-5	6/26/2020	0.5'	ND	ND	ND	ND	ND	0	ND
S-6	6/26/2020	0.5'	ND	ND	ND	ND	ND	0	ND
S-7	6/26/2020	0.5'	ND	ND	ND	ND	ND	0	ND
S-8	6/26/2020	0.5'	ND	ND	ND	61	ND	61	1100
S-9	6/26/2020	0.5'	ND	ND	ND	84	ND	84	1100
S-10	6/26/2020	0.5'	ND	ND	ND	580	320	900	1500

ND = Not Detected R = Refusal w/Hand Auger

Based on the results of our site assessment and upon client authorization, excavation activities of the impacted area commenced on June 29, 2020. Confirmation samples were collected to confirm that NMOCD closure criteria had been met, the results of which can be found in the following data table. Confirmation sample locations and excavation dimensions can be on Figure 2 in Appendix I. Complete laboratory reports are attached in Appendix V.

Table 2: *Confirmation Soil Sample Analysis*

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg	Field Titrations
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	DRO + GRO combined = 100 mg/kg			100 mg/kg	600 mg/kg	Chlorides
S.SW	7/6/2020	1.5'	NT	NT	NT	NT	NT	0	324	319.05
W.SW	7/6/2020	1.5'	NT	NT	NT	NT	NT	0	325	141.8
S-1A	7/6/2020	2.5'	NT	NT	NT	NT	NT	0	293	283.6
S-3A	7/6/2020	2.5'	NT	NT	NT	NT	NT	0	304	283.6
S-2A	7/6/2020	1.5'	NT	NT	NT	NT	NT	0	363	319.05
S-12	7/6/2020	1.5'	NT	NT	NT	NT	NT	0	264	248.15
S-11	7/6/2020	1.5'	NT	NT	NT	NT	NT	0	121	141.8
S-8A	7/7/2020	1.5'	NT	NT	NT	NT	NT	0	238	226.88
E.SW	7/7/2020	1.5'	NT	NT	NT	NT	NT	0	271	226.88
S-9A	7/7/2020	1.5'	NT	NT	NT	NT	NT	0	256	191.43
S-10A	7/7/2020	1.5'	ND	ND	ND	ND	ND	0	282	389.95
N.SW	7/7/2020	1.5'	NT	NT	NT	NT	NT	0	313	354.5

NT = Not Tested ND = Analyte Not Detected SW = Side Wall

Remedial Actions

- Immediately following the release, the impacted area southeast of the pump jack was scraped to remove the saturated material.
- Based on our soil sampling results, the impacted areas in the vicinity of sample points S-1 and S-3 were excavated to a total depth of 2.5-feet BGS.
- The impacted areas near sample points S-2, S-8, S-9, S-10, S-11, and S-12 were excavated to 1.5-feet BGS. Excavation areas and depths are shown on Figure 2 in Appendix I.
- Composite confirmation soil samples were obtained from the sidewalls and bottoms of the excavated areas to verify that all contaminants above NMOCD closure criteria had been removed. The results are shown on Table 2 and the corresponding lab reports may be found in Appendix V.
- All the excavated material (649.6 tons) was transported to Lea Land, LLC, a NMOCD approved solid waste disposal facility.
- The excavated areas on the well pad were backfilled with new caliche, machine compacted and contoured to match the surrounding location.
- The Final C-141 formally documenting the remedial actions is attached in Appendix III.

Closure

Based on the site assessment, remedial actions and confirmation sampling results completed for this project, on behalf of Lime Rock Resources II-A, L.P., we respectfully request that no further actions be required and that closure of this incident be granted.

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

Michael Collier
Environmental Tech II

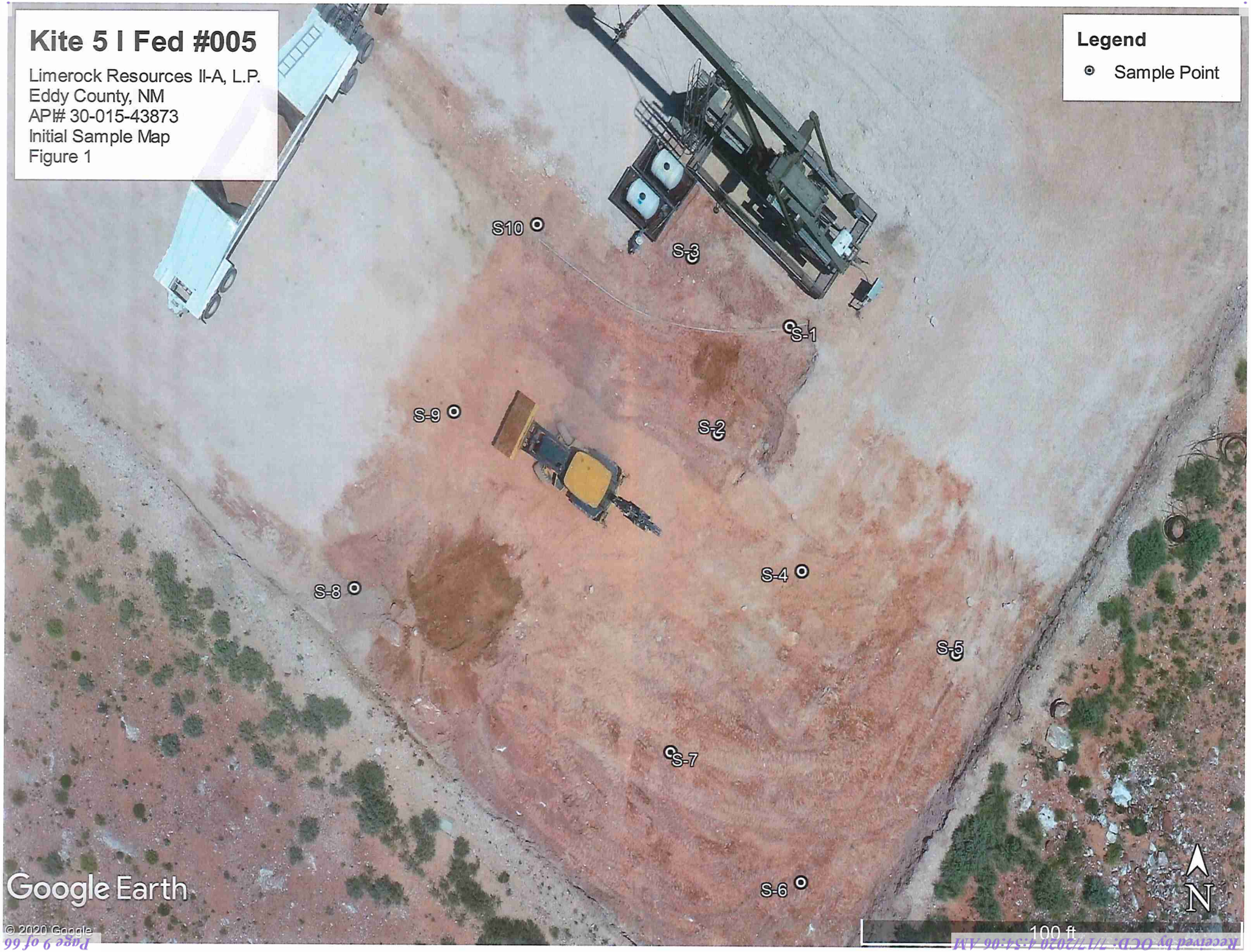
David J. Adkins
Regional Manager

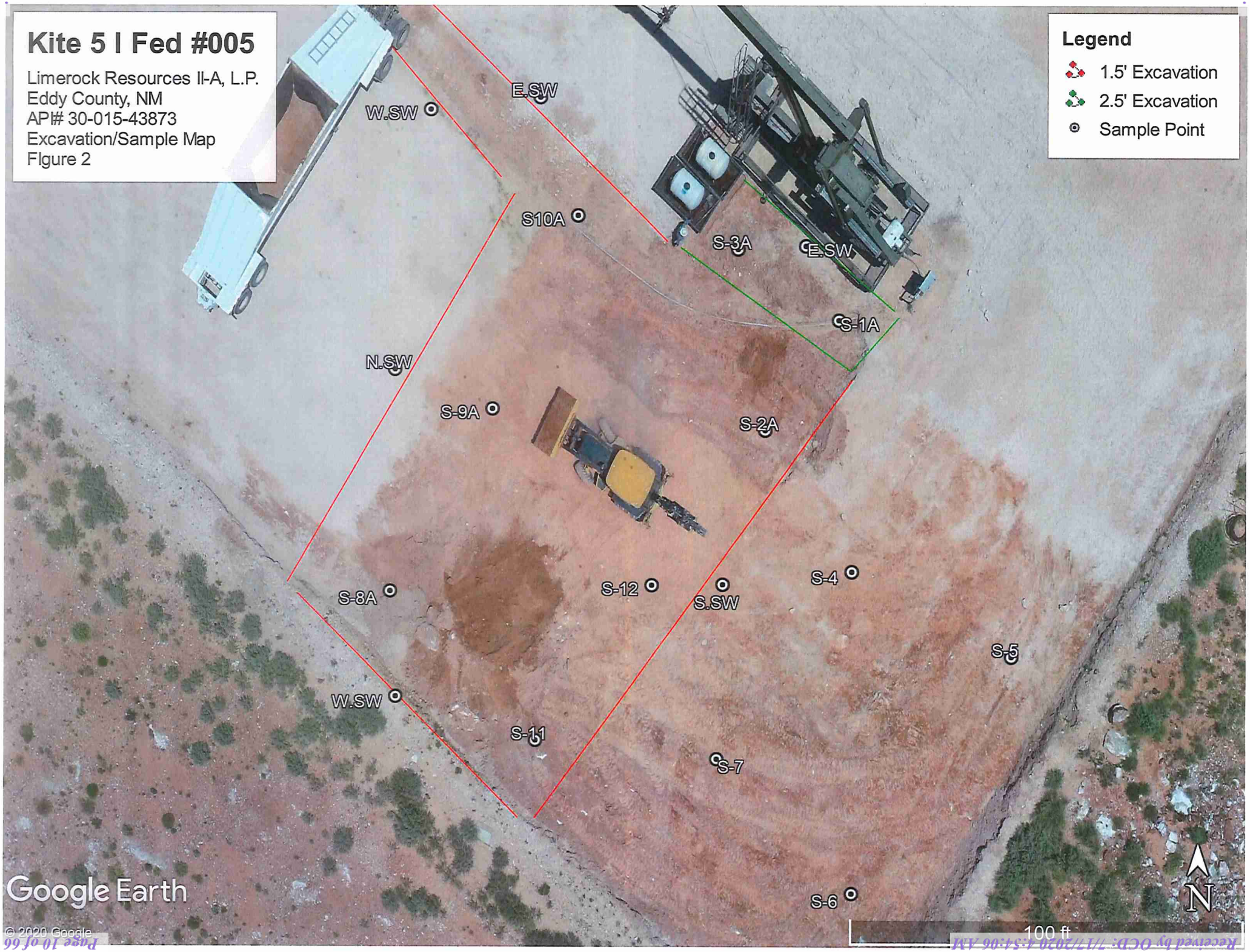
Attachments:

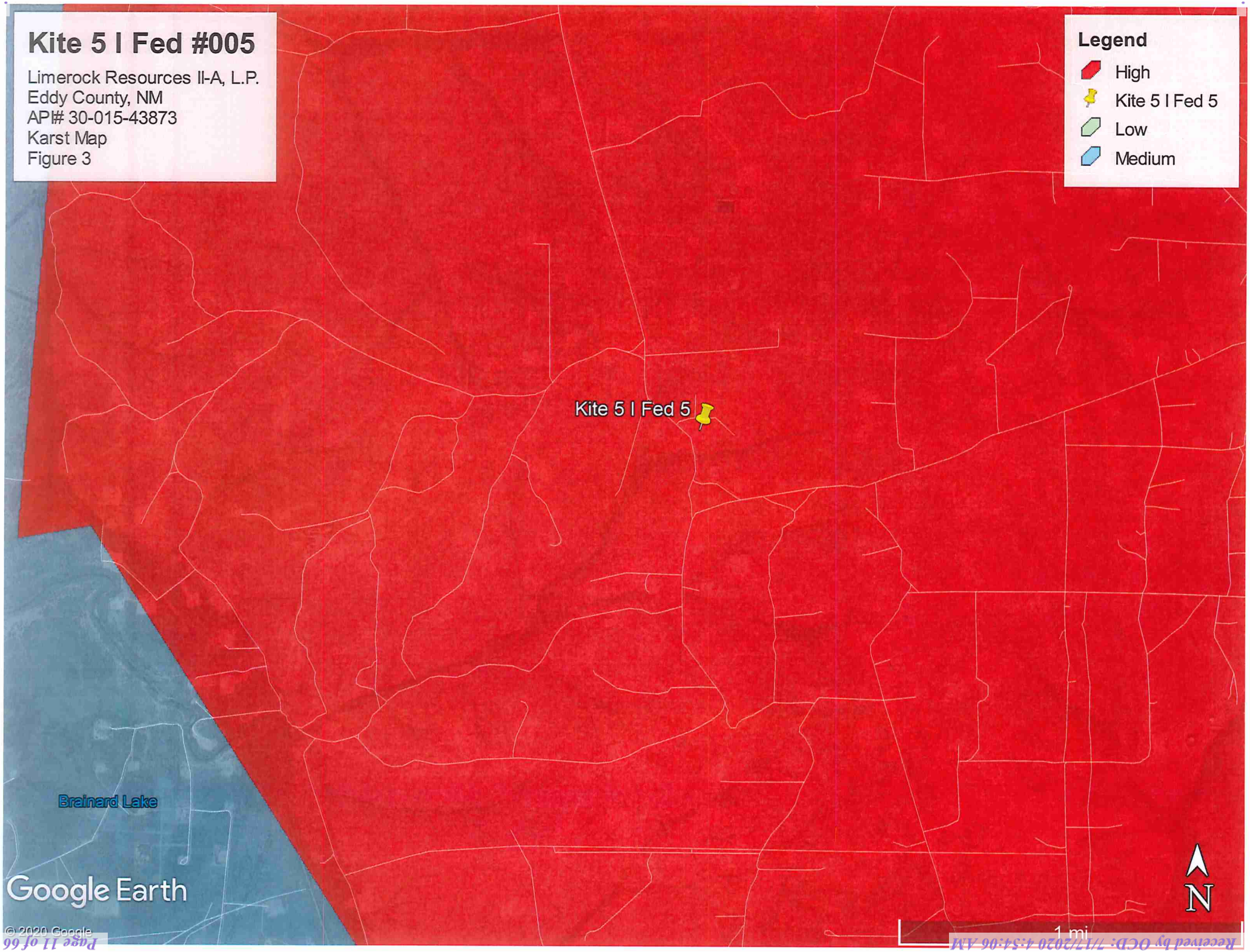
Appendix I Site Maps
Appendix II Groundwater Data, Soil Survey & FEMA Flood Map
Appendix III Initial and Final C-141
Appendix IV Photographic Documentation
Appendix V Laboratory Data

APPENDIX I

SITE PLANS

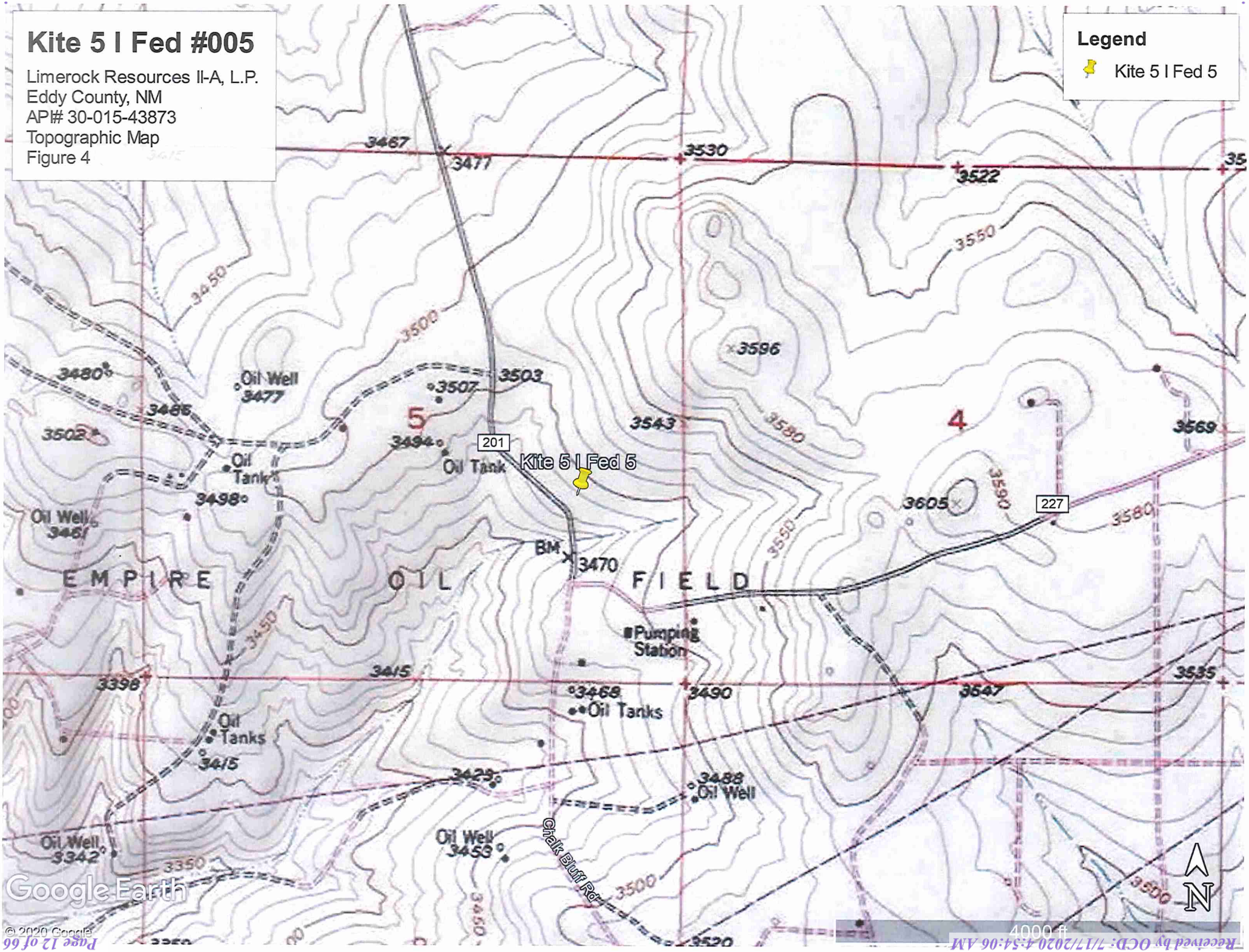


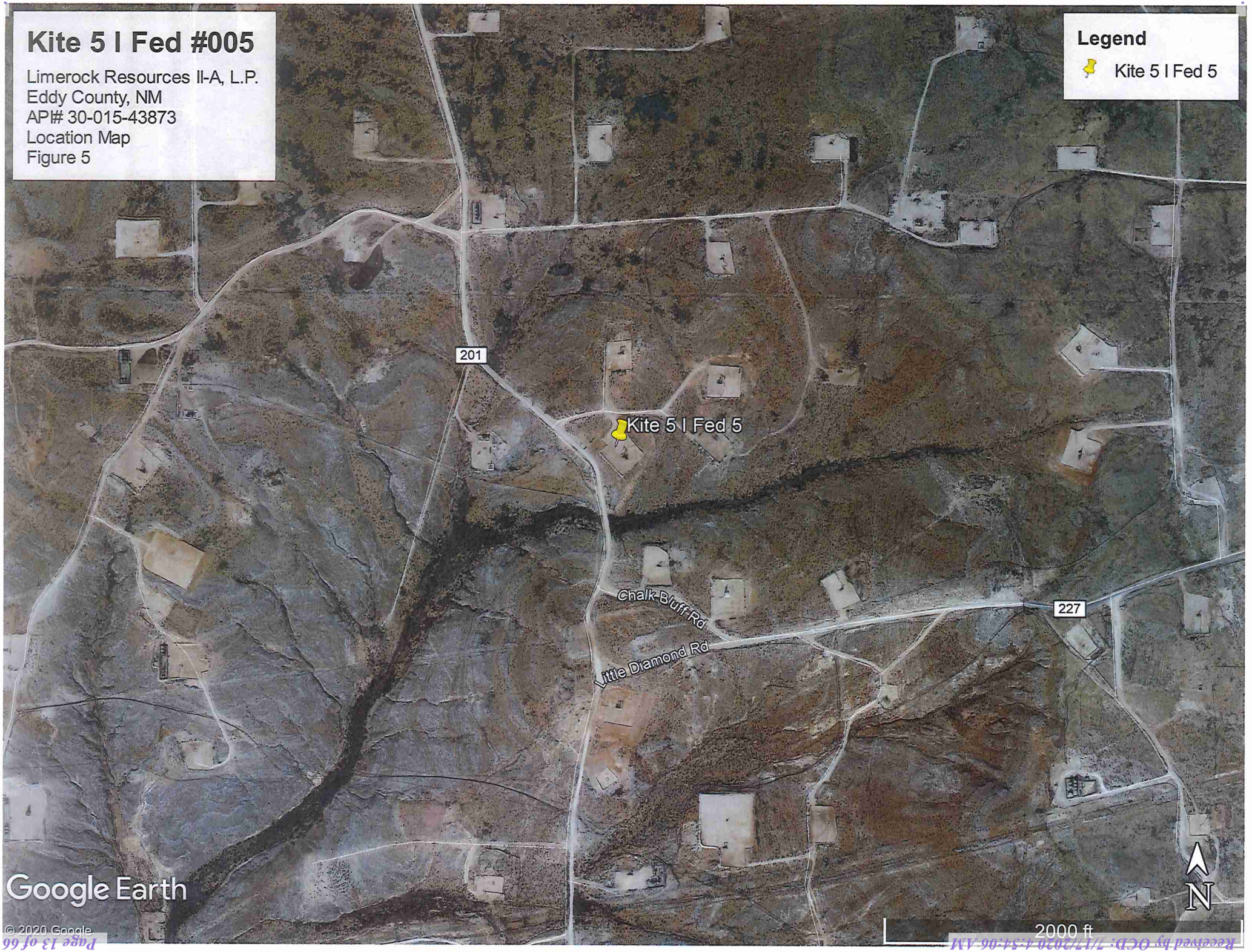




Kite 5 I Fed #005

Limerock Resources II-A, L.P.
Eddy County, NM
API# 30-015-43873
Topographic Map
Figure 4





APPENDIX II

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE

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 Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Twp	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
RA 03661		RA	ED	3	2	3	32	17S	27E	565186	3628038*	1765	330	140	190

Average Depth to Water: **140 feet**

Minimum Depth: **140 feet**

Maximum Depth: **140 feet**

Record Count: 1

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 566055.34 **Northing (Y):** 3626501.94 **Radius:** 3000

***UTM location was derived from PLSS - see Help**

USGS science for a changing world

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 324715104180201

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 324715104180201 17S.27E.32.32000

Eddy County, New Mexico
Latitude 32°47'15", Longitude 104°18'02" NAD27
Land-surface elevation 3,454 feet above NAVD88
The depth of the well is 400 feet below land surface.
This well is completed in the San Andres Limestone (313SADR) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source measur
1960-12-29		D	83.93			2		U		
1962-01-03		D	87.64			2		U		
1963-01-07		D	89.52			2		U		
1963-07-23		D	91.18			2		U		
1963-08-13		D	89.42			2		U		
1963-09-04		D	90.17			2		U		
1963-11-22		D	91.78			2		U		
1964-01-09		D	92.68			2		U		
1979-08-15		D	78.43			2		U		
1983-04-14		D	77.33			2		U		
1989-01-31		D	78.97			2		U		
1990-03-08		D	81.69			2		S		
1994-02-24		D	88.80			2		S		
1999-01-19		D	91.52			2		S	USGS	
2003-01-24		D	40.39			2		S	USGS	
2004-02-27		D	92.44			2		S	USGS	
2006-01-30	13:30 MST	m	83.74			2		S	NM001	
2007-02-09	08:05 MST	m	87.95			2		S	NM001	
2008-01-23	12:15 MST	m	88.34			2		S	NM001	

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measur
2009-01-09	14:30 MST	m	89.10			2	S		NM001	
2010-01-26	08:45 MST	m	88.85			2	S		NM001	
2011-01-25	10:20 MST	m	90.12			2	S		NM001	
2013-01-24	12:50 MST	m	96.73			2	S		NM001	
2015-01-21	12:20 MST	m	84.54			2	S		NM001	

Explanation

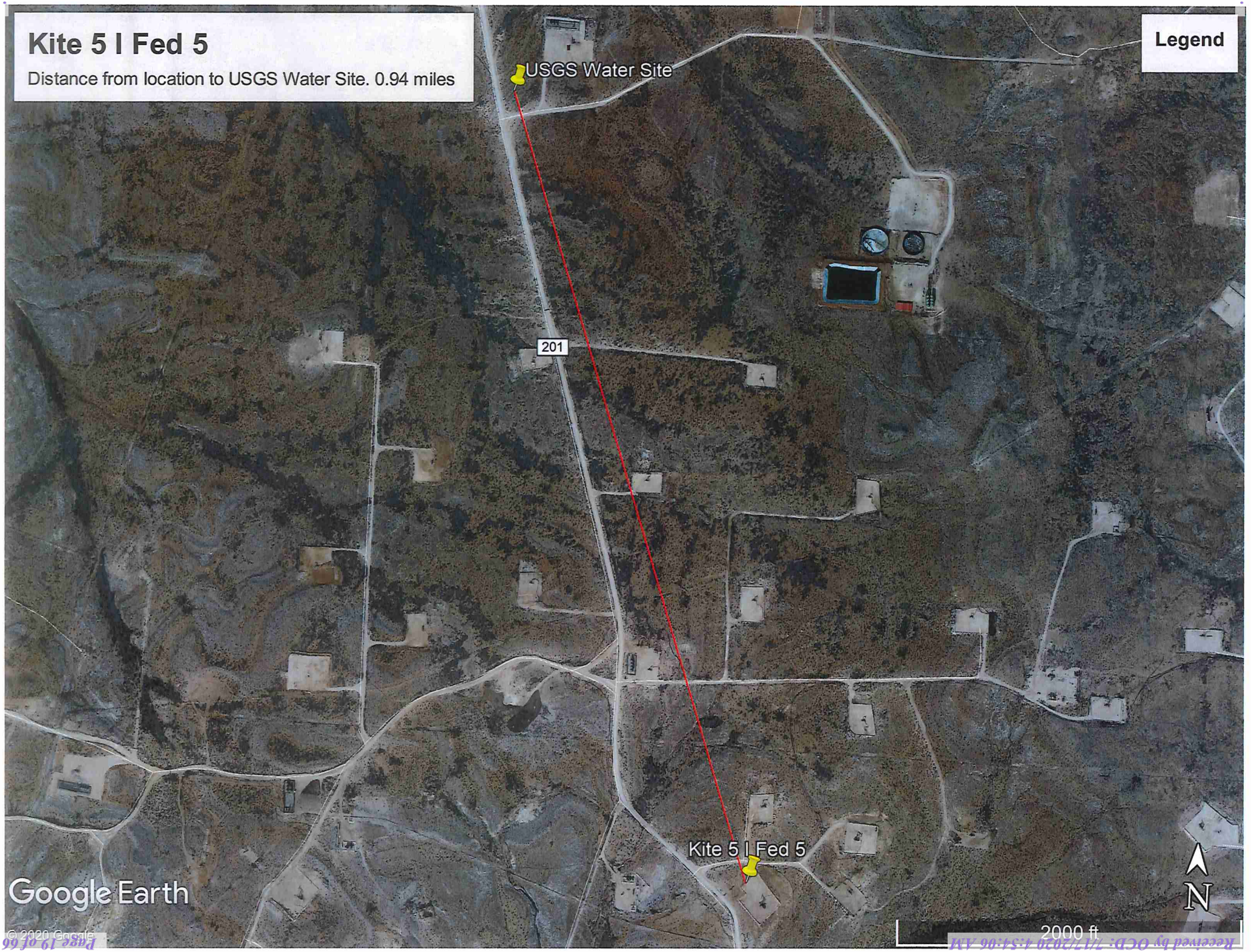
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Measuring agency	NM001	New Mexico State Engineers Office
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	A	Reported by another government agency (do not use "A" if reported by owner, use "O").
Source of measurement	S	Measured by personnel of reporting agency.
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility Plug-Ins FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2020-07-13 13:22:51 EDT
0.9 0.26 nadww01



Eddy Area, New Mexico

GA—Gypsum land

Map Unit Setting

National map unit symbol: 1w4f
Elevation: 1,250 to 5,000 feet
Mean annual precipitation: 10 to 25 inches
Mean annual air temperature: 57 to 66 degrees F
Frost-free period: 190 to 225 days
Farmland classification: Not prime farmland

Map Unit Composition

Gypsum land: 98 percent
Minor components: 2 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Gypsum Land

Setting

Landform: Hills, plains, ridges
Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope
Landform position (three-dimensional): Crest, nose slope, side slope, head slope
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Residuum weathered from gypsum

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8s
Hydric soil rating: No

Minor Components

Reeves

Percent of map unit: 1 percent
Ecological site: Salty Bottomland (R042XC033NM)
Hydric soil rating: No

Cottonwood

Percent of map unit: 1 percent
Ecological site: Salty Bottomland (R042XC033NM)
Hydric soil rating: No

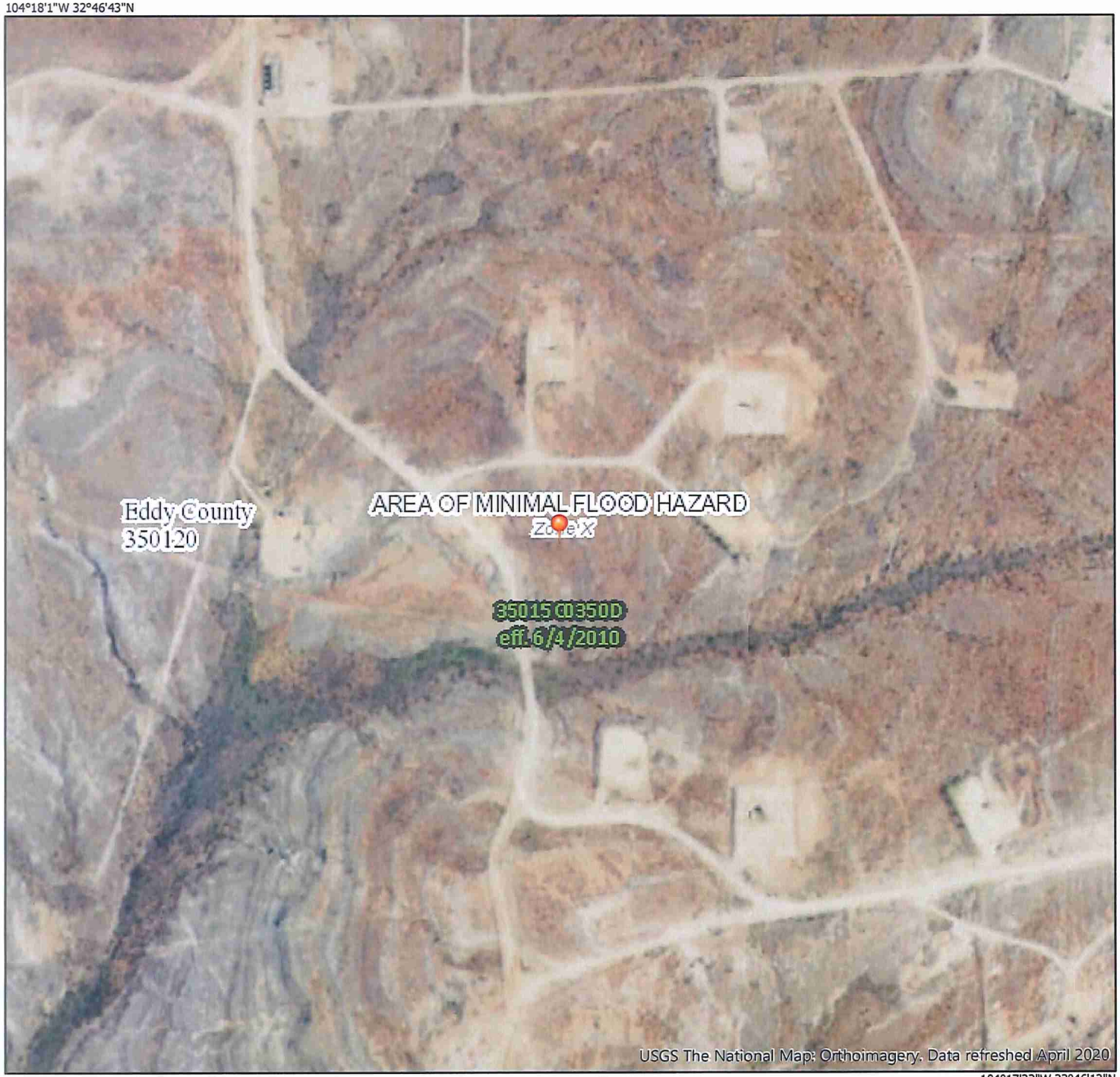
Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 16, Jun 8, 2020

National Flood Hazard Layer FIRMette

FEMA

104°18'1"W 32°46'43"N



104°17'23"W 32°46'12"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainag areas of less than one square mile *Zone*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represe an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/7/2020 at 5:45 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

APPENDIX III

INITIAL C-141

FINAL C-141

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-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Lime Rock Resources	OGRID 277558
Contact Name: Michael Barrett	Contact Telephone 575-365-9724
Contact email: mbarrett@limerockresources.com	Incident # *(assigned by OCD)*
Contact mailing address: 1111 Bagby St., Suite 4600 Houston, TX	77002

Location of Release Source

Latitude 32.77432906 Longitude -104.2949801
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Kite 5 I Fed 5	Site Type: Oil Well
Date Release Discovered: 06-24-2020	API# 30-015-43873

Unit Letter	Section	Township	Range	County
I	05	18S	27E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:*)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls) 3	Volume Recovered (bbls) 1
☒ Produced Water	Volume Released (bbls): 20	Volume Recovered (bbls): 17
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
Due to extreme windy conditions, the rod rotator cable came loose pulling a 1" line out of the well head causing a release of 23 barrels of mixed fluid to be released onto the well pad.
Talon/LPE was retained to do site assessment and remediation activities.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.

☒ The impacted area has been secured to protect human health and the environment.

☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

The release was contained on the packed caliche bermed location. The well was shut in and all standing fluids were recovered utilizing a vac truck. The visibly contaminated material was excavated with a backhoe and disposed of at Lea Land, LLC.

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: Michael Barrett Title: Production Superintendent

Signature: _____ Date: 7-1-20

email: mbarrett@limerockresources.com Telephone: 575-365-9724

OCD Only

Received by: _____ Date: _____

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	NRM2019636591
District RP	
Facility ID	30-015-43873
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Mike Barrett Title: Production Superintendent

Signature: _____ Date: 7/15/2020

email: mbarrett@limerockresources.com Telephone: 575-365-9724

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

APPENDIX IV

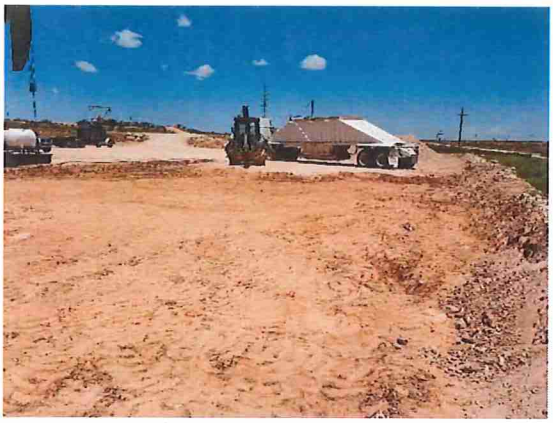
PHOTOGRAPHIC DOCUMENTATION

Lime Rock Resources- Kite 5 I Federal #005

PHOTO DOCUMENTATION

Aerial of Initial Scrape

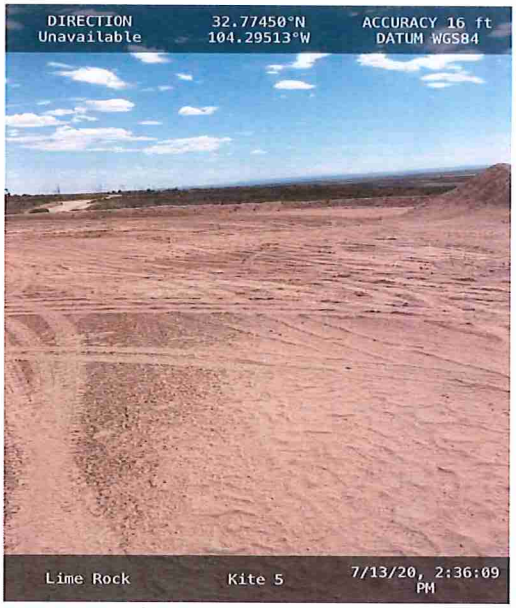
Looking Northeast



Looking North

Looking Northwest

Back to grade



Back to grade

APPENDIX V

LABORATORY DATA

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

July 02, 2020

David Adkins
Talon Artesia
408 West Texas Ave
Artesia, NM 88210
TEL:
FAX:

RE: Kite 5 I Fed 5 OrderNo.: 2006F13

Dear David Adkins:

Hall Environmental Analysis Laboratory received 13 sample(s) on 6/30/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2006F13**
Date Reported: **7/2/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Kite 5 I Fed 5
Lab ID: 2006F13-001
Matrix: MEOH (SOIL)
Client Sample ID: S-1 1'
Collection Date: 6/26/2020 12:21:00 PM
Received Date: 6/30/2020 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	950	60		mg/Kg	20	6/30/2020 11:15:24 AM	53417
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/30/2020 12:03:45 PM	53415
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/30/2020 12:03:45 PM	53415
Surr: DNOP	96.9	55.1-146		%Rec	1	6/30/2020 12:03:45 PM	53415
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	7/1/2020 5:12:26 PM	G70053
Surr: BFB	104	66.6-105		%Rec	1	7/1/2020 5:12:26 PM	G70053
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	6/30/2020 10:16:27 AM	B70022
Toluene	ND	0.041		mg/Kg	1	6/30/2020 10:16:27 AM	B70022
Ethylbenzene	ND	0.041		mg/Kg	1	6/30/2020 10:16:27 AM	B70022
Xylenes, Total	ND	0.081		mg/Kg	1	6/30/2020 10:16:27 AM	B70022
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	6/30/2020 10:16:27 AM	B70022

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2006F13**
Date Reported: **7/2/2020**

CLIENT: Talon Artesia
Project: Kite 5 I Fed 5
Lab ID: 2006F13-002
Matrix: MEOH (SOIL)
Client Sample ID: S-1 2'
Collection Date: 6/26/2020 12:24:00 PM
Received Date: 6/30/2020 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	1300	60		mg/Kg	20	6/30/2020 11:27:44 AM	53417
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/30/2020 12:27:52 PM	53415
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/30/2020 12:27:52 PM	53415
Surr: DNOP	91.8	55.1-146		%Rec	1	6/30/2020 12:27:52 PM	53415
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	7/1/2020 5:36:14 PM	G70053
Surr: BFB	102	66.6-105		%Rec	1	7/1/2020 5:36:14 PM	G70053
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.021		mg/Kg	1	6/30/2020 10:39:55 AM	B70022
Toluene	ND	0.042		mg/Kg	1	6/30/2020 10:39:55 AM	B70022
Ethylbenzene	ND	0.042		mg/Kg	1	6/30/2020 10:39:55 AM	B70022
Xylenes, Total	ND	0.084		mg/Kg	1	6/30/2020 10:39:55 AM	B70022
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	6/30/2020 10:39:55 AM	B70022

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2006F13**
Date Reported: **7/2/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Kite 5 I Fed 5
Lab ID: 2006F13-003

Client Sample ID: S-2 0.5' R
Collection Date: 6/26/2020 12:30:00 PM
Matrix: MEOH (SOIL)
Received Date: 6/30/2020 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	660	60		mg/Kg	20	6/30/2020 11:40:05 AM	53417
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/30/2020 12:51:58 PM	53415
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/30/2020 12:51:58 PM	53415
Surr: DNOP	101	55.1-146		%Rec	1	6/30/2020 12:51:58 PM	53415
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	7/1/2020 6:00:04 PM	G70053
Surr: BFB	103	66.6-105		%Rec	1	7/1/2020 6:00:04 PM	G70053
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.021		mg/Kg	1	6/30/2020 11:03:30 AM	B70022
Toluene	ND	0.042		mg/Kg	1	6/30/2020 11:03:30 AM	B70022
Ethylbenzene	ND	0.042		mg/Kg	1	6/30/2020 11:03:30 AM	B70022
Xylenes, Total	ND	0.085		mg/Kg	1	6/30/2020 11:03:30 AM	B70022
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	6/30/2020 11:03:30 AM	B70022

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2006F13**
Date Reported: **7/2/2020**

CLIENT: Talon Artesia
Project: Kite 5 I Fed 5
Lab ID: 2006F13-004
Matrix: MEOH (SOIL)
Client Sample ID: S-3 1'
Collection Date: 6/26/2020 12:48:00 PM
Received Date: 6/30/2020 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	3800	150		mg/Kg	50	6/30/2020 2:20:34 PM	53417
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/30/2020 1:16:06 PM	53415
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/30/2020 1:16:06 PM	53415
Surr: DNOP	98.9	55.1-146		%Rec	1	6/30/2020 1:16:06 PM	53415
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	7/1/2020 6:24:00 PM	G70053
Surr: BFB	103	66.6-105		%Rec	1	7/1/2020 6:24:00 PM	G70053
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	6/30/2020 11:26:59 AM	B70022
Toluene	ND	0.039		mg/Kg	1	6/30/2020 11:26:59 AM	B70022
Ethylbenzene	ND	0.039		mg/Kg	1	6/30/2020 11:26:59 AM	B70022
Xylenes, Total	ND	0.078		mg/Kg	1	6/30/2020 11:26:59 AM	B70022
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	6/30/2020 11:26:59 AM	B70022

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2006F13**
Date Reported: **7/2/2020**

CLIENT: Talon Artesia
Project: Kite 5 I Fed 5
Lab ID: 2006F13-005
Matrix: MEOH (SOIL)
Client Sample ID: S-3 2'
Collection Date: 6/26/2020 12:51:00 PM
Received Date: 6/30/2020 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	1100	60		mg/Kg	20	6/30/2020 12:04:46 PM	53417
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/30/2020 1:40:13 PM	53415
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/30/2020 1:40:13 PM	53415
Surr: DNOP	96.1	55.1-146		%Rec	1	6/30/2020 1:40:13 PM	53415
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	7/1/2020 7:58:59 PM	A70053
Surr: BFB	105	66.6-105	S	%Rec	1	7/1/2020 7:58:59 PM	A70053
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	6/30/2020 11:50:27 AM	B70022
Toluene	ND	0.036		mg/Kg	1	6/30/2020 11:50:27 AM	B70022
Ethylbenzene	ND	0.036		mg/Kg	1	6/30/2020 11:50:27 AM	B70022
Xylenes, Total	ND	0.072		mg/Kg	1	6/30/2020 11:50:27 AM	B70022
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	6/30/2020 11:50:27 AM	B70022

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2006F13**
Date Reported: **7/2/2020**

CLIENT: Talon Artesia
Project: Kite 5 I Fed 5
Lab ID: 2006F13-006
Matrix: MEOH (SOIL)
Client Sample ID: S-4 0-0.5'
Collection Date: 6/26/2020 12:53:00 PM
Received Date: 6/30/2020 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	230	60		mg/Kg	20	6/30/2020 12:41:47 PM	53417
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/30/2020 2:04:26 PM	53415
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/30/2020 2:04:26 PM	53415
Surr: DNOP	98.3	55.1-146		%Rec	1	6/30/2020 2:04:26 PM	53415
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	7/1/2020 8:22:40 PM	A70053
Surr: BFB	102	66.6-105		%Rec	1	7/1/2020 8:22:40 PM	A70053
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	6/30/2020 12:14:02 PM	B70022
Toluene	ND	0.038		mg/Kg	1	6/30/2020 12:14:02 PM	B70022
Ethylbenzene	ND	0.038		mg/Kg	1	6/30/2020 12:14:02 PM	B70022
Xylenes, Total	ND	0.076		mg/Kg	1	6/30/2020 12:14:02 PM	B70022
Surr: 4-Bromofluorobenzene	110	80-120		%Rec	1	6/30/2020 12:14:02 PM	B70022

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2006F13**
Date Reported: **7/2/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Kite 5 I Fed 5
Lab ID: 2006F13-007

Client Sample ID: S-4 0.75'R
Collection Date: 6/26/2020 12:56:00 PM
Matrix: MEOH (SOIL)
Received Date: 6/30/2020 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	75	60		mg/Kg	20	6/30/2020 12:54:08 PM	53417
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/30/2020 2:28:44 PM	53415
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/30/2020 2:28:44 PM	53415
Surr: DNOP	100	55.1-146		%Rec	1	6/30/2020 2:28:44 PM	53415
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	7/1/2020 8:46:21 PM	A70053
Surr: BFB	104	66.6-105		%Rec	1	7/1/2020 8:46:21 PM	A70053
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	6/30/2020 12:37:37 PM	B70022
Toluene	ND	0.040		mg/Kg	1	6/30/2020 12:37:37 PM	B70022
Ethylbenzene	ND	0.040		mg/Kg	1	6/30/2020 12:37:37 PM	B70022
Xylenes, Total	ND	0.079		mg/Kg	1	6/30/2020 12:37:37 PM	B70022
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	6/30/2020 12:37:37 PM	B70022

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2006F13**
Date Reported: **7/2/2020**

CLIENT: Talon Artesia
Project: Kite 5 I Fed 5
Lab ID: 2006F13-008
Matrix: MEOH (SOIL)
Client Sample ID: S-5 0.5'
Collection Date: 6/26/2020 1:01:00 PM
Received Date: 6/30/2020 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	6/30/2020 1:06:29 PM	53417
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/30/2020 11:51:04 AM	53415
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/30/2020 11:51:04 AM	53415
Surr: DNOP	108	55.1-146		%Rec	1	6/30/2020 11:51:04 AM	53415
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	7/1/2020 9:09:55 PM	A70053
Surr: BFB	103	66.6-105		%Rec	1	7/1/2020 9:09:55 PM	A70053
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	6/30/2020 1:01:11 PM	B70022
Toluene	ND	0.040		mg/Kg	1	6/30/2020 1:01:11 PM	B70022
Ethylbenzene	ND	0.040		mg/Kg	1	6/30/2020 1:01:11 PM	B70022
Xylenes, Total	ND	0.080		mg/Kg	1	6/30/2020 1:01:11 PM	B70022
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	6/30/2020 1:01:11 PM	B70022

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Kite 5 I Fed 5
Lab ID: 2006F13-009
Matrix: MEOH (SOIL)
Client Sample ID: S-6 0.5'
Collection Date: 6/26/2020 1:04:00 PM
Received Date: 6/30/2020 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	6/30/2020 1:18:50 PM	53417
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	6/30/2020 12:15:11 PM	53415
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	6/30/2020 12:15:11 PM	53415
Surr: DNOP	106	55.1-146		%Rec	1	6/30/2020 12:15:11 PM	53415
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	7/1/2020 9:33:30 PM	A70053
Surr: BFB	102	66.6-105		%Rec	1	7/1/2020 9:33:30 PM	A70053
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	6/30/2020 1:24:44 PM	B70022
Toluene	ND	0.039		mg/Kg	1	6/30/2020 1:24:44 PM	B70022
Ethylbenzene	ND	0.039		mg/Kg	1	6/30/2020 1:24:44 PM	B70022
Xylenes, Total	ND	0.078		mg/Kg	1	6/30/2020 1:24:44 PM	B70022
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	6/30/2020 1:24:44 PM	B70022

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2006F13**
Date Reported: **7/2/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Kite 5 I Fed 5
Lab ID: 2006F13-010

Client Sample ID: S-7 0.5'
Collection Date: 6/26/2020 1:10:00 PM
Matrix: MEOH (SOIL) **Received Date:** 6/30/2020 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	6/30/2020 1:31:11 PM	53417
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/30/2020 12:39:22 PM	53415
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/30/2020 12:39:22 PM	53415
Surr: DNOP	106	55.1-146		%Rec	1	6/30/2020 12:39:22 PM	53415
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/1/2020 9:56:58 PM	A70053
Surr: BFB	99.8	66.6-105		%Rec	1	7/1/2020 9:56:58 PM	A70053
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/30/2020 1:48:14 PM	B70022
Toluene	ND	0.049		mg/Kg	1	6/30/2020 1:48:14 PM	B70022
Ethylbenzene	ND	0.049		mg/Kg	1	6/30/2020 1:48:14 PM	B70022
Xylenes, Total	ND	0.097		mg/Kg	1	6/30/2020 1:48:14 PM	B70022
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	6/30/2020 1:48:14 PM	B70022

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2006F13**
Date Reported: **7/2/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Kite 5 I Fed 5
Lab ID: 2006F13-011

Client Sample ID: S-8 0.5'
Collection Date: 6/26/2020 1:14:00 PM
Matrix: MEOH (SOIL) **Received Date:** 6/30/2020 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	1100	60		mg/Kg	20	6/30/2020 1:43:30 PM	53417
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	61	9.5		mg/Kg	1	6/30/2020 1:03:30 PM	53415
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/30/2020 1:03:30 PM	53415
Surr: DNOP	106	55.1-146		%Rec	1	6/30/2020 1:03:30 PM	53415
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	19		mg/Kg	5	7/1/2020 4:24:54 PM	G70053
Surr: BFB	102	66.6-105		%Rec	5	7/1/2020 4:24:54 PM	G70053
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.097		mg/Kg	5	7/1/2020 4:24:54 PM	B70053
Toluene	ND	0.19		mg/Kg	5	7/1/2020 4:24:54 PM	B70053
Ethylbenzene	ND	0.19		mg/Kg	5	7/1/2020 4:24:54 PM	B70053
Xylenes, Total	ND	0.39		mg/Kg	5	7/1/2020 4:24:54 PM	B70053
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	5	7/1/2020 4:24:54 PM	B70053

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2006F13**
Date Reported: **7/2/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Kite 5 I Fed 5
Lab ID: 2006F13-012

Client Sample ID: S-9 0-0.5'
Collection Date: 6/26/2020 1:16:00 PM
Matrix: MEOH (SOIL) **Received Date:** 6/30/2020 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	1100	60		mg/Kg	20	6/30/2020 1:55:52 PM	53417
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	84	9.3		mg/Kg	1	6/30/2020 1:27:42 PM	53415
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/30/2020 1:27:42 PM	53415
Surr: DNOP	105	55.1-146		%Rec	1	6/30/2020 1:27:42 PM	53415
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	20		mg/Kg	5	7/1/2020 4:48:38 PM	G70053
Surr: BFB	103	66.6-105		%Rec	5	7/1/2020 4:48:38 PM	G70053
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.099		mg/Kg	5	7/1/2020 4:48:38 PM	B70053
Toluene	ND	0.20		mg/Kg	5	7/1/2020 4:48:38 PM	B70053
Ethylbenzene	ND	0.20		mg/Kg	5	7/1/2020 4:48:38 PM	B70053
Xylenes, Total	ND	0.40		mg/Kg	5	7/1/2020 4:48:38 PM	B70053
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	5	7/1/2020 4:48:38 PM	B70053

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2006F13**
Date Reported: **7/2/2020**

CLIENT: Talon Artesia
Project: Kite 5 I Fed 5
Lab ID: 2006F13-013
Matrix: MEOH (SOIL)
Client Sample ID: S-10 0.5'
Collection Date: 6/26/2020 1:20:00 PM
Received Date: 6/30/2020 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	1500	60		mg/Kg	20	6/30/2020 2:08:13 PM	53417
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	580	9.6		mg/Kg	1	6/30/2020 2:45:16 PM	53415
Motor Oil Range Organics (MRO)	320	48		mg/Kg	1	6/30/2020 2:45:16 PM	53415
Surr: DNOP	115	55.1-146		%Rec	1	6/30/2020 2:45:16 PM	53415
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	22		mg/Kg	5	7/1/2020 3:37:19 PM	G70053
Surr: BFB	129	66.6-105	S	%Rec	5	7/1/2020 3:37:19 PM	G70053
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.11		mg/Kg	5	7/1/2020 3:37:19 PM	B70053
Toluene	ND	0.22		mg/Kg	5	7/1/2020 3:37:19 PM	B70053
Ethylbenzene	ND	0.22		mg/Kg	5	7/1/2020 3:37:19 PM	B70053
Xylenes, Total	0.61	0.44		mg/Kg	5	7/1/2020 3:37:19 PM	B70053
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	5	7/1/2020 3:37:19 PM	B70053

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2006F13

02-Jul-20

Client: Talon Artesia

Project: Kite 5 I Fed 5

Sample ID: **MB-53417**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **53417**	RunNo: **70021**
Prep Date: **6/30/2020**	Analysis Date: **6/30/2020**	SeqNo: **2433057** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-53417**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **53417**	RunNo: **70021**
Prep Date: **6/30/2020**	Analysis Date: **6/30/2020**	SeqNo: **2433058** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.0	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2006F13

02-Jul-20

Client: Talon Artesia

Project: Kite 5 I Fed 5

Sample ID: **MB-53415** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **53415** RunNo: **70006**

Prep Date: **6/30/2020** Analysis Date: **6/30/2020** SeqNo: **2432270** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		94.6	55.1	146			

Sample ID: **LCS-53415** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **53415** RunNo: **70006**

Prep Date: **6/30/2020** Analysis Date: **6/30/2020** SeqNo: **2432288** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.1	70	130			
Surr: DNOP	4.7		5.000		94.9	55.1	146			

Sample ID: **2006F13-013AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **S-10 0.5'** Batch ID: **53415** RunNo: **70006**

Prep Date: **6/30/2020** Analysis Date: **6/30/2020** SeqNo: **2432740** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	490	9.6	48.08	578.4	-179	47.4	136			S
Surr: DNOP	5.5		4.808		115	55.1	146			

Sample ID: **2006F13-013AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **S-10 0.5'** Batch ID: **53415** RunNo: **70006**

Prep Date: **6/30/2020** Analysis Date: **6/30/2020** SeqNo: **2432741** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	550	9.1	45.29	578.4	-64.1	47.4	136	10.9	43.4	S
Surr: DNOP	5.3		4.529		117	55.1	146	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2006F13

02-Jul-20

Client: Talon Artesia

Project: Kite 5 I Fed 5

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **G70053**	RunNo: **70053**
Prep Date:	Analysis Date: **7/1/2020**	SeqNo: **2434081** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	66.6	105			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G70053**	RunNo: **70053**
Prep Date:	Analysis Date: **7/1/2020**	SeqNo: **2434082** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	80	120			
Surr: BFB	1100		1000		114	66.6	105			S

Sample ID: **mb-II**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **A70053**	RunNo: **70053**
Prep Date:	Analysis Date: **7/1/2020**	SeqNo: **2434114** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	66.6	105			

Sample ID: **2.5ug gro lcs-II**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **A70053**	RunNo: **70053**
Prep Date:	Analysis Date: **7/1/2020**	SeqNo: **2434115** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	80	120			
Surr: BFB	1200		1000		116	66.6	105			S

Sample ID: **2006f13-005ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-3 2'**	Batch ID: **A70053**	RunNo: **70053**
Prep Date:	Analysis Date: **7/2/2020**	SeqNo: **2434122** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.6	17.99	0	92.1	80	120			
Surr: BFB	780		719.4		109	66.6	105			S

Sample ID: **2006f13-005amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-3 2'**	Batch ID: **A70053**	RunNo: **70053**
Prep Date:	Analysis Date: **7/2/2020**	SeqNo: **2434123** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2006F13**

02-Jul-20

Client: Talon Artesia

Project: Kite 5 I Fed 5

Sample ID: **2006f13-005amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-3 2'**	Batch ID: **A70053**	RunNo: **70053**
Prep Date:	Analysis Date: **7/2/2020**	SeqNo: **2434123** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	3.6	17.99	0	106	80	120	13.9	20	
Surr: BFB	820		719.4		115	66.6	105	0	0	S

Sample ID: **mb-53350**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **53350**	RunNo: **70053**
Prep Date: **6/27/2020**	Analysis Date: **7/1/2020**	SeqNo: **2434124** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	990		1000		99.4	66.6	105			

Sample ID: **lcs-53350**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **53350**	RunNo: **70053**
Prep Date: **6/27/2020**	Analysis Date: **7/1/2020**	SeqNo: **2434125** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		109	66.6	105			S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2006F13

02-Jul-20

Client: Talon Artesia

Project: Kite 5 I Fed 5

Sample ID: mb1	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles
Client ID: PBS	Batch ID: B70022	RunNo: 70022
Prep Date:	Analysis Date: 6/30/2020	SeqNo: 2432876 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID: 100ng btex lcs	SampType: LCS	TestCode: EPA Method 8021B: Volatiles
Client ID: LCSS	Batch ID: B70022	RunNo: 70022
Prep Date:	Analysis Date: 6/30/2020	SeqNo: 2432877 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	97.9	80	120			
Toluene	0.99	0.050	1.000	0	98.6	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.2	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.2	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID: 2006f13-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles
Client ID: S-1 2'	Batch ID: B70022	RunNo: 70053
Prep Date:	Analysis Date: 7/2/2020	SeqNo: 2434142 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.73	0.020	0.8110	0	89.5	78.5	119			
Toluene	0.72	0.041	0.8110	0	88.6	75.7	123			
Ethylbenzene	0.71	0.041	0.8110	0	87.1	74.3	126			
Xylenes, Total	2.1	0.081	2.433	0	88.1	72.9	130			
Surr: 4-Bromofluorobenzene	0.87		0.8110		107	80	120			

Sample ID: 2006f13-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles
Client ID: S-1 2'	Batch ID: B70022	RunNo: 70053
Prep Date:	Analysis Date: 7/2/2020	SeqNo: 2434144 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.020	0.8110	0	137	78.5	119	42.1	20	RS
Toluene	1.1	0.041	0.8110	0	137	75.7	123	43.0	20	RS
Ethylbenzene	1.1	0.041	0.8110	0	136	74.3	126	43.5	20	RS
Xylenes, Total	3.3	0.081	2.433	0	136	72.9	130	42.9	20	RS
Surr: 4-Bromofluorobenzene	0.88		0.8110		109	80	120	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2006F13

02-Jul-20

Client: Talon Artesia

Project: Kite 5 I Fed 5

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B70053**	RunNo: **70053**
Prep Date:	Analysis Date: **7/1/2020**	SeqNo: **2434145** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B70053**	RunNo: **70053**
Prep Date:	Analysis Date: **7/1/2020**	SeqNo: **2434147** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.2	80	120			
Toluene	0.94	0.050	1.000	0	94.4	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.9	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.9	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Sample ID: **mb-53350**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **53350**	RunNo: **70053**
Prep Date: **6/27/2020**	Analysis Date: **7/1/2020**	SeqNo: **2434168** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID: **LCS-53350**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **53350**	RunNo: **70053**
Prep Date: **6/27/2020**	Analysis Date: **7/1/2020**	SeqNo: **2434169** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Talon Artesia | Work Order Number: 2006F13 | RcptNo: 1

Received By: Scott Anderson 6/30/2020 8:55:00 AM

Completed By: Juan Rojas 6/30/2020 9:41:24 AM

Reviewed By: DAD 6/30/20

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
5. Sample(s) in proper container(s)? Not Frozen — Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: NS 6/30/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.9	Good				
2	8.6	Good				
3	4.4	Good				

Chain-of-Custody Record

Client: Talon LPE

408 W Texas ~~St~~ Ave

Mailing Address: Artesia, NM 88210

Phone #:

email or Fax#: (575) 746-8905

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: ~~48 hr~~ ST SAME DAY

☐ Standard ☐ Rush

Project Name: Kite 5 I Fed #5

Project #: 701307.132.01

Project Manager: David Adkins

Sampler: Brandon Sinclair

On Ice: ☒ Yes ☐ No

# of Coolers: 3

Cooler Temp (including CF): 4.6 -0 = 4.6; 4.9; 4.4; 4.7

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2006F13	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)						
6-26-20	12:21	soil	S-1 1'	4 oz jar	ice	-001	✓	✓					✓									
	12:24		S-1 2'			-002																
	12:30		S-2 0.5' R			-003																
	12:48		S-3 1'			-004																
	12:51		S-3 2'			-005																
	12:53		S-4 0-0.5'			-006																
	12:56		S-4 0.75' R			-007																
	13:01		S-5 0.5'			-008																
	13:04		S-6 0.5'			-009																
	13:10		S-7 0.5'			-010																
	13:14		S-8 0.5'			-011																
	13:16		S-9 0-0.5'			-012																

Date	Time	Relinquished by	Received by	Via	Date	Time
6/29/20	1150	[signature]	[signature]		6/29	1150
6/29/20	1900	[signature]	STA	Courier	6.30.20	855

Remarks: Please cc the following via email:
Dadkins@talonlpe.com
Rpons@talonlpe.com

Pg 1 of 2

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: Talon LPE

408 W Texas ~~St~~ Ave

Mailing Address: Artesia, NM 88210

Phone #:

email or Fax#: (575) 746-8905

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time: ~~48 hrs~~ Same day
☐ Standard ☐ Rush

Project Name: Kite 5 I Fed #5

Project #: 701307.132.01

Project Manager: David Adkins

Sampler: Brandon Sinclair

On Ice: ☒ Yes ☐ No

# of Coolers: 3

Cooler Temp (including CF): 4.2 -0 = 4.2; 4.0 -0 = 4.0; 8.6 -0 = 8.6 (4.4, 4.4)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2006F13	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)					
6-26-20	13:20	Soil	S-10 0.5'	4 oz jar	ice	-013	✓	✓					✓								

Date	Time	Relinquished by	Received by	Via	Date	Time
6/29/20	1150	[signature]	[signature]		6/29	1150
6/29/20	1900	[signature]	SPA	Courier	6.30.20	8:55

Remarks: Please cc the following via email:
Dadkins@talonlpe.com
Rpons@talonlpe.com

pg 2 of 2

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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Analytical Report 666522

for

Talon LPE-Artesia

Project Manager: David Adkins

Kite 5 I Fed 5

701307.132.01

07.09.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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07.09.2020

Project Manager: **David Adkins**
Talon LPE-Artesia
408 West Texas St.
Artesia, NM 88210

Reference: Eurofins Xenco, LLC Report No(s): **666522**
Kite 5 I Fed 5
Project Address: Eddy County

David Adkins:

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 Eurofins Xenco, LLC Report Number(s) 666522. 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 Eurofins Xenco, LLC. 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. 666522 will be filed for 45 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 Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 666522

Talon LPE-Artesia, Artesia, NM

Kite 5 I Fed 5

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S.SW 1.5'	S	07.06.2020 10:00	1.5 ft	666522-001
W.SW 1.5'	S	07.06.2020 10:10	1.5 ft	666522-002
S-1A 2.5'	S	07.06.2020 11:45	2.5 ft	666522-003
S-3A 2.5'	S	07.06.2020 11:50	2.5 ft	666522-004
S-2A 1.5'	S	07.06.2020 12:00	1.5 ft	666522-005
S-12 1.5'	S	07.06.2020 12:05	1.5 ft	666522-006
S-11 1.5'	S	07.06.2020 12:10	1.5 ft	666522-007
S-8A 1.5'	S	07.07.2020 07:30	1.5 ft	666522-008
E.SW 1.5'	S	07.07.2020 08:30	1.5 ft	666522-009
S-9A 1.5'	S	07.07.2020 10:50	1.5 ft	666522-010
S-10A 1.5'	S	07.07.2020 11:00	1.5 ft	666522-011
N.SW 1.5'	S	07.07.2020 12:00	1.5 ft	666522-012

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CASE NARRATIVE

Client Name: Talon LPE-Artesia

Project Name: Kite 5 I Fed 5

Project ID: *701307.132.01*
Work Order Number(s): *666522*

Report Date: *07.09.2020*
Date Received: *07.07.2020*

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results

666522

Talon LPE-Artesia, Artesia, NM

Kite 5 I Fed 5

Sample Id: **S.SW 1.5'** Matrix: Soil Sample Depth: 1.5 ft

Lab Sample Id: 666522-001 Date Collected: 07.06.2020 10:00 Date Received: 07.07.2020 15:15

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3131013 Date Prep: 07.08.2020 07:59

Prep seq: 7706918

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**324**	49.9	1.77	mg/kg	07.08.2020 09:47		5

Sample Id: **W.SW 1.5'** Matrix: Soil Sample Depth: 1.5 ft

Lab Sample Id: 666522-002 Date Collected: 07.06.2020 10:10 Date Received: 07.07.2020 15:15

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3131013 Date Prep: 07.08.2020 07:59

Prep seq: 7706918

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**325**	50.0	1.77	mg/kg	07.08.2020 09:52		5

Sample Id: **S-1A 2.5'** Matrix: Soil Sample Depth: 2.5 ft

Lab Sample Id: 666522-003 Date Collected: 07.06.2020 11:45 Date Received: 07.07.2020 15:15

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3131013 Date Prep: 07.08.2020 07:59

Prep seq: 7706918

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**293**	50.1	1.77	mg/kg	07.08.2020 09:58		5

Sample Id: **S-3A 2.5'** Matrix: Soil Sample Depth: 2.5 ft

Lab Sample Id: 666522-004 Date Collected: 07.06.2020 11:50 Date Received: 07.07.2020 15:15

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3131013 Date Prep: 07.08.2020 07:59

Prep seq: 7706918

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**304**	50.2	1.78	mg/kg	07.08.2020 10:03		5

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Certificate of Analytical Results

666522

Talon LPE-Artesia, Artesia, NM

Kite 5 I Fed 5

Sample Id: **S-2A 1.5'** Matrix: Soil Sample Depth: 1.5 ft

Lab Sample Id: 666522-005 Date Collected: 07.06.2020 12:00 Date Received: 07.07.2020 15:15

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3131013 Date Prep: 07.08.2020 07:59

Prep seq: 7706918

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**363**	49.6	1.76	mg/kg	07.08.2020 10:20		5

Sample Id: **S-12 1.5'** Matrix: Soil Sample Depth: 1.5 ft

Lab Sample Id: 666522-006 Date Collected: 07.06.2020 12:05 Date Received: 07.07.2020 15:15

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3131013 Date Prep: 07.08.2020 07:59

Prep seq: 7706918

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**264**	49.9	1.77	mg/kg	07.08.2020 10:26		5

Sample Id: **S-11 1.5'** Matrix: Soil Sample Depth: 1.5 ft

Lab Sample Id: 666522-007 Date Collected: 07.06.2020 12:10 Date Received: 07.07.2020 15:15

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3131013 Date Prep: 07.08.2020 07:59

Prep seq: 7706918

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**121**	49.8	1.76	mg/kg	07.08.2020 10:31		5

Sample Id: **S-8A 1.5'** Matrix: Soil Sample Depth: 1.5 ft

Lab Sample Id: 666522-008 Date Collected: 07.07.2020 07:30 Date Received: 07.07.2020 15:15

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3131013 Date Prep: 07.08.2020 07:59

Prep seq: 7706918

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**238**	49.9	1.77	mg/kg	07.08.2020 10:37		5

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Certificate of Analytical Results

666522

Talon LPE-Artesia, Artesia, NM

Kite 5 I Fed 5

Sample Id: **E.SW 1.5'** Matrix: Soil Sample Depth: 1.5 ft

Lab Sample Id: 666522-009 Date Collected: 07.07.2020 08:30 Date Received: 07.07.2020 15:15

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3131013 Date Prep: 07.08.2020 07:59

Prep seq: 7706918

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**271**	49.6	1.76	mg/kg	07.08.2020 10:42		5

Sample Id: **S-9A 1.5'** Matrix: Soil Sample Depth: 1.5 ft

Lab Sample Id: 666522-010 Date Collected: 07.07.2020 10:50 Date Received: 07.07.2020 15:15

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3131013 Date Prep: 07.08.2020 07:59

Prep seq: 7706918

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**256**	49.7	1.76	mg/kg	07.08.2020 10:48		5

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Certificate of Analytical Results

666522

Talon LPE-Artesia, Artesia, NM

Kite 5 I Fed 5

Sample Id: **S-10A 1.5'** Matrix: Soil Sample Depth: 1.5 ft

Lab Sample Id: 666522-011 Date Collected: 07.07.2020 11:00 Date Received: 07.07.2020 15:15

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3131013 Date Prep: 07.08.2020 07:59

Prep seq: 7706918

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**282**	50.1	1.77	mg/kg	07.08.2020 11:05		5

Analytical Method: TPH by SW8015 Mod Prep Method: 8015

Analyst: DTH % Moist: Tech: DTH

Seq Number: 3130996 Date Prep: 07.07.2020 16:00

Prep seq: 7706889

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.0	50.3	14.0	mg/kg	07.07.2020 17:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.5	50.3	11.5	mg/kg	07.07.2020 17:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.5	50.3	11.5	mg/kg	07.07.2020 17:10	U	1
Total TPH	PHC635	<11.5		11.5	mg/kg	07.07.2020 17:10	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	95	70 - 135	%		
o-Terphenyl	101	70 - 135	%		

Sample Id: **N.SW 1.5'** Matrix: Soil Sample Depth: 1.5 ft

Lab Sample Id: 666522-012 Date Collected: 07.07.2020 12:00 Date Received: 07.07.2020 15:15

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3131013 Date Prep: 07.08.2020 07:59

Prep seq: 7706918

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**313**	50.2	1.78	mg/kg	07.08.2020 11:10		5

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Certificate of Analytical Results

666522

Talon LPE-Artesia, Artesia, NM

Kite 5 I Fed 5

Sample Id: **7706889-1-BLK** Matrix: Solid Sample Depth:

Lab Sample Id: 7706889-1-BLK Date Collected: Date Received:

Analytical Method: TPH by SW8015 Mod Prep Method: 8015

Analyst: DTH % Moist: Tech: DTH

Seq Number: 3130996 Date Prep: 07.07.2020 16:00

Prep seq: 7706889

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.9	50.0	13.9	mg/kg	07.07.2020 15:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.5	50.0	11.5	mg/kg	07.07.2020 15:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.5	50.0	11.5	mg/kg	07.07.2020 15:06	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	99	70 - 135	%		
o-Terphenyl	102	70 - 135	%		

Sample Id: **7706918-1-BLK** Matrix: Solid Sample Depth:

Lab Sample Id: 7706918-1-BLK Date Collected: Date Received:

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3131013 Date Prep: 07.08.2020 07:59

Prep seq: 7706918

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	<0.354	10.0	0.354	mg/kg	07.08.2020 08:39	U	1

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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. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection 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

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ 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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Form 2 - Surrogate Recoveries

Project Name: Kite 5 I Fed 5

Report Date: 07092020

Work Orders : 666522

Project ID: 701307.132.01

Lab Batch #: 3130996 **Sample:** 7706889-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 07.07.2020 15:06 **SURROGATE RECOVERY STUDY**

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.7	100	99	70-135	
o-Terphenyl	51.0	50.0	102	70-135	

Lab Batch #: 3130996 **Sample:** 7706889-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 07.07.2020 15:27 **SURROGATE RECOVERY STUDY**

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	100	118	70-135	
o-Terphenyl	57.0	50.0	114	70-135	

Lab Batch #: 3130996 **Sample:** 7706889-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 07.07.2020 15:47 **SURROGATE RECOVERY STUDY**

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	56.5	50.0	113	70-135	

Lab Batch #: 3130996 **Sample:** 666482-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07.07.2020 16:28 **SURROGATE RECOVERY STUDY**

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	113	99.7	113	70-135	
o-Terphenyl	46.5	49.9	93	70-135	

Lab Batch #: 3130996 **Sample:** 666482-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07.07.2020 16:49 **SURROGATE RECOVERY STUDY**

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	111	99.5	112	70-135	
o-Terphenyl	45.2	49.8	91	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

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BS / BSD Recoveries

Project Name: Kite 5 I Fed 5

Work Order #: 666522 **Project ID:** 701307.132.01

Analyst: MAB **Date Prepared:** 07.08.2020 **Date Analyzed:** 07.08.2020

Lab Batch ID: 3131013 **Sample:** 7706918-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<0.354	250	245	98	250	255	102	4	90-110	20	

Analyst: DTH **Date Prepared:** 07.07.2020 **Date Analyzed:** 07.07.2020

Lab Batch ID: 3130996 **Sample:** 7706889-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<13.9	1000	1120	112	1000	1100	110	2	70-135	35	
Diesel Range Organics (DRO)	<11.5	1000	1180	118	1000	1170	117	1	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

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Form 3 - MS / MSD Recoveries

Project Name: Kite 5 I Fed 5

Report Date: 07092020
Project ID: 701307.132.01

Work Order # : 666522
Lab Batch ID: 3131013 **QC- Sample ID:** 666482-001 S **Batch #:** 1 **Matrix:** Soil
Date Analyzed: 07.08.2020 **Date Prepared:** 07.08.2020 **Analyst:** MAB
Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<0.354	200	210	105	200	212	106	1	90-110	20	

Lab Batch ID: 3131013 **QC- Sample ID:** 666522-010 S **Batch #:** 1 **Matrix:** Soil
Date Analyzed: 07.08.2020 **Date Prepared:** 07.08.2020 **Analyst:** MAB
Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	256	198	474	110	199	449	97	5	90-110	20	

Lab Batch ID: 3130996 **QC- Sample ID:** 666482-001 S **Batch #:** 1 **Matrix:** Soil
Date Analyzed: 07.07.2020 **Date Prepared:** 07.07.2020 **Analyst:** DTH
Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<13.8	997	1050	105	995	1020	103	3	70-135	35	
Diesel Range Organics (DRO)	<11.4	997	1090	109	995	1190	120	9	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200*|(C-F) / (C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A) / E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: 6616522

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Project Manager:	D.ADKINS	Bill to: (if different)	
Company Name:	TALON LPE	Company Name:	
Address:	408 W. TEXAS AVE	Address:	
City, State ZIP:	ARTESIA NM 88101	City, State ZIP:	
Phone:	575-~~748~~ 746-8768	Email:	dadkins@talonlpe.com mcollier@talonlpe.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	KITE 5 I FED 5	Turn Around	
Project Number:	701307.132.01	☐ Routine ☒ Rush	
Project Location	EDDY COUNTY	Due Date:	48hr
Sampler's Name:	MICHAEL COLLIER	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	701307.132.01		

SAMPLE RECEIPT					
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No		
Received Intact:	(Yes) No	Thermometer ID:	TMH007		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2		
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	1.0/0.8		
Total Containers:	12	Corrected Temperature:	0.8		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: TOTAL CHLORIDES
S.SW 1.5'	SOIL	7/6/2020	10:00	1.5'	COMP	1	✓
W.SW 1.5'			10:10	1.5'			
S-1A 2.5'			11:45	2.5'			
S-3A 2.5'			11:50	2.5'			
S-2A 1.5			12:00	1.5'			
S-12 1.5'			12:05				
S-11 1.5'			12:10				
S-8A 1.5'		7/7/2020	7:30				
E.SW 1.5'			8:30				
S-9A 1.5'			10:50	1.5'			

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		07-07-20 14:30	2		7/7/20 15:15
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

Final 1.000

Chain of Custody

XENCO LABORATORIES

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: 111522

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Project Manager:	D.ADKINS	Bill to: (if different)	
Company Name:	TALON LPE	Company Name:	
Address:	408 W. TEXAS AVE	Address:	
City, State ZIP:	ARTESIA NM 88101	City, State ZIP:	
Phone:	575-746-8768	Email:	dadkins@talonlpe.com mcollier@talonlpe.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	KITE 5 J FED 5	Turn Around	
Project Number:	701307.132.01	☐ Routine ☒ Rush	
Project Location	EDDY COUNTY	Due Date:	48hr
Sampler's Name:	MICHAEL COLLIER	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	701307.132.01		

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	
Total Containers:		Corrected Temperature:	

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TOTAL CHLORIDES	Parameters: TPH	Sample Comments
S-10A 1.5'	SOIL	7/7/2020	11:00	1.5'	COMP	1		✓	✓	
N.SW 1.5'	SOIL	7/7/2020	12:00	1.5'	COMP	1		✓		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			07-07-20 14:32			7/7/20 15:15
3				4		
5				6		

Revised Date 05012020 Rev. 2020.1