

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	2RP-4944
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party COG Operating LLC	OGRID 229137
Contact Name Robert McNeill	Contact Telephone 432-683-7443
Contact email rmcneill@concho.com	Incident # (assigned by OCD)
Contact mailing address 600 West Illinois Avenue, Midland, TX 79701	

Location of Release Source

Latitude 32.0352751 Longitude -104.2249731
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Screech Owl Federal #004H	Site Type Flowline
Date Release Discovered 8/18/2018	API# (if applicable) 30-015-

Unit Letter	Section	Township	Range	County
O	18	26S	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)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 50	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The release was caused by a rupture in the flowline.

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Over 25 bbls released
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? 8/19/2018 at 12:27pm via phone to: Mike Bratcher – NMOCD Maria Pruett – NMOCD Shelly Tucker - SLO	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
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: <u>Jennifer Knowlton</u>	Title: <u>HRL Compliance Solutions, Regional Manager</u>
Signature: <u></u>	Date: <u>11/02/2018</u>
email: <u>jknowlton@hrlcomp.com</u>	Telephone: <u>505-238-3588</u>
<u>OCD Only</u> Received by: _____ Date: _____	

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Facility ID	
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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	≤50 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
515	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

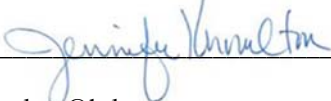
<p>Characterization Report Checklist: <i>Each of the following items must be included in the report.</i></p> <ul style="list-style-type: none"><input checked="" type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.<input checked="" type="checkbox"/> Field data<input checked="" type="checkbox"/> Data table of soil contaminant concentration data<input checked="" type="checkbox"/> Depth to water determination<input checked="" type="checkbox"/> Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release<input type="checkbox"/> Boring or excavation logs<input type="checkbox"/> Photographs including date and GIS information<input checked="" type="checkbox"/> Topographic/Aerial maps<input checked="" type="checkbox"/> Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

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Printed Name: Jennifer KnowltonTitle: HRL Compliance Solutions, Regional ManagerSignature: Date: 11/02/2018email: jknowlton@hrlcomp.comTelephone: 505-238-3588**OCD Only**

Received by: _____

Date: _____

Incident ID	
District RP	2RP-4944
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Application ID	

Remediation Plan


Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Jennifer Knowlton Title: HRL Compliance Solutions, Regional Manager
 Signature:  Date: 11/02/2018
 email: jknowlton@hrlcomp.com Telephone: 505-238-3588

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Incident ID	
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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: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

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: _____



2RP-4944

SUBJECT: SOIL REMEDIATION PLAN FOR THE INCIDENT AT THE Screech Owl #004H, EDDY COUNTY, NEW MEXICO

On behalf of COG Operating, LLC, HRL Compliance Solutions, Inc (HRL) has prepared this remediation plan that describes the assessment, characterization, and proposed remediation for a release associated with the Screech Owl #004H. The site is in Unit O, SECTION 18, TOWNSHIP 26S, RANGE 27E, NMPPM, Eddy County, New Mexico, on Federal surface.

Site Assessment/Characterization

An assessment of surrounding water well information identified 5 water wells within a 3-mile buffer. Depth to water at this site is estimated to be less than 50 feet at the location. This information is illustrated in Attachment A.

There are no features of concern identified within proximity of the site. There is no flowing watercourse or significant watercourse within 300 feet of this location. There is no lakebed, sinkhole, or playa lake within 200 feet for this location. This location is not within 300 feet of an occupied permanent residence, school, hospital, institution, or church. This location is not within 500 feet of a domestic freshwater well. This facility is not within incorporated municipal boundaries or within a defined municipal freshwater well field. This is illustrated in Attachment B.

An assessment of wetlands and springs was performed using USGS National Water Information System and re-verified utilizing a 7.5-minute topographical map. There are no wetlands within 300 feet of this location. There are no springs within 1000 feet of this location. This map is in Attachment B.

This facility is not within a 100-year floodplain as per FEMA. A portion of the FEMA map Panel 35015C1825D is in Attachment B.

This location is located in an area identified as an unstable karst geology area per BLM. See email in Attachment B.

Upon receiving clearance from the underground utility locate (811) on October 10, 2018, HRL field personnel assessed the impacted area. Samples were collected on 10/11/2018 to characterize the extent of impacts and calculate a volume of soil to be excavated for disposal with a backhoe. All samples were collected and analyzed at a National Environmental Laboratory Accreditation Program (NELAP) laboratory and in accordance with NMOCD soil sampling procedures. The samples were submitted to Cardinal Laboratories for analyses including chlorides by Method 4500, volatile organics (BTEX) by Method 8021B, and MRO, DRO, and GRO by EPA Method 8015M. Sample locations are depicted in Attachment C. All laboratory results are summarized in Table 1 with raw analytical reports included in Attachment D.



Table 1: Analytical Results Summary

Screech Owl								
Sample ID	Date	Chloride mg/Kg	Benzene mg/Kg	BTEX mg/Kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	TPH mg/Kg
S1- Surface	10/11/2018	2,760	<0.050	<0.050	<10.0	<10.0	<10.0	ND
S1-1'	10/11/2018	1,330	<0.050	<0.3	<10.0	<10.0	<10.0	ND
S1-2'	10/11/2018	176	-	-	-	-	-	-
S2 Surface	10/11/2018	752	<0.050	<0.3	<10.0	<10.0	<10.0	ND
S2-1'	10/11/2018	240	<0.050	<0.3	<10.0	<10.0	<10.0	ND
S2-2'	10/11/2018	1,170	-	-	-	-	-	-
S3 Surface	10/11/2018	1,330	<0.050	<0.3	<10.0	<10.0	<10.0	ND
S3-1'	10/11/2018	608	<0.050	<0.3	<10.0	<10.0	<10.0	ND
S4 Surface	10/11/2018	848	<0.050	<0.3	<10.0	91	21.4	112.4
S4-1'	10/11/2018	1,470	<0.050	<0.3	<10.0	34	<10.0	34
S4-2'	10/11/2018	5,280	-	-	-	-	-	-
S5 Surface	10/11/2018	3,680	<0.050	<0.3	<10.0	<10.0	<10.0	ND
S5-1'	10/11/2018	1,010	<0.050	<0.3	<10.0	<10.0	<10.0	ND
S5-2'	10/11/2018	1,060	-	-	-	-	-	-
S6 Surface	10/11/2018	592	<0.050	<0.3	<10.0	<10.0	<10.0	ND
S6-1'	10/11/2018	2,960	<0.050	<0.3	<10.0	<10.0	<10.0	ND
S6-2'	10/11/2018	1,570	-	-	-	-	-	-
S7 Surface	10/11/2018	48	<0.050	<0.3	<10.0	<10.0	<10.0	ND
S7-1'	10/11/2018	64	<0.050	<0.3	<10.0	<10.0	<10.0	ND
S7-2'	10/11/2018	160	-	-	-	-	-	-
S8 Surface	10/11/2018	320	<0.050	<0.3	<10.0	<10.0	<10.0	ND
S8-1'	10/11/2018	1,410	<0.050	<0.3	<10.0	<10.0	<10.0	ND
S8-2'	10/11/2018	1,280	-	-	-	-	-	-



Screech Owl								
Sample ID	Date	Chloride mg/Kg	Benzene mg/Kg	BTEX mg/Kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	TPH mg/Kg
S9 Surface	10/11/2018	80	<0.050	<0.3	<10.0	<10.0	<10.0	ND
S9-1'	10/11/2018	272	<0.050	<0.3	<10.0	<10.0	<10.0	ND
S9-2'	10/11/2018	752	-	-	-	-	-	-
S10 Surface	10/11/2018	224	<0.050	<0.3	<10.0	<10.0	<10.0	ND
S10-1'	10/11/2018	4,200	<0.050	<0.3	<10.0	<10.0	<10.0	ND
S10-2'	10/11/2018	6,800	-	-	-	-	-	-
S11 Surface	10/11/2018	112	<0.050	<0.3	<10.0	<10.0	<10.0	ND
S11-1'	10/11/2018	144	<0.050	<0.3	<10.0	<10.0	<10.0	ND
S11-2'	10/11/2018	3,040	-	-	-	-	-	-
S12 Surface	10/11/2018	32	<0.050	<0.3	<10.0	<10.0	<10.0	ND
S12-1'	10/11/2018	240	<0.050	<0.3	<10.0	<10.0	<10.0	ND
S12-2'	10/11/2018	1,020	-	-	-	-	-	-
GK-2'	10/11/2018	112	<0.050	<0.3	<10.0	<10.0	<10.0	ND

Closure Criteria Assessment

Closure Criteria		
Depth to Ground Water	Constituent	Limit
Less than 50 feet	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

As per NMAC 19.15.29.12.C(4)(g), because this location is within an unstable area, the area must be remediated as if occurred in an area with less than 50 feet to groundwater;



Remediation Plan

COG recognizes that this site was not fully delineated due to inaccessibility issues during the characterization phase and the limitations of the equipment used. The area around S7 is below closure thresholds. The area around S1 will be excavated to an approximate depth of 2 feet. The remainder of the spill area will be excavated to a depth where field testing shows that the chloride contamination is 600 mg/kg or less. During characterization, a dense formation was found, and progression of sampling was stopped in several locations along the spill path. Additional characterization and remediation will occur with a track hoe. If a dense formation is found and further excavation is deemed improbable, OCD will be contacted for further discussion and guidance. Once the soils are excavated to the appropriate depths, and field screening is below 600 mg/kg, the excavated area will be backfilled with clean soil. The total estimated volume of material to be removed is 1200 cubic yards. The areas and excavated yardages may be adjusted during the excavation based on field screening.

This spill is along a Lucid Energy pipeline. Encroachment guidelines require a buffer on either side of the pipeline. COG will be meeting with Lucid to discuss the proposed remediation and their excavation policy and requirements near the line. The impacted soil near the Lucid line may not be viable or practicable to be removed due to safety concerns by onsite personnel. As such, COG will remove the impacted soils to the maximum extent practicable.

Remediation will be completed within 90 days of approval of this remediation plan.

Variance Request - Confirmation Sampling

In addition, Concho would like a variance from NMAC 19.15.29.12.D(2). Characterization of the remediation area clearly shows that there is no exceedance of Table 1 constituents other than chloride. Concho would like to analyze the confirmation samples only for chlorides. This will allow Concho to expediate the analysis and proceed with backfilling the location.

Restoration, Reclamation, and Re-Vegetation

Reclamation will be performed as per BLM specifications.

If there are any questions regarding this report, please contact Jennifer Knowlton at 505-238-3588.

Submitted by:

HRL Compliance Solutions, Inc

Jennifer Knowlton

Regional Manager - Permian



Attachments:

Attachment A: NMOSE Depth to Water Map and Report

Attachment B: Site Location Map

Wetlands Map

Floodplain Map

Karst Area Map

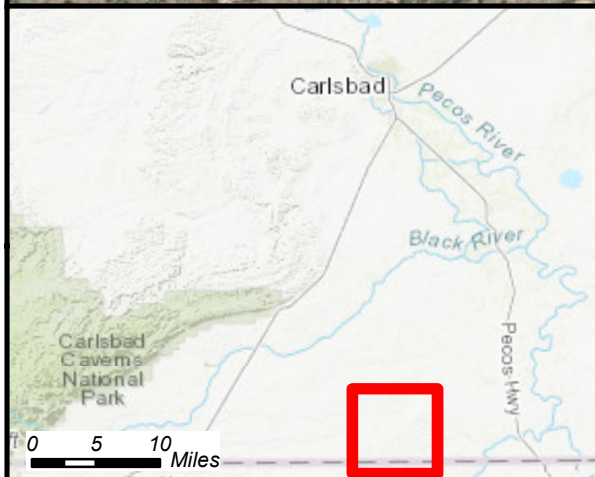
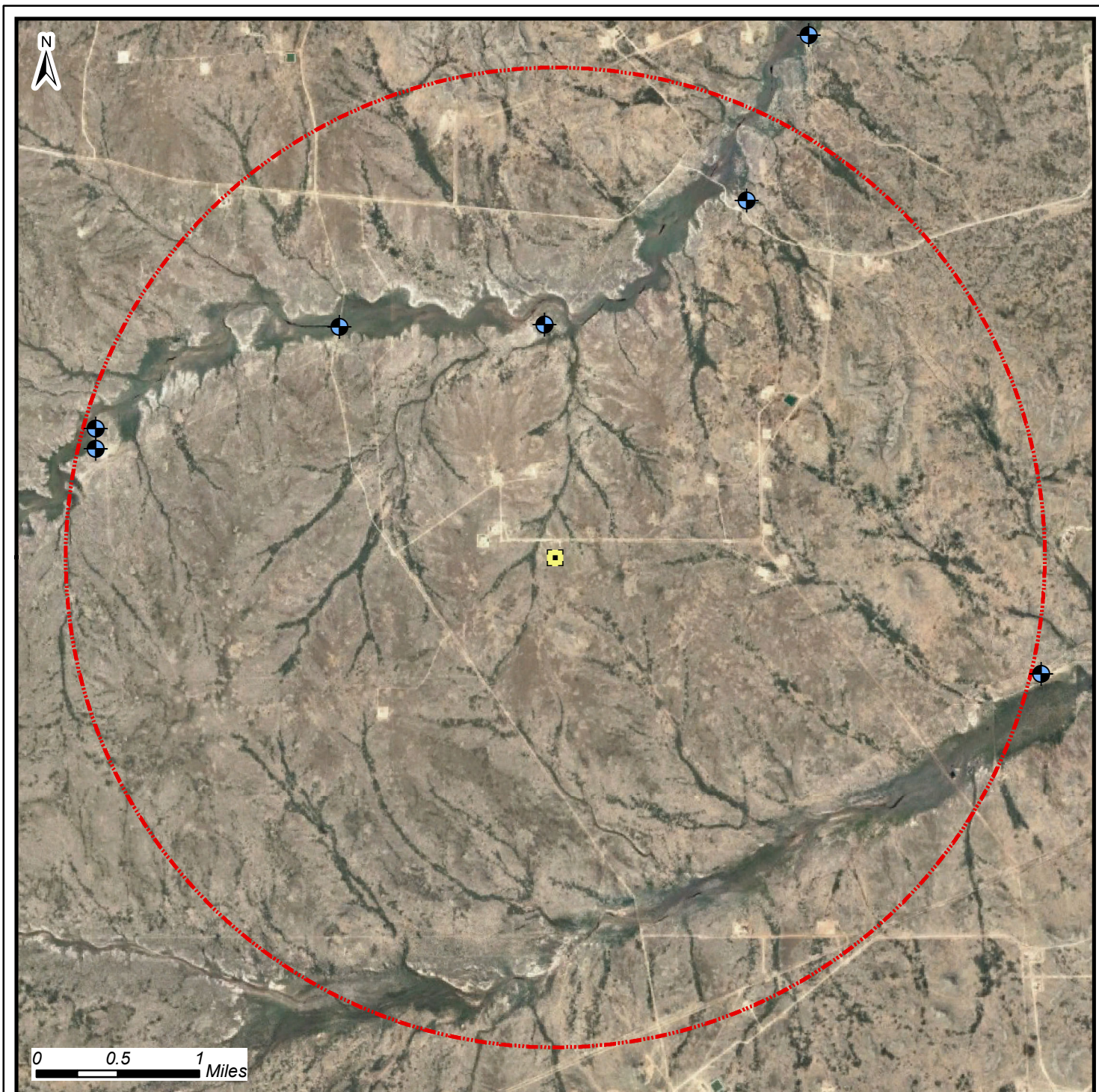
Attachment C: Sample Location Map

Attachment D: Laboratory Analytical Reports



Attachment A:

NMOSE Depth to Water Map and Report



DTGW Map

Screech Owl Federal #4

32.033687 -104.225342

Section 19, Township 26 South, Range 27 East

Mapped Features



Water Wells



3 Mile Buffer



Well Pad

DISCLAIMER: This representation and the Geographic Information System (GIS) used to create it are designed as a source of reference and not intended to replace official records and/or legal surveys. HRL assumes no responsibility for any risks, dangers, or liabilities that may result from its use and makes no guarantees as to the quality or accuracy of the underlying data.



HRL
COMPLIANCE
SOLUTIONS

Author: A. Asay

Revision: 0

Date: 10/12/2018



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	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02218	CUB	ED		4	1	4	07	26S	27E	573039	3546725*	2121	35		
C 02438	CUB	ED		4	2	3	12	26S	26E	571015	3546705*	3012	30		
C 02219	CUB	ED		4	4	4	05	26S	27E	575033	3547948*	3820	35		
C 01887	C	ED		4	4	2	15	26S	26E	568614	3545497*	4650	53	31	22
C 02439	CUB	ED		2	4	2	15	26S	26E	568614	3545697*	4692	30		

Average Depth to Water: **31 feet**

Minimum Depth: **31 feet**

Maximum Depth: **31 feet**

Record Count: 5

UTM NAD83 Radius Search (in meters):

Easting (X): 573178.38

Northing (Y): 3544608.21

Radius: 4828

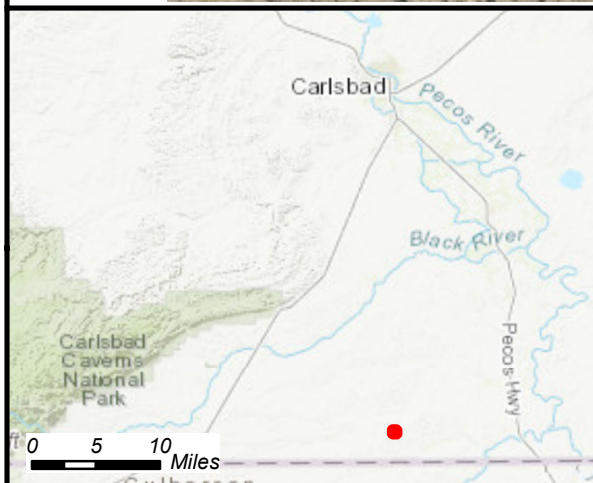
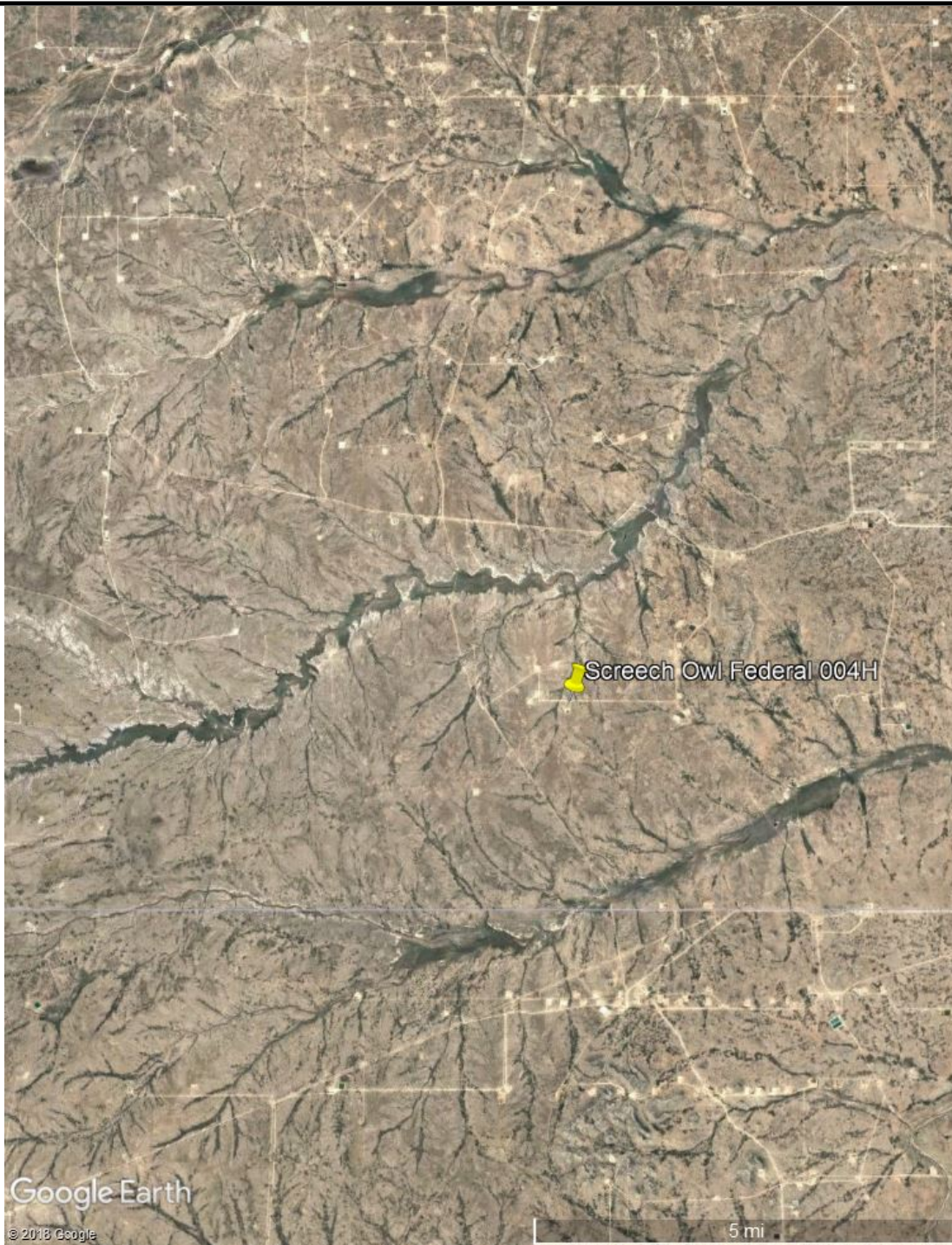
*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



Attachment B:

**Site Location Map
Wetlands Map
Floodplain Map
Karst Area Map**



Sample Location Map

Screech Owl Federal #4

32.035851979 -104.225557034

Sections 18 & 19, Township 26 South, Range 27 East

Mapped Features

DISCLAIMER: This representation and the Geographic Information System (GIS) used to create it are designed as a source of reference and not intended to replace official records and/or legal surveys. HRL assumes no responsibility for any risks, dangers, or liabilities that may result from its use and makes no guarantees as to the quality or accuracy of the underlying data.



**HRL
COMPLIANCE
SOLUTIONS**

Author: A. Asay

Revision: 0

Date: 10/12/2018



U.S. Fish and Wildlife Service






National Wetlands Inventory

Wetlands Map

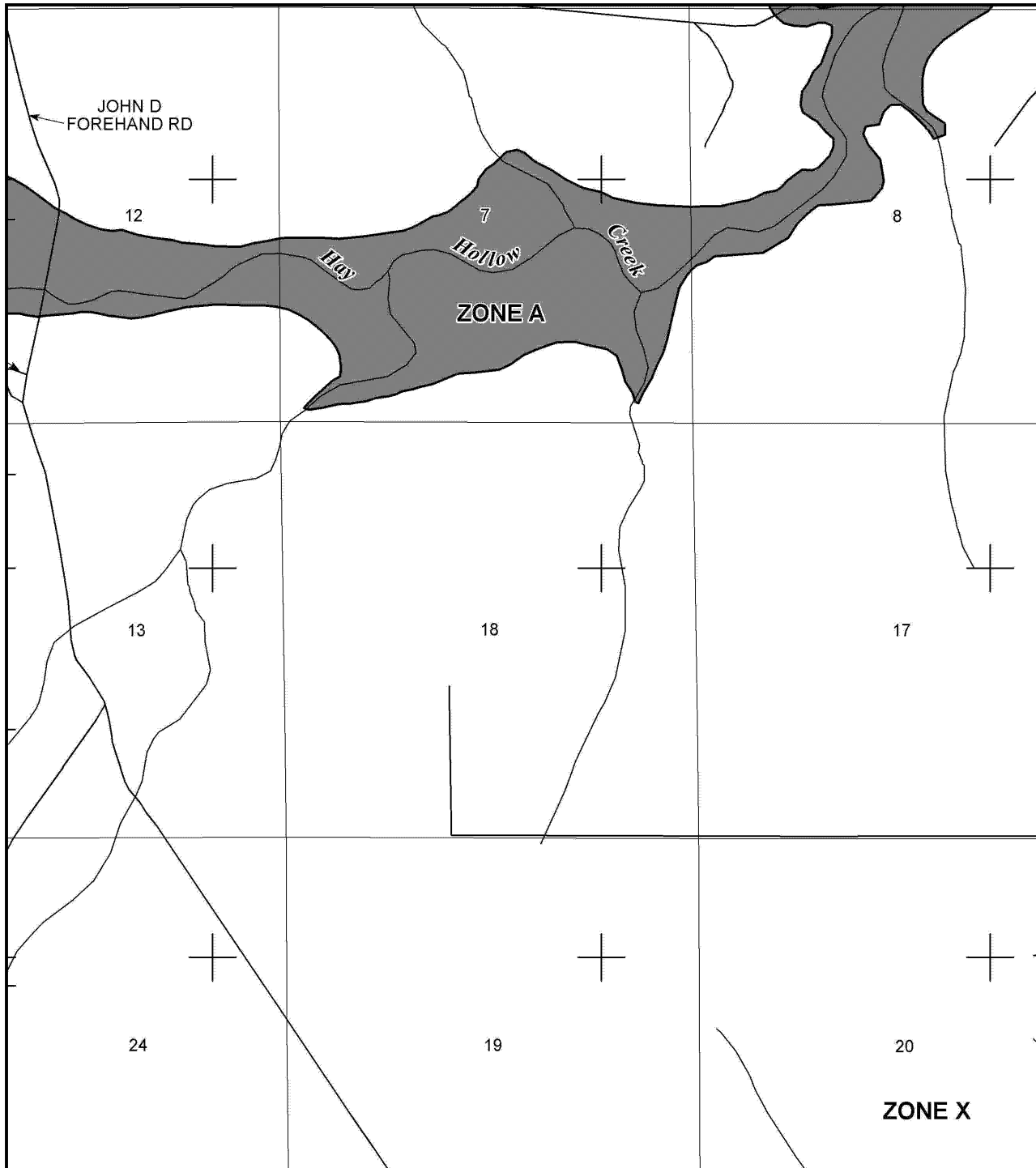


October 31, 2018

Wetlands

	Estuarine and Marine Deepwater		Freshwater Emergent Wetland		Lake
	Estuarine and Marine Wetland		Freshwater Forested/Shrub Wetland		Other
			Freshwater Pond		Riverine

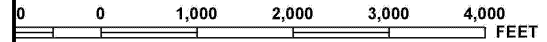
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



ance Program at 1-800-638-6620.



MAP SCALE 1" = 2000'



NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 1825D

FIRM

**FLOOD INSURANCE RATE MAP
EDDY COUNTY,
NEW MEXICO
AND INCORPORATED AREAS**

PANEL 1825 OF 2000

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
EDDY COUNTY, UNINCORPORATED AREAS	350120	1825	D

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



**MAP NUMBER
35015C1825D**

**EFFECTIVE DATE
JUNE 4, 2010**

Federal Emergency Management Agency

ZONE X

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

Jennifer Knowlton

From: Tucker, Shelly <stucker@blm.gov>
Sent: Monday, September 10, 2018 2:59 PM
To: Jennifer Knowlton
Cc: Lupe Carrasco; Rebecca Haskell; itavarez@concho.com; Dakota Neel; Sheldon Hitchcock
Subject: Re: [EXTERNAL] RE: Arc Clearance for Screech Owl Federal #004H

Ms. Knowlton:

Please be aware of the following items prior to any excavation activities.

1. The release point **did not impact any known archaeological area**.
2. The point of release occurred on and off location but is **covered under a previous survey**, no additional surveys will be required.
3. This area is located within a **High cave/karst zone**.
4. This site is cleared of flood zones, active playas, but **near an intermittent stream**, etc.
5. Area is noted to be within **0-3% slope**.
6. Soils are within the **Gypsum land-Cottonwood complex**
7. BLM Seed Mix #4 (Gypsum mix) will be required.
8. The site is **NOT** located in DSL habitat or LPC habitat. No other T&E species noted (animal or vegetative) within this area.
9. Site is **not** located within Potash
10. Site is located within a Special Area of concern: **Southern Gypsum Soil Area**.
11. Site is located within a RMP ACEC: **Gypsum Soils and Chihuahuan Desert Rivers**.
12. Site is located within CRA BLM Special Status Plant Species: **the impacted area will need to be surveyed for Sheer's Beehive Cactus**. A report will need to be filed with the BLM prior to any excavation activities.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Shelly J Tucker

Environmental Protection Specialist
O&G Spill/Release Coordinator

575.234.5905 - Direct
575.361.0084 - Cellular
575.234.6235 - Emergency Spill Number

stucker@blm.gov

Bureau of Land Management

620 E. Greene St
Carlsbad, NM 88220

The **BLM acceptance/approval does not** relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. **In such an event a site does not achieve successful restoration, or future issues with contaminants are encountered, the operator will be asked to address these issues until they are fully mitigated and the location is successfully reclaimed.** In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state or local laws/regulations.

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NOTE: LPC Timing Stipulations - from March 1st through June 15th. Please plan remedial activities accordingly. Check for African Rue...treat (before it gets out of control).

On Tue, Sep 4, 2018 at 3:52 PM Jennifer Knowlton <jknowlton@hrlcomp.com> wrote:

Ms. Tucker,

I am following up on this email requesting the arc clearance. We have this project on hold pending that approval.



If you need any additional information, please feel free to call or email me.

Jennifer Knowlton, PE | Regional Manager-Permian

HRL Compliance Solutions, Inc.

112 S. 6th Street | Artesia, NM 88210

main 575.616.7398 Ex. 414 | mobile 505-238-3588

[Web](#) | [vCard](#) | [Map](#) |  | 



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From: Jennifer Knowlton

Sent: Monday, August 27, 2018 9:51 AM

To: 'stucker@blm.gov' <stucker@blm.gov>

Cc: Lupe Carrasco <lcarrasco@hrlcomp.com>; 'Becky Haskell' <rhaskell@concho.com>; Ike Tavarez <itavarez@concho.com>; 'Dakota Neel' <DNeel2@concho.com>; 'Sheldon Hitchcock' <SLHitchcock@concho.com>

Subject: Arc Clearance for Screech Owl Federal #004H

Ms. Tucker,

To follow up on our phone call this morning, the flowline incident that is being referred to as the Screech Owl Federal #004H is in Unit O, Section 18 Township 26S Range 27E with a location of 32.0352571, -104.2249731. We will stay within existing pipeline ROW for the delineation and characterization of the site. However, because there are areas where the contamination went off of existing right of ways, we need the spill cleared for remediation from an arc standpoint.

If you need any additional information from me, please feel free to call or email.



Thanks,

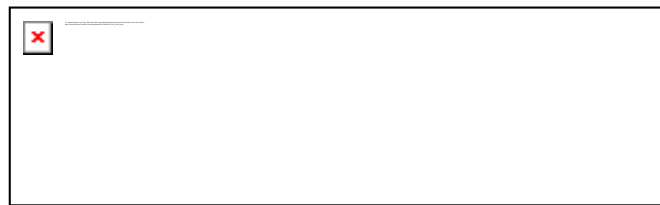
Jennifer Knowlton, PE | Regional Manager-Permian

HRL Compliance Solutions, Inc.

112 S. 6th Street | Artesia, NM 88210

main 575.616.7398 Ex. 414 | mobile 505-238-3588

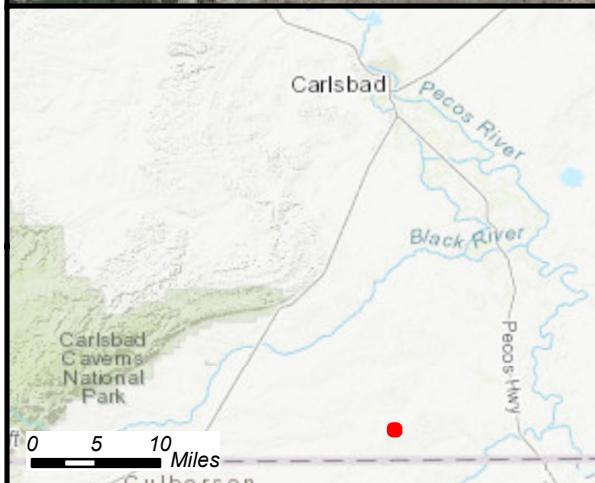
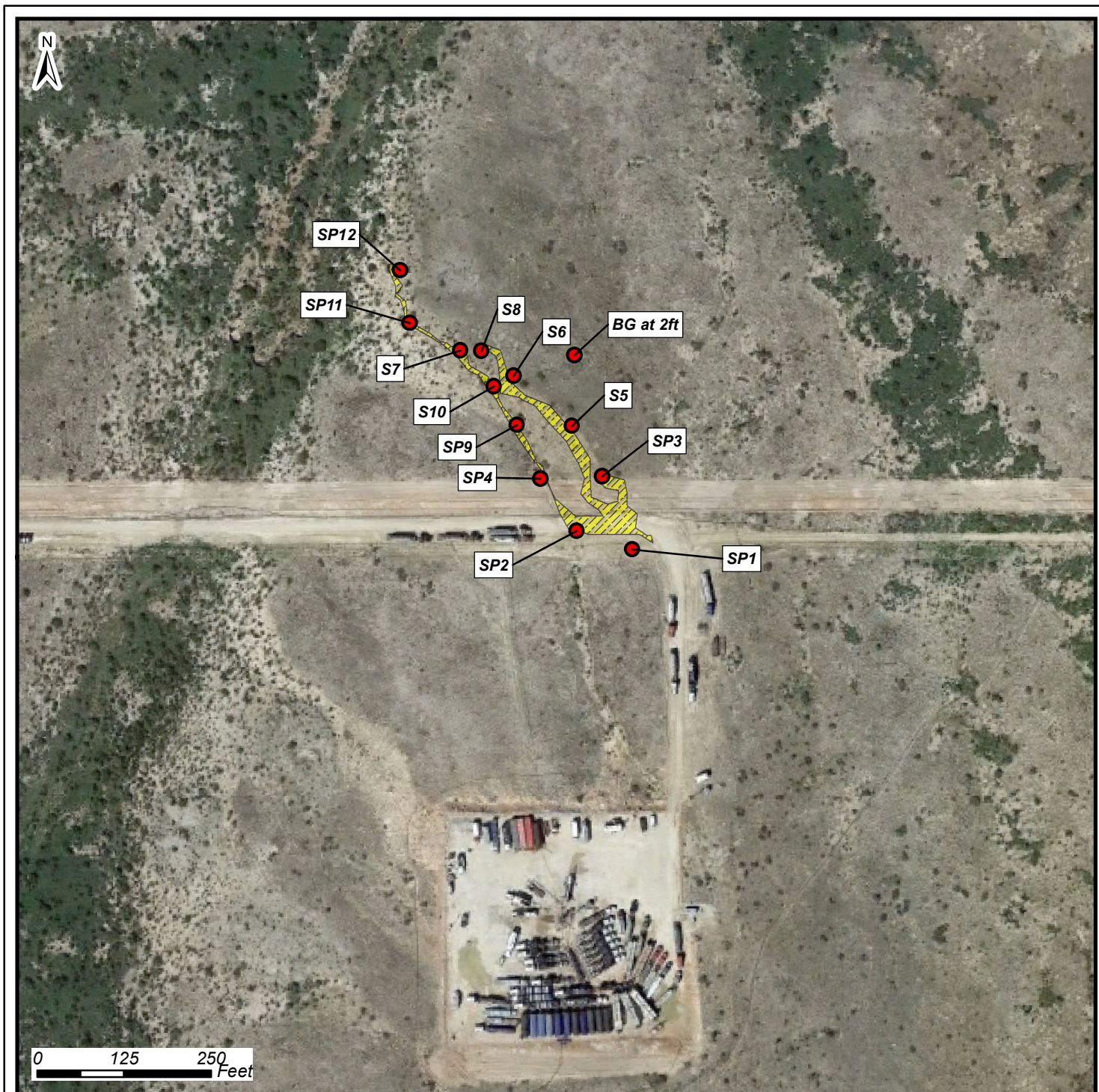
[Web](#) | [vCard](#) | [Map](#) |  



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Attachment C:
Sample Location Map



Sample Location Map

Screech Owl Federal #4

32.035851979 -104.225557034

Sections 18 & 19, Township 26 South, Range 27 East

Mapped Features

● Sample Locations

■ Impacted Area

DISCLAIMER: This representation and the Geographic Information System (GIS) used to create it are designed as a source of reference and not intended to replace official records and/or legal surveys. HRL assumes no responsibility for any risks, dangers, or liabilities that may result from its use and makes no guarantees as to the quality or accuracy of the underlying data.



HRL
COMPLIANCE
SOLUTIONS

Author: A. Asay

Revision: 0

Date: 10/12/2018



Attachment D:
Laboratory Analytical Reports



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 17, 2018

HENRYETTA PRICE

HRL COMPLIANCE SOLUTIONS, INC.

2385 F 1/2 ROAD

GRAND JUNCTION, CO 81505

RE: SCREECH OWL #4

Enclosed are the results of analyses for samples received by the laboratory on 10/11/18 17:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received:	10/11/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	SCREECH OWL #4	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 1 - SURFACE (H802926-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2018	ND	1.94	97.1	2.00	3.85		
Toluene*	<0.050	0.050	10/16/2018	ND	1.92	96.0	2.00	4.86		
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	1.97	98.6	2.00	4.34		
Total Xylenes*	<0.150	0.150	10/16/2018	ND	5.68	94.6	6.00	4.09		
Total BTEX	<0.300	0.300	10/16/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2760	16.0	10/16/2018	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2018	ND	213	106	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/15/2018	ND	209	105	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	10/15/2018	ND					

Surrogate: 1-Chlorooctane 87.6 % 41-142

Surrogate: 1-Chlorooctadecane 79.6 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received: 10/11/2018
Reported: 10/17/2018
Project Name: SCREECH OWL #4
Project Number: NONE GIVEN
Project Location: COG

Sampling Date: 10/11/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 1 - 1' (H802926-02)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2018	ND	1.94	97.1	2.00	3.85		
Toluene*	<0.050	0.050	10/16/2018	ND	1.92	96.0	2.00	4.86		
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	1.97	98.6	2.00	4.34		
Total Xylenes*	<0.150	0.150	10/16/2018	ND	5.68	94.6	6.00	4.09		
Total BTEX	<0.300	0.300	10/16/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	10/16/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2018	ND	213	106	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/15/2018	ND	209	105	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	10/15/2018	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 95.0 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received: 10/11/2018
Reported: 10/17/2018
Project Name: SCREECH OWL #4
Project Number: NONE GIVEN
Project Location: COG

Sampling Date: 10/11/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 1 - 2' (H802926-03)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/16/2018	ND	416	104	400	0.00	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received: 10/11/2018
Reported: 10/17/2018
Project Name: SCREECH OWL #4
Project Number: NONE GIVEN
Project Location: COG

Sampling Date: 10/11/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 2 - SURFACE (H802926-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2018	ND	1.94	97.1	2.00	3.85	
Toluene*	<0.050	0.050	10/16/2018	ND	1.92	96.0	2.00	4.86	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	1.97	98.6	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	5.68	94.6	6.00	4.09	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	10/16/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2018	ND	213	106	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/15/2018	ND	209	105	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	10/15/2018	ND					

Surrogate: 1-Chlorooctane 89.4 % 41-142

Surrogate: 1-Chlorooctadecane 84.0 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 HRL COMPLIANCE SOLUTIONS, INC.
 HENRYETTA PRICE
 2385 F 1/2 ROAD
 GRAND JUNCTION CO, 81505
 Fax To:

 Received: 10/11/2018
 Reported: 10/17/2018
 Project Name: SCREECH OWL #4
 Project Number: NONE GIVEN
 Project Location: COG

 Sampling Date: 10/11/2018
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 - 1' (H802926-05)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2018	ND	1.94	97.1	2.00	3.85	
Toluene*	<0.050	0.050	10/16/2018	ND	1.92	96.0	2.00	4.86	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	1.97	98.6	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	5.68	94.6	6.00	4.09	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/16/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2018	ND	213	106	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/15/2018	ND	209	105	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	10/15/2018	ND					

Surrogate: 1-Chlorooctane 87.7 % 41-142

Surrogate: 1-Chlorooctadecane 82.4 % 37.6-147

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received: 10/11/2018
Reported: 10/17/2018
Project Name: SCREECH OWL #4
Project Number: NONE GIVEN
Project Location: COG

Sampling Date: 10/11/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 2 - 2' (H802926-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	10/16/2018	ND	432	108	400	3.77	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received: 10/11/2018
Reported: 10/17/2018
Project Name: SCREECH OWL #4
Project Number: NONE GIVEN
Project Location: COG

Sampling Date: 10/11/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 3 - SURFACE (H802926-07)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2018	ND	1.94	97.1	2.00	3.85		
Toluene*	<0.050	0.050	10/16/2018	ND	1.92	96.0	2.00	4.86		
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	1.97	98.6	2.00	4.34		
Total Xylenes*	<0.150	0.150	10/16/2018	ND	5.68	94.6	6.00	4.09		
Total BTEX	<0.300	0.300	10/16/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	10/16/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2018	ND	213	106	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/15/2018	ND	209	105	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	10/15/2018	ND					

Surrogate: 1-Chlorooctane 91.0 % 41-142

Surrogate: 1-Chlorooctadecane 85.4 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received: 10/11/2018
Reported: 10/17/2018
Project Name: SCREECH OWL #4
Project Number: NONE GIVEN
Project Location: COG

Sampling Date: 10/11/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 3 - 1' (H802926-08)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2018	ND	1.94	97.1	2.00	3.85		
Toluene*	<0.050	0.050	10/16/2018	ND	1.92	96.0	2.00	4.86		
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	1.97	98.6	2.00	4.34		
Total Xylenes*	<0.150	0.150	10/16/2018	ND	5.68	94.6	6.00	4.09		
Total BTEX	<0.300	0.300	10/16/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	10/16/2018	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2018	ND	213	106	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/15/2018	ND	209	105	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	10/15/2018	ND					

Surrogate: 1-Chlorooctane 96.7 % 41-142

Surrogate: 1-Chlorooctadecane 91.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received: 10/11/2018
Reported: 10/17/2018
Project Name: SCREECH OWL #4
Project Number: NONE GIVEN
Project Location: COG

Sampling Date: 10/11/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 4 - SURFACE (H802926-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2018	ND	1.94	97.1	2.00	3.85	
Toluene*	<0.050	0.050	10/16/2018	ND	1.92	96.0	2.00	4.86	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	1.97	98.6	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	5.68	94.6	6.00	4.09	
Total BTX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	10/16/2018	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2018	ND	213	106	200	2.37	
DRO >C10-C28*	91.0	10.0	10/15/2018	ND	209	105	200	3.60	
EXT DRO >C28-C36	21.4	10.0	10/15/2018	ND					

Surrogate: 1-Chlorooctane 78.3 % 41-142

Surrogate: 1-Chlorooctadecane 79.6 % 37.6-147

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Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received: 10/11/2018
Reported: 10/17/2018
Project Name: SCREECH OWL #4
Project Number: NONE GIVEN
Project Location: COG

Sampling Date: 10/11/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 4 - 1' (H802926-10)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2018	ND	1.94	97.1	2.00	3.85	
Toluene*	<0.050	0.050	10/16/2018	ND	1.92	96.0	2.00	4.86	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	1.97	98.6	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	5.68	94.6	6.00	4.09	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	10/16/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2018	ND	213	106	200	2.37	
DRO >C10-C28*	34.0	10.0	10/15/2018	ND	209	105	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	10/15/2018	ND					

Surrogate: 1-Chlorooctane 92.3 % 41-142

Surrogate: 1-Chlorooctadecane 88.7 % 37.6-147

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Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received: 10/11/2018
Reported: 10/17/2018
Project Name: SCREECH OWL #4
Project Number: NONE GIVEN
Project Location: COG

Sampling Date: 10/11/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 4 - 2' (H802926-11)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	10/16/2018	ND	432	108	400	3.77	

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Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received: 10/11/2018
Reported: 10/17/2018
Project Name: SCREECH OWL #4
Project Number: NONE GIVEN
Project Location: COG

Sampling Date: 10/11/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 5 - SURFACE (H802926-12)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2018	ND	1.94	97.1	2.00	3.85	
Toluene*	<0.050	0.050	10/16/2018	ND	1.92	96.0	2.00	4.86	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	1.97	98.6	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	5.68	94.6	6.00	4.09	
Total BTX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	10/16/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2018	ND	213	106	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/15/2018	ND	209	105	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	10/15/2018	ND					

Surrogate: 1-Chlorooctane 94.1 % 41-142

Surrogate: 1-Chlorooctadecane 87.5 % 37.6-147

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Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received: 10/11/2018
Reported: 10/17/2018
Project Name: SCREECH OWL #4
Project Number: NONE GIVEN
Project Location: COG

Sampling Date: 10/11/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 5 - 1' (H802926-13)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2018	ND	1.94	97.1	2.00	3.85	
Toluene*	<0.050	0.050	10/16/2018	ND	1.92	96.0	2.00	4.86	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	1.97	98.6	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	5.68	94.6	6.00	4.09	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	10/16/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2018	ND	213	106	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/15/2018	ND	209	105	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	10/15/2018	ND					

Surrogate: 1-Chlorooctane 99.7 % 41-142

Surrogate: 1-Chlorooctadecane 93.9 % 37.6-147

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Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received: 10/11/2018
Reported: 10/17/2018
Project Name: SCREECH OWL #4
Project Number: NONE GIVEN
Project Location: COG

Sampling Date: 10/11/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 5 - 2' (H802926-14)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	10/16/2018	ND	432	108	400	3.77	

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Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received: 10/11/2018
Reported: 10/17/2018
Project Name: SCREECH OWL #4
Project Number: NONE GIVEN
Project Location: COG

Sampling Date: 10/11/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 6 - SURFACE (H802926-15)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/15/2018	ND	2.22	111	2.00	2.25		
Toluene*	<0.050	0.050	10/15/2018	ND	2.19	110	2.00	2.07		
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	2.22	111	2.00	1.53		
Total Xylenes*	<0.150	0.150	10/15/2018	ND	6.39	107	6.00	2.01		
Total BTX	<0.300	0.300	10/15/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	10/16/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2018	ND	213	106	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/15/2018	ND	209	105	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	10/15/2018	ND					

Surrogate: 1-Chlorooctane 83.0 % 41-142

Surrogate: 1-Chlorooctadecane 75.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received: 10/11/2018
Reported: 10/17/2018
Project Name: SCREECH OWL #4
Project Number: NONE GIVEN
Project Location: COG

Sampling Date: 10/11/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 6 - 1' (H802926-16)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2018	ND	2.22	111	2.00	2.25	
Toluene*	<0.050	0.050	10/15/2018	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	2.22	111	2.00	1.53	
Total Xylenes*	<0.150	0.150	10/15/2018	ND	6.39	107	6.00	2.01	
Total BTEX	<0.300	0.300	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2960	16.0	10/16/2018	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2018	ND	213	106	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/15/2018	ND	209	105	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	10/15/2018	ND					

Surrogate: 1-Chlorooctane 97.0 % 41-142

Surrogate: 1-Chlorooctadecane 91.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received: 10/11/2018
Reported: 10/17/2018
Project Name: SCREECH OWL #4
Project Number: NONE GIVEN
Project Location: COG

Sampling Date: 10/11/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 6 - 2' (H802926-17)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	10/16/2018	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received: 10/11/2018
Reported: 10/17/2018
Project Name: SCREECH OWL #4
Project Number: NONE GIVEN
Project Location: COG

Sampling Date: 10/11/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 7 - SURFACE (H802926-18)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2018	ND	2.22	111	2.00	2.25	
Toluene*	<0.050	0.050	10/15/2018	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	2.22	111	2.00	1.53	
Total Xylenes*	<0.150	0.150	10/15/2018	ND	6.39	107	6.00	2.01	
Total BTEX	<0.300	0.300	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/16/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2018	ND	213	106	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/15/2018	ND	209	105	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	10/15/2018	ND					

Surrogate: 1-Chlorooctane 96.2 % 41-142

Surrogate: 1-Chlorooctadecane 93.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 HRL COMPLIANCE SOLUTIONS, INC.
 HENRYETTA PRICE
 2385 F 1/2 ROAD
 GRAND JUNCTION CO, 81505
 Fax To:

Received:	10/11/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	SCREECH OWL #4	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 7 - 1' (H802926-19)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/15/2018	ND	2.22	111	2.00	2.25		
Toluene*	<0.050	0.050	10/15/2018	ND	2.19	110	2.00	2.07		
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	2.22	111	2.00	1.53		
Total Xylenes*	<0.150	0.150	10/15/2018	ND	6.39	107	6.00	2.01		
Total BTEX	<0.300	0.300	10/15/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/16/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2018	ND	213	106	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/15/2018	ND	209	105	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	10/15/2018	ND					

Surrogate: 1-Chlorooctane 90.5 % 41-142

Surrogate: 1-Chlorooctadecane 86.0 % 37.6-147

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Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received: 10/11/2018
Reported: 10/17/2018
Project Name: SCREECH OWL #4
Project Number: NONE GIVEN
Project Location: COG

Sampling Date: 10/11/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 7 - 2' (H802926-20)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/16/2018	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received: 10/11/2018
Reported: 10/17/2018
Project Name: SCREECH OWL #4
Project Number: NONE GIVEN
Project Location: COG

Sampling Date: 10/11/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 8 - SURFACE (H802926-21)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2018	ND	2.22	111	2.00	2.25	
Toluene*	<0.050	0.050	10/15/2018	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	2.22	111	2.00	1.53	
Total Xylenes*	<0.150	0.150	10/15/2018	ND	6.39	107	6.00	2.01	
Total BTEX	<0.300	0.300	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/16/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2018	ND	213	106	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/15/2018	ND	209	105	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	10/15/2018	ND					

Surrogate: 1-Chlorooctane 93.5 % 41-142

Surrogate: 1-Chlorooctadecane 89.8 % 37.6-147

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Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received: 10/11/2018
Reported: 10/17/2018
Project Name: SCREECH OWL #4
Project Number: NONE GIVEN
Project Location: COG

Sampling Date: 10/11/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 8 - 1' (H802926-22)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2018	ND	2.22	111	2.00	2.25	
Toluene*	<0.050	0.050	10/15/2018	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	2.22	111	2.00	1.53	
Total Xylenes*	<0.150	0.150	10/15/2018	ND	6.39	107	6.00	2.01	
Total BTX	<0.300	0.300	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	10/16/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2018	ND	213	106	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/15/2018	ND	209	105	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	10/15/2018	ND					

Surrogate: 1-Chlorooctane 94.7 % 41-142

Surrogate: 1-Chlorooctadecane 90.4 % 37.6-147

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Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received: 10/11/2018
Reported: 10/17/2018
Project Name: SCREECH OWL #4
Project Number: NONE GIVEN
Project Location: COG

Sampling Date: 10/11/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 8 - 2' (H802926-23)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	10/16/2018	ND	432	108	400	3.77	

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Analytical Results For:

 HRL COMPLIANCE SOLUTIONS, INC.
 HENRYETTA PRICE
 2385 F 1/2 ROAD
 GRAND JUNCTION CO, 81505
 Fax To:

Received:	10/11/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	SCREECH OWL #4	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 9 - SURFACE (H802926-24)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/15/2018	ND	2.22	111	2.00	2.25		
Toluene*	<0.050	0.050	10/15/2018	ND	2.19	110	2.00	2.07		
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	2.22	111	2.00	1.53		
Total Xylenes*	<0.150	0.150	10/15/2018	ND	6.39	107	6.00	2.01		
Total BTEx	<0.300	0.300	10/15/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/16/2018	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2018	ND	202	101	200	11.1	
DRO >C10-C28*	<10.0	10.0	10/15/2018	ND	211	106	200	7.80	
EXT DRO >C28-C36	<10.0	10.0	10/15/2018	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 92.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received:	10/11/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	SCREECH OWL #4	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 9 - 1' (H802926-25)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/15/2018	ND	2.22	111	2.00	2.25		
Toluene*	<0.050	0.050	10/15/2018	ND	2.19	110	2.00	2.07		
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	2.22	111	2.00	1.53		
Total Xylenes*	<0.150	0.150	10/15/2018	ND	6.39	107	6.00	2.01		
Total BTEX	<0.300	0.300	10/15/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	10/16/2018	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2018	ND	202	101	200	11.1	
DRO >C10-C28*	<10.0	10.0	10/15/2018	ND	211	106	200	7.80	
EXT DRO >C28-C36	<10.0	10.0	10/15/2018	ND					

Surrogate: 1-Chlorooctane 95.7 % 41-142

Surrogate: 1-Chlorooctadecane 84.3 % 37.6-147

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Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received: 10/11/2018
Reported: 10/17/2018
Project Name: SCREECH OWL #4
Project Number: NONE GIVEN
Project Location: COG

Sampling Date: 10/11/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 9 - 2' (H802926-26)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	10/16/2018	ND	416	104	400	3.77	

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Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received: 10/11/2018
Reported: 10/17/2018
Project Name: SCREECH OWL #4
Project Number: NONE GIVEN
Project Location: COG

Sampling Date: 10/11/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 10 - SURFACE (H802926-27)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2018	ND	2.22	111	2.00	2.25	
Toluene*	<0.050	0.050	10/15/2018	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	2.22	111	2.00	1.53	
Total Xylenes*	<0.150	0.150	10/15/2018	ND	6.39	107	6.00	2.01	
Total BTEX	<0.300	0.300	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/16/2018	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2018	ND	202	101	200	11.1	
DRO >C10-C28*	<10.0	10.0	10/15/2018	ND	211	106	200	7.80	
EXT DRO >C28-C36	<10.0	10.0	10/15/2018	ND					

Surrogate: 1-Chlorooctane 96.0 % 41-142

Surrogate: 1-Chlorooctadecane 87.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received: 10/11/2018
Reported: 10/17/2018
Project Name: SCREECH OWL #4
Project Number: NONE GIVEN
Project Location: COG

Sampling Date: 10/11/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 10 - 1' (H802926-28)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2018	ND	2.27	114	2.00	0.142		
Toluene*	<0.050	0.050	10/16/2018	ND	2.14	107	2.00	0.735		
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.11	106	2.00	0.142		
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.33	106	6.00	0.151		
Total BTEX	<0.300	0.300	10/16/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4200	16.0	10/16/2018	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2018	ND	202	101	200	11.1	
DRO >C10-C28*	<10.0	10.0	10/15/2018	ND	211	106	200	7.80	
EXT DRO >C28-C36	<10.0	10.0	10/15/2018	ND					

Surrogate: 1-Chlorooctane 96.7 % 41-142

Surrogate: 1-Chlorooctadecane 88.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received: 10/11/2018
Reported: 10/17/2018
Project Name: SCREECH OWL #4
Project Number: NONE GIVEN
Project Location: COG

Sampling Date: 10/11/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 10 - 2' (H802926-29)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	10/16/2018	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received:	10/11/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	SCREECH OWL #4	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 11 - SURFACE (H802926-30)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2018	ND	2.27	114	2.00	0.142	
Toluene*	<0.050	0.050	10/16/2018	ND	2.14	107	2.00	0.735	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.11	106	2.00	0.142	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.33	106	6.00	0.151	
Total BTX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/16/2018	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2018	ND	202	101	200	11.1	
DRO >C10-C28*	<10.0	10.0	10/15/2018	ND	211	106	200	7.80	
EXT DRO >C28-C36	<10.0	10.0	10/15/2018	ND					

Surrogate: 1-Chlorooctane 95.2 % 41-142

Surrogate: 1-Chlorooctadecane 91.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received: 10/11/2018
Reported: 10/17/2018
Project Name: SCREECH OWL #4
Project Number: NONE GIVEN
Project Location: COG

Sampling Date: 10/11/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 11 - 1' (H802926-31)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2018	ND	2.27	114	2.00	0.142	
Toluene*	<0.050	0.050	10/16/2018	ND	2.14	107	2.00	0.735	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.11	106	2.00	0.142	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.33	106	6.00	0.151	
Total BTX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/16/2018	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2018	ND	202	101	200	11.1	
DRO >C10-C28*	<10.0	10.0	10/15/2018	ND	211	106	200	7.80	
EXT DRO >C28-C36	<10.0	10.0	10/15/2018	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 97.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received: 10/11/2018
Reported: 10/17/2018
Project Name: SCREECH OWL #4
Project Number: NONE GIVEN
Project Location: COG

Sampling Date: 10/11/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 11 - 2' (H802926-32)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3040	16.0	10/16/2018	ND	416	104	400	3.77		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received:	10/11/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	SCREECH OWL #4	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: SP 12 - SURFACE (H802926-33)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2018	ND	2.27	114	2.00	0.142		
Toluene*	<0.050	0.050	10/16/2018	ND	2.14	107	2.00	0.735		
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.11	106	2.00	0.142		
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.33	106	6.00	0.151		
Total BTEx	<0.300	0.300	10/16/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/16/2018	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2018	ND	202	101	200	11.1	
DRO >C10-C28*	<10.0	10.0	10/15/2018	ND	211	106	200	7.80	
EXT DRO >C28-C36	<10.0	10.0	10/15/2018	ND					

Surrogate: 1-Chlorooctane 95.7 % 41-142

Surrogate: 1-Chlorooctadecane 90.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received: 10/11/2018
Reported: 10/17/2018
Project Name: SCREECH OWL #4
Project Number: NONE GIVEN
Project Location: COG

Sampling Date: 10/11/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 12 - 1' (H802926-34)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2018	ND	2.27	114	2.00	0.142	
Toluene*	<0.050	0.050	10/16/2018	ND	2.14	107	2.00	0.735	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.11	106	2.00	0.142	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.33	106	6.00	0.151	
Total BTEx	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	10/16/2018	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2018	ND	202	101	200	11.1	
DRO >C10-C28*	<10.0	10.0	10/15/2018	ND	211	106	200	7.80	
EXT DRO >C28-C36	<10.0	10.0	10/15/2018	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 95.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received: 10/11/2018
Reported: 10/17/2018
Project Name: SCREECH OWL #4
Project Number: NONE GIVEN
Project Location: COG

Sampling Date: 10/11/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 12 - 2' (H802926-35)

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	10/16/2018	ND	416	104	400	3.77		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

HRL COMPLIANCE SOLUTIONS, INC.
HENRYETTA PRICE
2385 F 1/2 ROAD
GRAND JUNCTION CO, 81505
Fax To:

Received:	10/11/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	SCREECH OWL #4	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: BG - 2' (H802926-36)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2018	ND	2.27	114	2.00	0.142	
Toluene*	<0.050	0.050	10/16/2018	ND	2.14	107	2.00	0.735	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.11	106	2.00	0.142	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.33	106	6.00	0.151	
Total BTEx	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/16/2018	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2018	ND	202	101	200	11.1	
DRO >C10-C28*	<10.0	10.0	10/15/2018	ND	211	106	200	7.80	
EXT DRO >C28-C36	<10.0	10.0	10/15/2018	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

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(575) 393-2326 FAX (575) 393-2476

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

+ Cardinal cannot accept verbal changes. Placed for written changes to (E7E) 202-2226

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

+ Cardinal cannot accept verbal change. Place for written change in (575) 202-2226

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

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