JA9YI-200302-C-1410

Remediation Summary and Deferral Request

February 19, 2020

Sly Hawk State #001

Prepared For:

COG Operating, LLC.
600 W Illinois Avenue
Midland, TX 79701

Prepared By:

TRC Environmental Corporation
10 Desta Dr. STE 150E
Midland, TX 79705

Prepared by:
Jared Stoffel, P.G.
Project Manager

Reviewed and Approved by:
Curt Stanley
Senior Project Manager

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1.0 Introduction and Background Information

TRC Environmental Corporation (TRC), on behalf of COG Operating, LLC (COG), has prepared this *Remediation Summary and Deferral Request* for the Release at the Site known as the Sly Hawk State #001 (the Release Site). The legal description of the Site is Unit Letter "H", Section 3, Township 25 South, Range 28 East, in Eddy County, New Mexico. The subject property is owned by the State of New Mexico and administered by New Mexico State Land Office (NMSLO). The GPS coordinates for the Site are N 32.15921°, W 104.06956°. A topographical map is provided as **Figure 1**. Photographs are provided in the photolog as **Appendix A**.

On November 3, 2019, COG discovered a crude oil and produced water release had occurred at the Release Site. The Release was attributed to a filter pot left in the wrong position, impacting the inside of the tank battery and the adjacent pastureland. On the discovery date, COG notified the New Mexico Oil Conservation Division (NMOCD) and the New Mexico State Land Office (NMSLO) of the Release. The Release was assigned an NMOCD Reference number of NRM2001534588. On November 19, 2019, the initial Release Notification and Corrective Action (Form C-141) was submitted to the NMOCD. The Form C-141 indicated one (1) barrel (bbl) of crude oil and eight (8) barrels (bbls) of produced water was released. During initial response activities, a vacuum truck was dispatched to recover all freestanding fluids. According to the initial C-141, no crude oil or produced water was recovered during initial response activities. The Release affected an area measuring approximately 1,350 square feet (sq. ft.). A copy of the submitted Form C-141 for the Release is provided in **Appendix B**.

A groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) did not identify any registered water wells in Section 17, Township 25 South, Range 28 East. A radius search conducted on the NMOSE website indicated there were no registered water wells within a 0.5-mile radius of the site. There are two (2) water wells registered within 1.5 miles of the site and the average depth to groundwater was listed at 35 feet below ground surface (bgs). The NMOSE search results are included in **Appendix C**. No water wells were observed within one-thousand (1,000) feet of the Site. No surface water was observed within one-thousand (1,000) feet of the Release. An aerial map of the site location is provided as **Figure 2**.

Based on the depth to groundwater at the Release Site, the NMOCD *Closure Criteria for Soils Impacted by a Release* is the most stringent closure criteria listed. In addition, the Release Site is located in the 'high karst' area as outlined in the BLM publicly available Karst Potential Map, provided as **Figure 3**. Subsequently, COG will utilize the most stringent NMOCD Closure Criteria for Soils Impacted by a Release for the Release Site as follows:

- Benzene – 10 mg/kg
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) – 50 mg/kg
- Total Petroleum Hydrocarbons (TPH) –100 mg/kg
- Chloride – 600 mg/kg

2.0 Summary of Soil Remediation Activities

On December 3, 2019, remediation activities commenced at the Release Site. The excavation began in the north section of the impacted area within the earthen berm and continued to the east and south. The area within the berm was excavated to approximately two (2) feet bgs, and the area outside the berm was excavated to approximately three (3) feet bgs. Excavated soil was stockpiled on polyurethane liners pending final disposition at an NMOCD-approved disposal facility.

On December 3, 2019, two (2) five-point composite floor confirmation samples (FL-A1-2' and FL-B1-3') and five (5) five-point composite sidewall confirmation sample (ESW-A1-1', SSW-A1-1', SSW-B1-1', NSW-B1-1', and ESW-B1-1') were collected from the excavated area. Soil samples were submitted to Xenco Laboratories in Midland, Texas, for chloride, TPH and BTEX analyses. Analytical data for the collected confirmation soil samples indicated TPH and BTEX concentrations were below the NMOCD regulatory guidelines for each constituent, with the exception of ESW-B1-1', which exceeded the NMOCD regulatory guideline for TPH. In addition, three (3) confirmation soil samples (FL-A1-2', ESW-A1-1', and SSW-A1-1') exceeded the NMOCD regulatory guidelines for chloride concentrations.

Soil samples FL-A1-2' and ESW-A1-1', which characterize the floor of the excavation inside the berm and the sidewall immediately adjacent to the tanks. Impacted soil represented by soil samples FL-A1-2' and ESW-A1-1' was removed to the maximum extent practicable within the facility. In order to delineate the impact for deferral within the facility, one (1) test trench was advanced within the excavation to a depth of approximately five (5) feet bgs. Three (3) delineation soil samples (TT-A1-3', TT-A1-4', and TT-A1-5') were collected and submitted to the laboratory for TPH, BTEX, and chloride analyses. A review of laboratory analytical results indicated delineation soil samples collected within the bermed facility exhibited TPH and BTEX concentrations below the NMOCD regulatory guidelines. The chloride concentrations exhibited by the delineation soil samples were above the NMOCD regulatory guidelines, with the exception of TT-A1-5', which exhibited chloride concentrations below the NMOCD regulatory guidelines. Due to the proximity to production equipment within the bermed facility, this area was not excavated further vertically to prevent potential de-stabilization of the active equipment and was not excavated further laterally to the east, as the production tanks prevented access to the eastern extent.

Following a review of the analytical results from soil samples collected on December 3rd, the excavation in the area represented by soil sample SSW-A1-1' was excavated to the south to connect excavated areas inside and outside the bermed facility and create a continuous excavation. In addition, the excavation in the area represented by ESW-B1-1', outside the bermed facility, was extended to the east.

On December 5, 2019, four (4) five-point composite sidewall confirmation samples (NSW-A1-0.5', WSW-A1-0.5', ESW-B1-1'R, and WSW-B1-1') were collected from the excavated area. Soil samples collected on December 5th were submitted to Xenco Laboratories in Midland, Texas, for chloride, TPH and BTEX analyses. Analytical data for the collected soil samples indicated TPH, BTEX, and chloride concentrations were below the NMOCD regulatory guidelines for each constituent.

On December 5, 2019, the impacted soil was transported under manifest to the R360 Red Bluff Facility and the Site was returned to grade with locally sourced, non-impacted backfill material. Confirmation soil sample locations are depicted in **Figure 4**. A summary of the analytical data is shown in **Table 1**. Laboratory analytical reports are provided in **Appendix D**.

3.0 Deferral Request

Remediation activities were conducted in accordance with NMCOD regulatory guidelines. Laboratory analytical results from excavation confirmation soil samples indicated TPH, BTEX, and/or chloride concentrations were below the NMOCD regulatory guidelines in the submitted confirmation soil samples, with the exception of soil samples FL-A1-2', ESW-A1-1', TT-A1-3', and TT-A1-4'. The soil samples which exhibited NMOCD regulatory guideline exceedances are confined within the active production battery and have been fully vertically delineated. The eastern extent of the impact within the facility is defined by the adjacent tank. COG respectfully requests deferral of the area within the berm until time of abandonment (TOA), at which time the impact will be removed in accordance with NMOCD regulatory guidelines. Based on laboratory analytical results and field activities conducted to date, TRC recommends COG provide copies of this Remediation Summary and Site Deferral Request to the NMOCD and NMSLO and request deferral status for the Sly Hawk State #001 until time of abandonment.

4.0 Limitation

TRC has prepared this Remediation Summary and Site Deferral Request to the best of its ability. No other warranty, expressed or implied, is made or intended.

TRC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. TRC has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. TRC has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. TRC also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of COG Operating, LLC. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of TRC and/or COG Operating, LLC.

5.0 Distribution

Copy 1: Mike Bratcher
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 2
811 S. First Street
Artesia, NM 88210

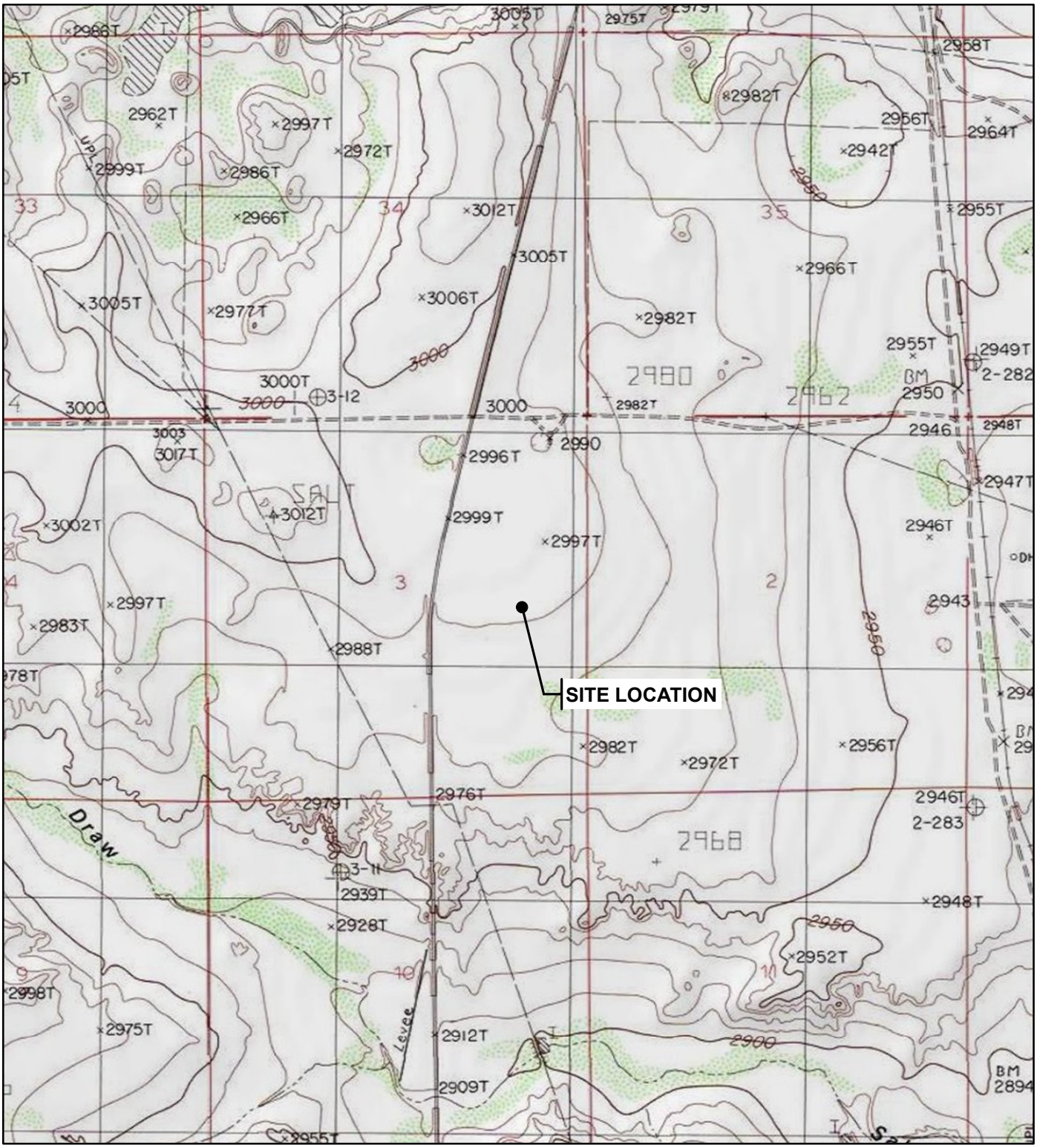
Copy 2: Ryan Mann
New Mexico State Land Office
2827 N. Dal Paso Suite 117
Hobbs, NM 88240

Copy 3: Ike Tavarez
COG Operating, LLC
600 W. Illinois Avenue
Midland, Texas 79701

Copy4: TRC Environmental Corporation
10 Desta Dr STE 150E
Midland, TX 79705

TABLE 1
Summary of Sampling Analytical Results
Concentrations of Benzene, BTEX, TPH, and Chloride in Soil

Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					E 300
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C_6-C_{10} (mg/kg)	DRO C_{10}-C_{28} (mg/kg)	GRO + DRO C_6-C_{28} (mg/kg)	ORO C_{28}-C_{35} (mg/kg)	TPH C_6-C_{35} (mg/kg)	Chloride (mg/kg)
FL-A1-2'	12/3/19	2'	Deferred	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	**1,030**
TT-A1-3'	12/3/19	3'	Deferred	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	**659**
TT-A1-4'	12/3/19	4'	Deferred	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	**727**
TT-A1-5'	12/3/19	5'	In-Situ	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	292
ESW-A1-1'	12/3/19	1'	Deferred	<0.00200	<0.00200	<50.0	55.3	55.3	<50.0	55.3	**2,190**
SSW-A1-1'	12/3/19	1'	Excavated	<0.00200	<0.00200	<50.0	70.2	70.2	<50.0	70.2	**1,370**
NSW-A1-0.5'	12/5/19	0.5'	In-Situ	<0.00198	0.0980	<49.8	<49.8	<49.8	<49.8	<49.8	351
WSW-A1-0.5'	12/5/19	0.5'	In-Situ	<0.00201	<0.00201	<50.0	60.4	60.4	<50.0	60.4	268
FL-B1-3'	12/3/19	3'	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	199
SSW-B1-1'	12/3/19	1'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	269
NSW-B1-1'	12/3/19	1'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	234
ESW-B1-1'	12/3/19	1'	Excavated	<0.00198	<0.00198	<49.9	108	108	<49.9	**108**	534
ESW-B1-1' R	12/5/19	1'	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	89.2
WSW-B1-1'	12/5/19	1'	In-Situ	<0.00202	0.00869	<50.0	<50.0	<50.0	<50.0	<50.0	224
NMOCD Closure Criteria				**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**



BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES.

N

1 " = 2,000 '
1:24,000

0 2,000 FEET

TRC
505 East Huntland Drive
Suite #250
Austin, TX 78752
Phone: 512.329.6080
TRC - GIS

PROJECT:

COG SLY HAWK STATE #001
EDDY COUNTY, NM

TITLE:

SITE LOCATION TOPOGRAPHIC MAP

DRAWN BY:	M. JAGOE
CHECKED BY:	J. STOFFEL
APPROVED BY:	J. STOFFEL
DATE:	JANUARY 2020
PROJ. NO.:	373057
FILE:	373057_1.mxd

FIGURE 1

S:\1-PROJECTS\ConchoResources\373057_Sly_Hawk\MXD\373057_1.mxd -- Saved By: MJAGOE on 1/15/2020, 14:50:54 PM

TRC - GIS

Coordinate System: NAD 1983 2011 StatePlane New Mexico East FIPS 3001 Ft US (Foot US)
Map Rotation: 0

LEGEND

AREA INSIDE 100 YEAR FLOODPLAIN

SOURCE: AERIAL IMAGERY - GOOGLE AND THEIR DATA PARTNERS (3/12/2016)
FLOODPLAIN - FEMA FLOOD MAP SERVICE CENTER (MSC)

N

0 1,000 2,000 Feet

1 " = 2,000 '
1:24,000

PROJECT:
COG SLY HAWK STATE #001
EDDY COUNTY, NM

TITLE:
FLOODPLAIN MAP

DRAWN BY:	M. JAGOE	PROJ NO.:	373057
CHECKED BY:	J. STOFFEL		
APPROVED BY:	J. STOFFEL		**FIGURE 2**
DATE:	JANUARY 2020		

505 East Huntland Drive, Suite 250
Austin, TX 78752
Phone: 512.329.6080
www.trcsolutions.com

FILE NO.: 373057_2.mxd

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Path: S:\1-PROJECTS\ConchoResources\373057_Sly_Hawk\MXD\373057_2.mxd

TRC - GIS

SITE LOCATION

LEGEND

- LOW KARST POTENTIAL
- MEDIUM KARST POTENTIAL
- HIGH KARST POTENTIAL

SOURCE: KARST DATA FROM NEW MEXICO BUREAU OF LAND MANAGEMENT

N

0 10,000 Feet

1 " = 10,000 '

1:120,000

PROJECT:

COG SLY HAWK STATE #001
EDDY COUNTY, NM

TITLE:

KARST POTENTIAL MAP

DRAWN BY:	M. JAGOE	PROJ NO.:	373057
CHECKED BY:	J. STOFFEL		
APPROVED BY:	J. STOFFEL		**FIGURE 3**
DATE:	JANUARY 2020		

505 East Huntland Drive, Suite 250
Austin, TX 78752
Phone: 512.329.6080
www.trcsolutions.com

FILE NO.: 373057_3.mxd

Coordinate System: NAD 1983 2011 StatePlane New Mexico East FIPS 3001 Ft US (Foot US)
Map Rotation: 0

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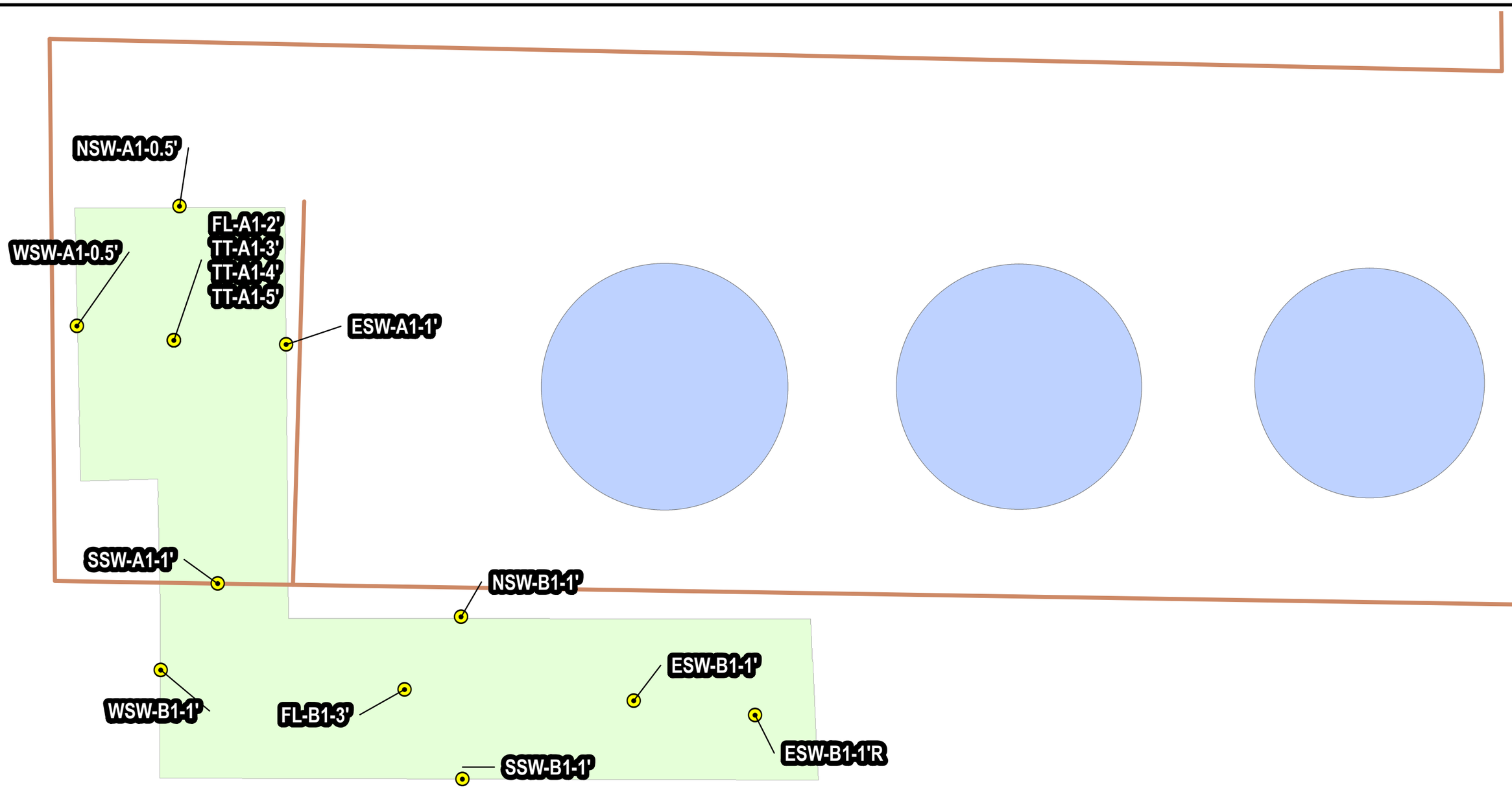

LEGEND

- CONFIRMATION SOIL SAMPLE LOCATIONS
- FIREWALL
- TANK
- EXCAVATION

SOURCE: AERIAL IMAGERY - GOOGLE AND THEIR DATA PARTNERS (3/12/2016)

N

0 2.5 5 Feet

1 " = 5 '

1:65

PROJECT:

COG SLY HAWK STATE #001
EDDY COUNTY, NM

TITLE:

SITE AND CONFIRMATION SAMPLE LOCATION MAP

DRAWN BY:	M. JAGOE	PROJ NO.:	373057
CHECKED BY:	J. STOFFEL		
APPROVED BY:	J. STOFFEL	**FIGURE 4**	
DATE:	JANUARY 2020		

TRC
505 East Huntland Drive, Suite 250
Austin, TX 78752
Phone: 512.329.6080
www.trcsolutions.com

FILE NO.: 373057_4.mxd

Plot Date: 1/17/2020, 10:51:07 AM by MJAGOE -- LAYOUT: ANSI B (11"x17")
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Coordinate System: NAD 1983 2011 StatePlane New Mexico East FIPS 3001 Ft US (Foot US)
Map Rotation: 0

TRC - GIS

Appendix A: Photographic Documentation

COG- Sly Hawk State #001
Date: 2/19/2020

Photographic Documentation

Photograph No. 1 **Date:** **11/18/2019** **Direction:** **South** **Description:** **View of the Release area prior to remediation.**	
Photograph No. 2 **Date:** **12/5/2019** **Direction:** **Southeast** **Description:** **View of excavated area A1.**	

COG- Sly Hawk State #001
Date: 2/19/2020

Photographic Documentation

Photograph No. 3 **Date:** **12/5/2019** **Direction:** **Northwest** **Description:** **View of excavated area B1.**	
Photograph No. 4 **Date:** **12/6/2019** **Direction:** **North** **Description:** **View of excavated area A1.**	

COG- Sly Hawk State #001
Date: 2/19/2020

Photographic Documentation

Photograph No. 5 **Date:** **12/6/2019** **Direction:** **East** **Description:** **View of excavated area B1.**	

Appendix B: Release Notification and Corrective Action (Form 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	COG Operating, LLC	OGRID	229137
Contact Name	Jennifer Knowlton	Contact Telephone	(575) 748-1570
Contact email	JKnowlton@concho.com	Incident # *(assigned by OCD)*	
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.15921 Longitude -104.06956
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Sly Hawk State #001	Site Type	Tank Battery
Date Release Discovered	November 3, 2019	API# *(if applicable)*	30-015-33664

Unit Letter	Section	Township	Range	County
H	03	25S	28E	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) 1	Volume Recovered (bbls) 0
■ Produced Water	Volume Released (bbls) 8	Volume Recovered (bbls) 0
	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

The release was caused by a filter pot left in the wrong position.
The release was on a dirt brim. A vacuum truck was dispatched to remove all freestanding fluids.
Concho will evaluate the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

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:

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: Brittany N. Esparza Title: HSE Administrative Assistant

Signature: Brittany Esparza Date: 11/19/2019

email: besparza@concho.com Telephone: (432) 221-0398

OCD Only

Received by: _____ Date: _____

****** LIQUID SPILLS - VOLUME CALCULATIONS ******

Location of spill: COG -Sly Hawk State #1 TB **Date of Spill:** 3-Nov-2019

If the leak/spill is associated with production equipment, i.e. - wellhead, stuffing box, flowline, tank battery, production vessel, transfer pump, or storage tank **place an "X" here:** X

Input Data:

	OIL:	WATER:
If spill volumes from measurement, i.e. metering, tank volumes, etc. are known enter the volumes here:	0.0 BBL	0.0 BBL

If "known" spill volumes are given, input data for the following "Area Calculations" is optional. The above will override the calculated volumes.

Total Area Calculations

Total Surface Area	width		length		wet soil depth	oil (%)
Rectangle Area #1	30 ft		30 ft	X	3.75 in	10%
Rectangle Area #2	30 ft	X	15 ft	X	2.50 in	10%
Rectangle Area #3	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%

Standing Liquid Calculations

Standing Liquid Area	width		length		liquid depth	oil (%)
Rectangle Area #1	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #2	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #3	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%

okay

production system leak - DAILY PRODUCTION DATA REQUIRED

Average Daily Production: Oil 0 BBL Water 0 BBL 0 Gas (MCFD)

Total Hydrocarbon Content in gas: 0% (percentage)

Did leak occur before the separator?: YES N/A *(place an "X")*

H2S Content in Produced Gas: 0 PPM

H2S Content in Tank Vapors: 0 PPM

Amount of Free Liquid Recovered: 0 BBL okay

Percentage of Oil in Free Liquid Recovered: 0% (percentage)

Liquid holding factor *: 0.14 gal per gal

Use the following when the spill wets the grains of the soil.
* Sand = **0.08** gallon (gal.) liquid per gal. volume of soil.
* Gravelly (caliche) loam = **0.14** gal. liquid per gal. volume of soil.
* Sandy clay loam soil = **0.14** gal liquid per gal. volume of soil.
* Clay loam = **0.16** gal. liquid per gal. volume of soil.

Use the following when the liquid completely fills the pore space of the soil:
Occurs when the spill soaked soil is contained by barriers, natural (or not).
* Clay loam = **0.20** gal. liquid per gal. volume of soil.
* Gravelly (caliche) loam = **0.25** gal. liquid per gal. volume of soil.
* Sandy loam = **0.5** gal. liquid per gal. volume of soil.

Total Solid/Liquid Volume:	1,350 sq. ft.	338 cu. ft.	38 cu. ft.
Total Free Liquid Volume:	sq. ft.	cu. ft.	cu. ft.

Estimated Volumes Spilled

	H2O	OIL
Liquid in Soil:	8.4 BBL	0.9 BBL
Free Liquid:	0.0 BBL	0.0 BBL
Totals:	**8.4 BBL**	**0.9 BBL**
Total Liquid Spill Liquid:	**8.4 BBL**	**0.94 BBL**

Estimated Production Volumes Lost

	H2O	OIL
Estimated Production Spilled:	0.0 BBL	0.0 BBL

Estimated Surface Damage

Surface Area: 1,350 sq. ft.

Surface Area: .0310 acre

Recovered Volumes

Estimated oil recovered: BBL check - okay

Estimated water recovered: BBL check - okay

Estimated Weights, and Volumes

Saturated Soil =	42,000 lbs	375 cu. ft.	14 cu. yds.
Total Liquid =	9 BBL	393 gallon	3,267 lbs

Air Emission from flowline leaks:

Volume of oil spill:	-	BBL
Separator gas calculated:	-	MCF
Separator gas released:	-	MCF
Gas released from oil:	-	lb
H2S released:	-	lb
Total HC gas released:	-	lb
Total HC gas released:	-	MCF

Air Emission of Reporting Requirements:

	New Mexico	Texas
HC gas release reportable?	NO	NO
H2S release reportable?	NO	NO

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ 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)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
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?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☒ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☒ Yes ☐ 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.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☐ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☐ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

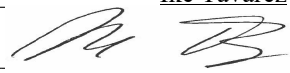
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, 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

Incident ID	
District RP	
Facility ID	
Application ID	

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: Ike Tavarez Title: Senior HSE Representative

Signature:  Date:

email: itavarez@concho.com Telephone: 432-701-8630

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	**NRM2001534588**
District RP	
Facility ID	
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: Ike Tavarez Title: Senior HSE Representative

Signature: _____ Date: _____

email: itavarez@concho.com Telephone: 432-701-8630

OCD Only

Received by: Victoria Venegas Date: 03/02/2020

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: CLOSURE DENIED Date: 04/15/2020

Printed Name: Victoria Venegas Title: Engineering Tech. III

Appendix C: Depth to Groundwater Data

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

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 587734.51 **Northing (Y):** 3558462.34 **Radius:** 804.67

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-basin Code	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 01411	C	ED	4	4	2	04	25S	28E	586289	3558522*	1446	69	35	34
C 02668	C	ED	2	1	2	09	25S	28E	585890	3557525*	2069	150		

Average Depth to Water: **35 feet**

Minimum Depth: **35 feet**

Maximum Depth: **35 feet**

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 587734.51 **Northing (Y):** 3558462.34 **Radius:** 2414

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

Appendix D: Laboratory Analytical Reports

Certificate of Analysis Summary 644955

TRC Solutions, Inc, Midland, TX

Project Name: Sly Hawk State #001

Project Id:

Contact: Jared Stoffel

Project Location: New Mexico

Date Received in Lab: Wed Dec-04-19 08:54 am

Report Date: 05-DEC-19

Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	644955-001		644955-002		644955-003		644955-004		644955-005		644955-006	
	Field Id:	FL-A1-2		TT-A1-3		TT-A1-4		TT-A1-5		ESW-A1-1		SSW-A1-1	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-03-19 13:30		Dec-03-19 13:35		Dec-03-19 13:40		Dec-03-19 13:45		Dec-03-19 13:50		Dec-03-19 13:55	
BTEX by EPA 8021B	***Extracted:***	Dec-04-19 09:15		Dec-04-19 09:15		Dec-04-19 09:15		Dec-04-19 09:15		Dec-04-19 09:15		Dec-04-19 09:15	
	Analyzed:	Dec-04-19 13:38		Dec-04-19 14:06		Dec-04-19 14:26		Dec-04-19 14:46		Dec-04-19 15:06		Dec-04-19 15:26	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00401	0.00401	<0.00400	0.00400	<0.00397	0.00397	<0.00397	0.00397	<0.00400	0.00400	<0.00399	0.00399
o-Xylene		<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200
Total Xylenes		<0.002	0.002	<0.002	0.002	<0.00198	0.00198	<0.00198	0.00198	<0.002	0.002	<0.002	0.002
Total BTEX		<0.002	0.002	<0.002	0.002	<0.00198	0.00198	<0.00198	0.00198	<0.002	0.002	<0.002	0.002
Chloride by EPA 300	***Extracted:***	Dec-04-19 10:00		Dec-04-19 10:00		Dec-04-19 10:00		Dec-04-19 10:00		Dec-04-19 10:00		Dec-04-19 10:00	
	Analyzed:	Dec-04-19 10:37		Dec-04-19 11:05		Dec-04-19 11:14		Dec-04-19 11:24		Dec-04-19 11:33		Dec-04-19 12:01	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1030	5.03	659	49.8	727	50.5	292	49.6	2190	50.4	1370	25.1
TPH by SW8015 Mod	***Extracted:***	Dec-04-19 11:00		Dec-04-19 11:00		Dec-04-19 11:00		Dec-04-19 11:00		Dec-04-19 11:00		Dec-04-19 11:00	
	Analyzed:	Dec-04-19 11:04		Dec-04-19 12:01		Dec-04-19 12:20		Dec-04-19 12:38		Dec-04-19 12:57		Dec-04-19 13:16	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0
Diesel Range Organics (DRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8	55.3	50.0	70.2	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0
Total TPH		<50	50	<50	50	<49.9	49.9	<49.8	49.8	55.3	50	70.2	50

Certificate of Analysis Summary 644955

TRC Solutions, Inc, Midland, TX

Project Name: Sly Hawk State #001

Project Id:
Contact: Jared Stoffel
Project Location: New Mexico

Date Received in Lab: Wed Dec-04-19 08:54 am
Report Date: 05-DEC-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	644955-007		644955-008		644955-009		644955-010					
	Field Id:	FL-B1-3		SSW-B1-1		NSW-B1-1		ESW-B1-1					
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	Dec-03-19 14:00		Dec-03-19 14:05		Dec-03-19 14:10		Dec-03-19 14:15					
BTEX by EPA 8021B	***Extracted:***	Dec-04-19 09:15		Dec-04-19 09:15		Dec-04-19 09:15		Dec-04-19 09:15					
	Analyzed:	Dec-04-19 15:46		Dec-04-19 16:07		Dec-04-19 16:27		Dec-04-19 16:47					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198				
Toluene		<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198				
Ethylbenzene		<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198				
m,p-Xylenes		<0.00402	0.00402	<0.00398	0.00398	<0.00398	0.00398	<0.00397	0.00397				
o-Xylene		<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198				
Total Xylenes		<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198				
Total BTEX		<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198				
Chloride by EPA 300	***Extracted:***	Dec-04-19 10:00		Dec-04-19 10:00		Dec-04-19 10:00		Dec-04-19 10:00					
	Analyzed:	Dec-04-19 12:10		Dec-04-19 12:19		Dec-04-19 12:28		Dec-04-19 12:38					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		199	49.6	269	50.5	234	4.95	534	50.2				
TPH by SW8015 Mod	***Extracted:***	Dec-04-19 11:00		Dec-04-19 11:00		Dec-04-19 11:00		Dec-04-19 11:00					
	Analyzed:	Dec-04-19 13:34		Dec-04-19 13:53		Dec-04-19 14:11		Dec-04-19 14:30					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.9	49.9				
Diesel Range Organics (DRO)		<49.9	49.9	<50.0	50.0	<50.0	50.0	108	49.9				
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.9	49.9				
Total TPH		<49.9	49.9	<50	50	<50	50	108	49.9				

Analytical Report 644955

for

TRC Solutions, Inc

Project Manager: Jared Stoffel

Sly Hawk State #001

05-DEC-19

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

05-DEC-19

Project Manager: **Jared Stoffel**
TRC Solutions, Inc
2057 Commerce
Midland, TX 79703

Reference: XENCO Report No(s): **644955**
Sly Hawk State #001
Project Address: New Mexico

Jared Stoffel:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 644955. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 644955 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Sample Cross Reference 644955

TRC Solutions, Inc, Midland, TX

Sly Hawk State #001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FL-A1-2	S	12-03-19 13:30		644955-001
TT-A1-3	S	12-03-19 13:35		644955-002
TT-A1-4	S	12-03-19 13:40		644955-003
TT-A1-5	S	12-03-19 13:45		644955-004
ESW-A1-1	S	12-03-19 13:50		644955-005
SSW-A1-1	S	12-03-19 13:55		644955-006
FL-B1-3	S	12-03-19 14:00		644955-007
SSW-B1-1	S	12-03-19 14:05		644955-008
NSW-B1-1	S	12-03-19 14:10		644955-009
ESW-B1-1	S	12-03-19 14:15		644955-010

Sample receipt non conformances and comments:

CORRECTED SAMPLE 010 NAME TO REFLECT THE COC. NEW VERSION GENERATED. JK 12/05/19

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3109394 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analytical Results 644955

TRC Solutions, Inc, Midland, TX

Sly Hawk State #001

Sample Id:	**FL-A1-2**	Matrix:	Soil	Date Received:	12.04.19 08.54
Lab Sample Id:	644955-001	Date Collected:	12.03.19 13.30		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.04.19 10.00	Basis:	Wet Weight
Seq Number:	3109331				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1030**	5.03	mg/kg	12.04.19 10.37		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.19 11.00	Basis:	Wet Weight
Seq Number:	3109353				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.04.19 11.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.04.19 11.04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.04.19 11.04	U	1
Total TPH	PHC635	<50	50	mg/kg	12.04.19 11.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	12.04.19 11.04	
o-Terphenyl	84-15-1	103	%	70-135	12.04.19 11.04	

Certificate of Analytical Results 644955

TRC Solutions, Inc, Midland, TX

Sly Hawk State #001

Sample Id:	**FL-A1-2**	Matrix:	Soil	Date Received:	12.04.19 08.54
Lab Sample Id:	644955-001	Date Collected:	12.03.19 13.30		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.04.19 09.15	Basis:	Wet Weight
Seq Number:	3109394				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.04.19 13.38	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.04.19 13.38	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.04.19 13.38	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.04.19 13.38	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.04.19 13.38	U	1
Total Xylenes	1330-20-7	<0.002	0.002	mg/kg	12.04.19 13.38	U	1
Total BTEX		<0.002	0.002	mg/kg	12.04.19 13.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	112	%	70-130	12.04.19 13.38	
4-Bromofluorobenzene	460-00-4	105	%	70-130	12.04.19 13.38	

Certificate of Analytical Results 644955

TRC Solutions, Inc, Midland, TX

Sly Hawk State #001

Sample Id:	**TT-A1-3**	Matrix:	Soil	Date Received:	12.04.19 08.54
Lab Sample Id:	644955-002	Date Collected:	12.03.19 13.35		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.04.19 10.00	Basis:	Wet Weight
Seq Number:	3109331				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**659**	49.8	mg/kg	12.04.19 11.05		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.19 11.00	Basis:	Wet Weight
Seq Number:	3109353				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.04.19 12.01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.04.19 12.01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.04.19 12.01	U	1
Total TPH	PHC635	<50	50	mg/kg	12.04.19 12.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	12.04.19 12.01	
o-Terphenyl	84-15-1	102	%	70-135	12.04.19 12.01	

Certificate of Analytical Results 644955

TRC Solutions, Inc, Midland, TX

Sly Hawk State #001

Sample Id:	**TT-A1-3**	Matrix:	Soil	Date Received:	12.04.19 08.54
Lab Sample Id:	644955-002	Date Collected:	12.03.19 13.35		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.04.19 09.15	Basis:	Wet Weight
Seq Number:	3109394				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.04.19 14.06	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.04.19 14.06	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.04.19 14.06	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.04.19 14.06	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.04.19 14.06	U	1
Total Xylenes	1330-20-7	<0.002	0.002	mg/kg	12.04.19 14.06	U	1
Total BTEX		<0.002	0.002	mg/kg	12.04.19 14.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	12.04.19 14.06	
4-Bromofluorobenzene	460-00-4	95	%	70-130	12.04.19 14.06	

Certificate of Analytical Results 644955

TRC Solutions, Inc, Midland, TX

Sly Hawk State #001

Sample Id:	**TT-A1-4**	Matrix:	Soil	Date Received:	12.04.19 08.54
Lab Sample Id:	644955-003	Date Collected:	12.03.19 13.40		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.04.19 10.00	Basis:	Wet Weight
Seq Number:	3109331				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**727**	50.5	mg/kg	12.04.19 11.14		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.19 11.00	Basis:	Wet Weight
Seq Number:	3109353				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.04.19 12.20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.04.19 12.20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.04.19 12.20	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.04.19 12.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	12.04.19 12.20	
o-Terphenyl	84-15-1	103	%	70-135	12.04.19 12.20	

Certificate of Analytical Results 644955

TRC Solutions, Inc, Midland, TX

Sly Hawk State #001

Sample Id:	**TT-A1-4**	Matrix:	Soil	Date Received:	12.04.19 08.54
Lab Sample Id:	644955-003	Date Collected:	12.03.19 13.40		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.04.19 09.15	Basis:	Wet Weight
Seq Number:	3109394				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.04.19 14.26	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	12.04.19 14.26	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.04.19 14.26	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	12.04.19 14.26	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.04.19 14.26	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	12.04.19 14.26	U	1
Total BTEX		<0.00198	0.00198	mg/kg	12.04.19 14.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	12.04.19 14.26	
1,4-Difluorobenzene	540-36-3	111	%	70-130	12.04.19 14.26	

Certificate of Analytical Results 644955

TRC Solutions, Inc, Midland, TX

Sly Hawk State #001

Sample Id:	**TT-A1-5**	Matrix:	Soil	Date Received:	12.04.19 08.54
Lab Sample Id:	644955-004	Date Collected:	12.03.19 13.45		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.04.19 10.00	Basis:	Wet Weight
Seq Number:	3109331				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**292**	49.6	mg/kg	12.04.19 11.24		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.19 11.00	Basis:	Wet Weight
Seq Number:	3109353				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	12.04.19 12.38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	12.04.19 12.38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	12.04.19 12.38	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	12.04.19 12.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	12.04.19 12.38	
o-Terphenyl	84-15-1	114	%	70-135	12.04.19 12.38	

Certificate of Analytical Results 644955

TRC Solutions, Inc, Midland, TX

Sly Hawk State #001

Sample Id:	**TT-A1-5**	Matrix:	Soil	Date Received:	12.04.19 08.54
Lab Sample Id:	644955-004	Date Collected:	12.03.19 13.45		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.04.19 09.15	Basis:	Wet Weight
Seq Number:	3109394				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.04.19 14.46	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	12.04.19 14.46	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.04.19 14.46	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	12.04.19 14.46	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.04.19 14.46	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	12.04.19 14.46	U	1
Total BTEX		<0.00198	0.00198	mg/kg	12.04.19 14.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	114	%	70-130	12.04.19 14.46	
4-Bromofluorobenzene	460-00-4	105	%	70-130	12.04.19 14.46	

Certificate of Analytical Results 644955

TRC Solutions, Inc, Midland, TX

Sly Hawk State #001

Sample Id:	**ESW-A1-1**	Matrix:	Soil	Date Received:	12.04.19 08.54
Lab Sample Id:	644955-005	Date Collected:	12.03.19 13.50		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.04.19 10.00	Basis:	Wet Weight
Seq Number:	3109331				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2190**	50.4	mg/kg	12.04.19 11.33		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.19 11.00	Basis:	Wet Weight
Seq Number:	3109353				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.04.19 12.57	U	1
Diesel Range Organics (DRO)	C10C28DRO	**55.3**	50.0	mg/kg	12.04.19 12.57		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.04.19 12.57	U	1
Total TPH	PHC635	**55.3**	50	mg/kg	12.04.19 12.57		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	12.04.19 12.57	
o-Terphenyl	84-15-1	104	%	70-135	12.04.19 12.57	

Certificate of Analytical Results 644955

TRC Solutions, Inc, Midland, TX

Sly Hawk State #001

Sample Id:	**ESW-A1-1**	Matrix:	Soil	Date Received:	12.04.19 08.54
Lab Sample Id:	644955-005	Date Collected:	12.03.19 13.50		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.04.19 09.15	Basis:	Wet Weight
Seq Number:	3109394				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.04.19 15.06	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.04.19 15.06	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.04.19 15.06	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.04.19 15.06	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.04.19 15.06	U	1
Total Xylenes	1330-20-7	<0.002	0.002	mg/kg	12.04.19 15.06	U	1
Total BTEX		<0.002	0.002	mg/kg	12.04.19 15.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	12.04.19 15.06	
1,4-Difluorobenzene	540-36-3	115	%	70-130	12.04.19 15.06	

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TRC Solutions, Inc, Midland, TX

Sly Hawk State #001

Sample Id:	**SSW-A1-1**	Matrix:	Soil	Date Received:	12.04.19 08.54
Lab Sample Id:	644955-006	Date Collected:	12.03.19 13.55		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.04.19 10.00	Basis:	Wet Weight
Seq Number:	3109331				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1370**	25.1	mg/kg	12.04.19 12.01		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.19 11.00	Basis:	Wet Weight
Seq Number:	3109353				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.04.19 13.16	U	1
Diesel Range Organics (DRO)	C10C28DRO	**70.2**	50.0	mg/kg	12.04.19 13.16		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.04.19 13.16	U	1
Total TPH	PHC635	**70.2**	50	mg/kg	12.04.19 13.16		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	12.04.19 13.16	
o-Terphenyl	84-15-1	105	%	70-135	12.04.19 13.16	

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TRC Solutions, Inc, Midland, TX

Sly Hawk State #001

Sample Id:	**SSW-A1-1**	Matrix:	Soil	Date Received:	12.04.19 08.54
Lab Sample Id:	644955-006	Date Collected:	12.03.19 13.55		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.04.19 09.15	Basis:	Wet Weight
Seq Number:	3109394				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.04.19 15.26	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.04.19 15.26	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.04.19 15.26	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.04.19 15.26	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.04.19 15.26	U	1
Total Xylenes	1330-20-7	<0.002	0.002	mg/kg	12.04.19 15.26	U	1
Total BTEX		<0.002	0.002	mg/kg	12.04.19 15.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	12.04.19 15.26	
1,4-Difluorobenzene	540-36-3	113	%	70-130	12.04.19 15.26	

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TRC Solutions, Inc, Midland, TX

Sly Hawk State #001

Sample Id:	**FL-B1-3**	Matrix:	Soil	Date Received:	12.04.19 08.54
Lab Sample Id:	644955-007	Date Collected:	12.03.19 14.00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.04.19 10.00	Basis:	Wet Weight
Seq Number:	3109331				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**199**	49.6	mg/kg	12.04.19 12.10		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.19 11.00	Basis:	Wet Weight
Seq Number:	3109353				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.04.19 13.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.04.19 13.34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.04.19 13.34	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.04.19 13.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	12.04.19 13.34	
o-Terphenyl	84-15-1	104	%	70-135	12.04.19 13.34	

Certificate of Analytical Results 644955

TRC Solutions, Inc, Midland, TX

Sly Hawk State #001

Sample Id:	**FL-B1-3**	Matrix:	Soil	Date Received:	12.04.19 08.54
Lab Sample Id:	644955-007	Date Collected:	12.03.19 14.00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.04.19 09.15	Basis:	Wet Weight
Seq Number:	3109394				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.04.19 15.46	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.04.19 15.46	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.04.19 15.46	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.04.19 15.46	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.04.19 15.46	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.04.19 15.46	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.04.19 15.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	12.04.19 15.46	
1,4-Difluorobenzene	540-36-3	113	%	70-130	12.04.19 15.46	

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TRC Solutions, Inc, Midland, TX

Sly Hawk State #001

Sample Id:	**SSW-B1-1**	Matrix:	Soil	Date Received:	12.04.19 08.54
Lab Sample Id:	644955-008	Date Collected:	12.03.19 14.05		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.04.19 10.00	Basis:	Wet Weight
Seq Number:	3109331				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**269**	50.5	mg/kg	12.04.19 12.19		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.19 11.00	Basis:	Wet Weight
Seq Number:	3109353				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.04.19 13.53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.04.19 13.53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.04.19 13.53	U	1
Total TPH	PHC635	<50	50	mg/kg	12.04.19 13.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	12.04.19 13.53	
o-Terphenyl	84-15-1	97	%	70-135	12.04.19 13.53	

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TRC Solutions, Inc, Midland, TX

Sly Hawk State #001

Sample Id:	**SSW-B1-1**	Matrix:	Soil	Date Received:	12.04.19 08.54
Lab Sample Id:	644955-008	Date Collected:	12.03.19 14.05		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.04.19 09.15	Basis:	Wet Weight
Seq Number:	3109394				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.04.19 16.07	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.04.19 16.07	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.04.19 16.07	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.04.19 16.07	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.04.19 16.07	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.04.19 16.07	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.04.19 16.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	12.04.19 16.07	
1,4-Difluorobenzene	540-36-3	84	%	70-130	12.04.19 16.07	

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TRC Solutions, Inc, Midland, TX

Sly Hawk State #001

Sample Id:	**NSW-B1-1**	Matrix:	Soil	Date Received:	12.04.19 08.54
Lab Sample Id:	644955-009	Date Collected:	12.03.19 14.10		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.04.19 10.00	Basis:	Wet Weight
Seq Number:	3109331				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**234**	4.95	mg/kg	12.04.19 12.28		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.19 11.00	Basis:	Wet Weight
Seq Number:	3109353				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.04.19 14.11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.04.19 14.11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.04.19 14.11	U	1
Total TPH	PHC635	<50	50	mg/kg	12.04.19 14.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	12.04.19 14.11	
o-Terphenyl	84-15-1	104	%	70-135	12.04.19 14.11	

TRC Solutions, Inc, Midland, TX

Sly Hawk State #001

Sample Id:	**NSW-B1-1**	Matrix:	Soil	Date Received:	12.04.19 08.54
Lab Sample Id:	644955-009	Date Collected:	12.03.19 14.10		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.04.19 09.15	Basis:	Wet Weight
Seq Number:	3109394				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.04.19 16.27	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.04.19 16.27	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.04.19 16.27	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.04.19 16.27	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.04.19 16.27	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.04.19 16.27	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.04.19 16.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	113	%	70-130	12.04.19 16.27	
4-Bromofluorobenzene	460-00-4	104	%	70-130	12.04.19 16.27	

Certificate of Analytical Results 644955

TRC Solutions, Inc, Midland, TX

Sly Hawk State #001

Sample Id:	**ESW-B1-1**	Matrix:	Soil	Date Received:	12.04.19 08.54
Lab Sample Id:	644955-010	Date Collected:	12.03.19 14.15		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.04.19 10.00	Basis:	Wet Weight
Seq Number:	3109331				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**534**	50.2	mg/kg	12.04.19 12.38		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.19 11.00	Basis:	Wet Weight
Seq Number:	3109353				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.04.19 14.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	**108**	49.9	mg/kg	12.04.19 14.30		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.04.19 14.30	U	1
Total TPH	PHC635	**108**	49.9	mg/kg	12.04.19 14.30		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	12.04.19 14.30	
o-Terphenyl	84-15-1	99	%	70-135	12.04.19 14.30	

Certificate of Analytical Results 644955

TRC Solutions, Inc, Midland, TX

Sly Hawk State #001

Sample Id:	**ESW-B1-1**	Matrix:	Soil	Date Received:	12.04.19 08.54
Lab Sample Id:	644955-010	Date Collected:	12.03.19 14.15		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.04.19 09.15	Basis:	Wet Weight
Seq Number:	3109394				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.04.19 16.47	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	12.04.19 16.47	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.04.19 16.47	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	12.04.19 16.47	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.04.19 16.47	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	12.04.19 16.47	U	1
Total BTEX		<0.00198	0.00198	mg/kg	12.04.19 16.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	109	%	70-130	12.04.19 16.47	
4-Bromofluorobenzene	460-00-4	104	%	70-130	12.04.19 16.47	

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.

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

QC Summary 644955

TRC Solutions, Inc

Sly Hawk State #001

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3109331 Matrix: Solid Date Prep: 12.04.19
MB Sample Id: 7691624-1-BLK LCS Sample Id: 7691624-1-BKS LCSD Sample Id: 7691624-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	243	97	242	97	90-110	0	20	mg/kg	12.04.19 10:19	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3109331 Matrix: Soil Date Prep: 12.04.19
Parent Sample Id: 644955-001 MS Sample Id: 644955-001 S MSD Sample Id: 644955-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1030	201	1250	109	1230	100	90-110	2	20	mg/kg	12.04.19 10:46	

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3109353 Matrix: Solid Date Prep: 12.04.19
MB Sample Id: 7691630-1-BLK LCS Sample Id: 7691630-1-BKS LCSD Sample Id: 7691630-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	1100	110	1060	106	70-135	4	20	mg/kg	12.04.19 10:26	
Diesel Range Organics (DRO)	<15.0	1000	1020	102	997	100	70-135	2	20	mg/kg	12.04.19 10:26	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	110		127		125		70-135	%	12.04.19 10:26
o-Terphenyl	109		109		105		70-135	%	12.04.19 10:26

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3109353 Matrix: Solid Date Prep: 12.04.19
MB Sample Id: 7691630-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	12.04.19 10:08	

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 644955

TRC Solutions, Inc

Sly Hawk State #001

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3109353 Matrix: Soil Date Prep: 12.04.19
Parent Sample Id: 644955-001 MS Sample Id: 644955-001 S MSD Sample Id: 644955-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	997	1120	112	1150	115	70-135	3	20	mg/kg	12.04.19 11:24	
Diesel Range Organics (DRO)	30.6	997	1050	102	1090	106	70-135	4	20	mg/kg	12.04.19 11:24	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	127		129		70-135	%	12.04.19 11:24
o-Terphenyl	113		114		70-135	%	12.04.19 11:24

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3109394 Matrix: Solid Date Prep: 12.04.19
MB Sample Id: 7691595-1-BLK LCS Sample Id: 7691595-1-BKS LCSD Sample Id: 7691595-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.111	111	0.115	115	70-130	4	35	mg/kg	12.04.19 11:38	
Toluene	<0.00200	0.100	0.110	110	0.111	111	70-130	1	35	mg/kg	12.04.19 11:38	
Ethylbenzene	<0.00200	0.100	0.117	117	0.116	116	70-130	1	35	mg/kg	12.04.19 11:38	
m,p-Xylenes	<0.00400	0.200	0.239	120	0.238	119	70-130	0	35	mg/kg	12.04.19 11:38	
o-Xylene	<0.00200	0.100	0.117	117	0.119	119	70-130	2	35	mg/kg	12.04.19 11:38	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	109		107		111		70-130	%	12.04.19 11:38
4-Bromofluorobenzene	92		105		113		70-130	%	12.04.19 11:38

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3109394 Matrix: Soil Date Prep: 12.04.19
Parent Sample Id: 644955-001 MS Sample Id: 644955-001 S MSD Sample Id: 644955-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.0900	89	0.0834	84	70-130	8	35	mg/kg	12.04.19 12:19	
Toluene	<0.00202	0.101	0.0853	84	0.0782	78	70-130	9	35	mg/kg	12.04.19 12:19	
Ethylbenzene	<0.00202	0.101	0.0860	85	0.0787	79	70-130	9	35	mg/kg	12.04.19 12:19	
m,p-Xylenes	<0.00403	0.202	0.175	87	0.160	80	70-130	9	35	mg/kg	12.04.19 12:19	
o-Xylene	<0.00202	0.101	0.0873	86	0.0800	80	70-130	9	35	mg/kg	12.04.19 12:19	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	112		111		70-130	%	12.04.19 12:19
4-Bromofluorobenzene	109		105		70-130	%	12.04.19 12:19

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

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 Craslbad, NM (432) 704-5440
Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701 www.xenco.com

Work Order No: 644955

Page 1 of 1

Project Manager:	Jared Stoffel	**Bill to: (if different)**	Ike Tavarez
Company Name:	TRC	**Company Name:**	COG
Address:	10 Desta Dr STE 150E	**Address:**	
City, State ZIP:	Midland, TX 79705	**City, State ZIP:**	
Phone:	432-238-3003	**Email:**	jstoffel@trcompanies.com; itavarez@concho.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:	Sly Hawk State #001	**Turn Around**	
Project Number:		Routine ☐	
Project Location	New Mexico	Rush: Same Day	
Sampler's Name:	J. Stoffel	Due Date:	
PO #:		**Quote #:**	

SAMPLE RECEIPT

Temp Blank:	Yes (No)	**Wet Ice:**	(Yes) No
Temperature (°C):	3.3	**Thermometer ID**	DE
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No (N/A)	**Correction Factor:**	0
Sample Custody Seals:	Yes No (N/A)	**Total Containers:**	

ANALYSIS REQUEST

Preservative Codes

MeOH: Me
None: NO
HNO3: HN
H2S04: H2
HCL: HL
NaOH: Na
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:00pm

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (8015)	BTEX (8021)	Chlorides (E300)	Sample Comments
	FL-A1-2	Soil	12/3/19	1330		1	X	X	X	
	TT-A1-3			1335						
	TT-A1-4			1340						
	TT-A1-5			1345						
	ESW-A1-1			1350						
	SSW-A1-1			1355						
	FL-B1-3			1400						
	SSW-B1-1			1405						
	NSW-B1-1			1410						
	ESW-B1-1	↓	↓	1415		↓	↓	↓	↓	

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 SiO2 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

1631 / 245.1 / 7470 / 7471 : Hg

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			12/4/19	2		
3			849	4		
5				6		

Revised Date 022619 Rev. 2019.1

Final 1.001

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc

Date/ Time Received: 12/04/2019 08:54:11 AM

Work Order #: 644955

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

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3.3
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 12/04/2019
Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 12/04/2019
Jessica Kramer

Certificate of Analysis Summary 645465

TRC Solutions, Inc, Midland, TX

Project Name: Sly Hawk State #1

Project Id:
Contact: Jared Stoffel
Project Location:

Date Received in Lab: Fri Dec-06-19 04:53 pm
Report Date: 10-DEC-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	645465-001		645465-002		645465-003		645465-004					
	Field Id:	WSW-B1-1'		ESW-B1-1'R		NSW-A1-0.5'		WSW-A1-0.5'					
	Depth:	1- ft		1- ft		0.5- ft		0.5- ft					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	Dec-05-19 09:45		Dec-05-19 10:15		Dec-05-19 10:30		Dec-05-19 12:30					
BTEX by EPA 8021B	***Extracted:***	Dec-07-19 15:15		Dec-07-19 15:15		Dec-07-19 15:15		Dec-07-19 15:15					
	Analyzed:	Dec-08-19 01:52		Dec-08-19 02:12		Dec-08-19 09:38		Dec-08-19 09:59					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00202	0.00202	<0.00199	0.00199	<0.00198	0.00198	<0.00201	0.00201				
Toluene		<0.00202	0.00202	<0.00199	0.00199	0.0980	0.00198	<0.00201	0.00201				
Ethylbenzene		<0.00202	0.00202	<0.00199	0.00199	<0.00198	0.00198	<0.00201	0.00201				
m,p-Xylenes		0.00869	0.00403	<0.00398	0.00398	<0.00397	0.00397	<0.00402	0.00402				
o-Xylene		<0.00202	0.00202	<0.00199	0.00199	<0.00198	0.00198	<0.00201	0.00201				
Total Xylenes		0.00869	0.00202	<0.00199	0.00199	<0.00198	0.00198	<0.00201	0.00201				
Total BTEX		0.00869	0.00202	<0.00199	0.00199	0.098	0.00198	<0.00201	0.00201				
Chloride by EPA 300	***Extracted:***	Dec-09-19 09:00		Dec-09-19 10:45		Dec-09-19 10:45		Dec-09-19 10:45					
	Analyzed:	Dec-09-19 11:48		Dec-09-19 12:26		Dec-09-19 12:42		Dec-09-19 12:48					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		224	49.9	89.2	5.02	351	4.96	268	5.00				
TPH by SW8015 Mod	***Extracted:***	Dec-06-19 17:00		Dec-06-19 17:00		Dec-06-19 17:00		Dec-06-19 17:00					
	Analyzed:	Dec-07-19 08:12		Dec-07-19 08:31		Dec-07-19 08:50		Dec-07-19 09:09					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0				
Diesel Range Organics (DRO)		<50.0	50.0	<49.9	49.9	<49.8	49.8	60.4	50.0				
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0				
Total TPH		<50	50	<49.9	49.9	<49.8	49.8	60.4	50				

Jessica Kramer
Project Assistant

Analytical Report 645465

for

TRC Solutions, Inc

Project Manager: Jared Stoffel

Sly Hawk State #1

10-DEC-19

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

10-DEC-19

Project Manager: **Jared Stoffel**
TRC Solutions, Inc
2057 Commerce
Midland, TX 79703

Reference: XENCO Report No(s): **645465**
Sly Hawk State #1
Project Address:

Jared Stoffel:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 645465. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 645465 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Sample Cross Reference 645465

TRC Solutions, Inc, Midland, TX

Sly Hawk State #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
WSW-B1-1'	S	12-05-19 09:45	1 ft	645465-001
ESW-B1-1'R	S	12-05-19 10:15	1 ft	645465-002
NSW-A1-0.5'	S	12-05-19 10:30	0.5 ft	645465-003
WSW-A1-0.5'	S	12-05-19 12:30	0.5 ft	645465-004

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3109770 BTEX by EPA 8021B
Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.
Samples affected are: 645465-001.
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analytical Results 645465

TRC Solutions, Inc, Midland, TX

Sly Hawk State #1

Sample Id:	**WSW-B1-1'**	Matrix:	Soil	Date Received:	12.06.19 16.53
Lab Sample Id:	645465-001	Date Collected:	12.05.19 09.45	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.09.19 09.00	Basis:	Wet Weight
Seq Number:	3109876				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**224**	49.9	mg/kg	12.09.19 11.48		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.06.19 17.00	Basis:	Wet Weight
Seq Number:	3109756				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.07.19 08.12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.07.19 08.12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.07.19 08.12	U	1
Total TPH	PHC635	<50	50	mg/kg	12.07.19 08.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	124	%	70-135	12.07.19 08.12	
o-Terphenyl	84-15-1	121	%	70-135	12.07.19 08.12	

Certificate of Analytical Results 645465

TRC Solutions, Inc, Midland, TX

Sly Hawk State #1

Sample Id:	**WSW-B1-1'**	Matrix:	Soil	Date Received:	12.06.19 16.53
Lab Sample Id:	645465-001	Date Collected:	12.05.19 09.45	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.07.19 15.15	Basis:	Wet Weight
Seq Number:	3109770				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.08.19 01.52	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.08.19 01.52	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.08.19 01.52	U	1
m,p-Xylenes	179601-23-1	**0.00869**	0.00403	mg/kg	12.08.19 01.52		1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.08.19 01.52	U	1
Total Xylenes	1330-20-7	**0.00869**	0.00202	mg/kg	12.08.19 01.52		1
Total BTEX		**0.00869**	0.00202	mg/kg	12.08.19 01.52		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	95	%	70-130	12.08.19 01.52	
4-Bromofluorobenzene	460-00-4	135	%	70-130	12.08.19 01.52	**

Certificate of Analytical Results 645465

TRC Solutions, Inc, Midland, TX

Sly Hawk State #1

Sample Id:	**ESW-B1-1'R**	Matrix:	Soil	Date Received:	12.06.19 16.53
Lab Sample Id:	645465-002	Date Collected:	12.05.19 10.15	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.09.19 10.45	Basis:	Wet Weight
Seq Number:	3109877				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**89.2**	5.02	mg/kg	12.09.19 12.26		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.06.19 17.00	Basis:	Wet Weight
Seq Number:	3109756				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.07.19 08.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.07.19 08.31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.07.19 08.31	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.07.19 08.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	12.07.19 08.31	
o-Terphenyl	84-15-1	105	%	70-135	12.07.19 08.31	

Certificate of Analytical Results 645465

TRC Solutions, Inc, Midland, TX

Sly Hawk State #1

Sample Id:	**ESW-B1-1'R**	Matrix:	Soil	Date Received:	12.06.19 16.53
Lab Sample Id:	645465-002	Date Collected:	12.05.19 10.15	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.07.19 15.15	Basis:	Wet Weight
Seq Number:	3109770				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.08.19 02.12	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.08.19 02.12	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.08.19 02.12	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.08.19 02.12	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.08.19 02.12	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.08.19 02.12	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.08.19 02.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	12.08.19 02.12	
4-Bromofluorobenzene	460-00-4	112	%	70-130	12.08.19 02.12	

Certificate of Analytical Results 645465

TRC Solutions, Inc, Midland, TX

Sly Hawk State #1

Sample Id:	**NSW-A1-0.5'**	Matrix:	Soil	Date Received:	12.06.19 16.53
Lab Sample Id:	645465-003	Date Collected:	12.05.19 10.30	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.09.19 10.45	Basis:	Wet Weight
Seq Number:	3109877				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**351**	4.96	mg/kg	12.09.19 12.42		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.06.19 17.00	Basis:	Wet Weight
Seq Number:	3109756				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	12.07.19 08.50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	12.07.19 08.50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	12.07.19 08.50	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	12.07.19 08.50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	12.07.19 08.50	
o-Terphenyl	84-15-1	107	%	70-135	12.07.19 08.50	

Certificate of Analytical Results 645465

TRC Solutions, Inc, Midland, TX

Sly Hawk State #1

Sample Id:	**NSW-A1-0.5'**	Matrix:	Soil	Date Received:	12.06.19 16.53
Lab Sample Id:	645465-003	Date Collected:	12.05.19 10.30	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.07.19 15.15	Basis:	Wet Weight
Seq Number:	3109770				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.08.19 09.38	U	1
Toluene	108-88-3	**0.0980**	0.00198	mg/kg	12.08.19 09.38		1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.08.19 09.38	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	12.08.19 09.38	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.08.19 09.38	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	12.08.19 09.38	U	1
Total BTEX		**0.098**	0.00198	mg/kg	12.08.19 09.38		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	93	%	70-130	12.08.19 09.38	
4-Bromofluorobenzene	460-00-4	90	%	70-130	12.08.19 09.38	

Certificate of Analytical Results 645465

TRC Solutions, Inc, Midland, TX

Sly Hawk State #1

Sample Id:	**WSW-A1-0.5'**	Matrix:	Soil	Date Received:	12.06.19 16.53
Lab Sample Id:	645465-004	Date Collected:	12.05.19 12.30	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.09.19 10.45	Basis:	Wet Weight
Seq Number:	3109877				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**268**	5.00	mg/kg	12.09.19 12.48		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.06.19 17.00	Basis:	Wet Weight
Seq Number:	3109756				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.07.19 09.09	U	1
Diesel Range Organics (DRO)	C10C28DRO	**60.4**	50.0	mg/kg	12.07.19 09.09		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.07.19 09.09	U	1
Total TPH	PHC635	**60.4**	50	mg/kg	12.07.19 09.09		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	12.07.19 09.09	
o-Terphenyl	84-15-1	106	%	70-135	12.07.19 09.09	

Certificate of Analytical Results 645465

TRC Solutions, Inc, Midland, TX

Sly Hawk State #1

Sample Id:	**WSW-A1-0.5'**	Matrix:	Soil	Date Received:	12.06.19 16.53
Lab Sample Id:	645465-004	Date Collected:	12.05.19 12.30	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.07.19 15.15	Basis:	Wet Weight
Seq Number:	3109770				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.08.19 09.59	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.08.19 09.59	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.08.19 09.59	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.08.19 09.59	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.08.19 09.59	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.08.19 09.59	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.08.19 09.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	12.08.19 09.59	
4-Bromofluorobenzene	460-00-4	83	%	70-130	12.08.19 09.59	

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.

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

QC Summary 645465

TRC Solutions, Inc

Sly Hawk State #1

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3109876 Matrix: Solid Date Prep: 12.09.19
MB Sample Id: 7691936-1-BLK LCS Sample Id: 7691936-1-BKS LCSD Sample Id: 7691936-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	262	105	265	106	90-110	1	20	mg/kg	12.09.19 09:13	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3109877 Matrix: Solid Date Prep: 12.09.19
MB Sample Id: 7691969-1-BLK LCS Sample Id: 7691969-1-BKS LCSD Sample Id: 7691969-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	263	105	266	106	90-110	1	20	mg/kg	12.09.19 12:16	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3109876 Matrix: Soil Date Prep: 12.09.19
Parent Sample Id: 645426-007 MS Sample Id: 645426-007 S MSD Sample Id: 645426-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	46.1	251	285	95	290	97	90-110	2	20	mg/kg	12.09.19 09:29	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3109876 Matrix: Soil Date Prep: 12.09.19
Parent Sample Id: 645426-017 MS Sample Id: 645426-017 S MSD Sample Id: 645426-017 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	29.3	251	274	97	271	96	90-110	1	20	mg/kg	12.09.19 10:44	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3109877 Matrix: Soil Date Prep: 12.09.19
Parent Sample Id: 645405-001 MS Sample Id: 645405-001 S MSD Sample Id: 645405-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2.96	249	241	96	241	96	90-110	0	20	mg/kg	12.09.19 13:47	

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 645465

TRC Solutions, Inc

Sly Hawk State #1

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3109877 Matrix: Soil Date Prep: 12.09.19
Parent Sample Id: 645465-002 MS Sample Id: 645465-002 S MSD Sample Id: 645465-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	89.2	251	326	94	328	95	90-110	1	20	mg/kg	12.09.19 12:32	

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3109756 Matrix: Solid Date Prep: 12.06.19
MB Sample Id: 7691874-1-BLK LCS Sample Id: 7691874-1-BKS LCSD Sample Id: 7691874-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	1150	115	1170	117	70-135	2	20	mg/kg	12.07.19 01:26	
Diesel Range Organics (DRO)	<15.0	1000	1020	102	1120	112	70-135	9	20	mg/kg	12.07.19 01:26	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	122		127		129		70-135	%	12.07.19 01:26
o-Terphenyl	121		113		119		70-135	%	12.07.19 01:26

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3109756 Matrix: Solid Date Prep: 12.06.19
MB Sample Id: 7691874-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	12.07.19 01:07	

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3109756 Matrix: Soil Date Prep: 12.06.19
Parent Sample Id: 645199-001 MS Sample Id: 645199-001 S MSD Sample Id: 645199-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	997	1130	113	1120	112	70-135	1	20	mg/kg	12.07.19 02:24	
Diesel Range Organics (DRO)	<15.0	997	1050	105	1030	103	70-135	2	20	mg/kg	12.07.19 02:24	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	128		127		70-135	%	12.07.19 02:24
o-Terphenyl	110		105		70-135	%	12.07.19 02:24

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Final 1.000

QC Summary 645465

TRC Solutions, Inc

Sly Hawk State #1

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3109770 Matrix: Solid Date Prep: 12.07.19

MB Sample Id: 7691901-1-BLK LCS Sample Id: 7691901-1-BKS LCSD Sample Id: 7691901-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000385	0.100	0.104	104	0.0975	98	70-130	6	35	mg/kg	12.07.19 21:51	
Toluene	<0.000456	0.100	0.0997	100	0.0974	97	70-130	2	35	mg/kg	12.07.19 21:51	
Ethylbenzene	<0.000565	0.100	0.0964	96	0.0956	96	70-130	1	35	mg/kg	12.07.19 21:51	
m,p-Xylenes	<0.00101	0.200	0.194	97	0.196	98	70-130	1	35	mg/kg	12.07.19 21:51	
o-Xylene	<0.000344	0.100	0.0965	97	0.0990	99	70-130	3	35	mg/kg	12.07.19 21:51	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	92		91		93		70-130	%	12.07.19 21:51
4-Bromofluorobenzene	92		100		113		70-130	%	12.07.19 21:51

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3109770 Matrix: Soil Date Prep: 12.07.19

Parent Sample Id: 645454-001 MS Sample Id: 645454-001 S MSD Sample Id: 645454-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000385	0.100	0.0935	94	0.0899	91	70-130	4	35	mg/kg	12.07.19 22:31	
Toluene	<0.000456	0.100	0.0899	90	0.0868	88	70-130	4	35	mg/kg	12.07.19 22:31	
Ethylbenzene	<0.000565	0.100	0.0864	86	0.0842	85	70-130	3	35	mg/kg	12.07.19 22:31	
m,p-Xylenes	<0.00101	0.200	0.174	87	0.170	86	70-130	2	35	mg/kg	12.07.19 22:31	
o-Xylene	<0.000344	0.100	0.0878	88	0.0858	86	70-130	2	35	mg/kg	12.07.19 22:31	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	95		95		70-130	%	12.07.19 22:31
4-Bromofluorobenzene	108		113		70-130	%	12.07.19 22:31

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

Chain of Custody

Work Order No: 6045465

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
www.xenco.com

Project Manager:	Jared Stoffel	Bill to: (if different)	Ike Tavarez
Company Name:	TRC Environmental	Company Name:	COG
Address:	10 Desta Dr. STE 150E	Address:	
City, State ZIP:	Midland, TX 79705	City, State ZIP:	
Phone:	(432) 238-3003	Email:	jstoffel@trccompanies.com, ITavarez@conco.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level I ☐ Level II ☐ PST/US ☐ TRR ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Sly Hawk State #1	Turn Around	
Project Number:		Routine: ☐	
Project Location		Rush: ☒ 3d	
Sampler's Name:	Braedon Billings	Due Date:	
PO #:			

SAMPLE RECEIPT				
Temperature (°C):	4.3	Temp Blank: Yes (No)	Wet Ice: (Yes) No	
Received Intact:	(Yes) No	Thermometer ID		126
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:		0
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chlorides	TPH (8015 Method)	BTEX (8021B)
WSW - B1 - 1'	SS	12/5/2019	0945	1'	1	X	X	X
ESW - B1 - 1' R	SS	12/5/2019	1015	1'	1	X	X	X
NSW - A1 - 0.5'	SS	12/5/2019	1030	0.5'	1	X	X	X
WSW - A1- 0.5'	SS	12/5/2019	1230	0.5'	1	X	X	X

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

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 SiO2 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 **1631 / 245.1 / 7470 / 7471** : Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		12/6/19	2		
3			4		
5		1653	6		

XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc

Date/ Time Received: 12/06/2019 04:53:00 PM

Work Order #: 645465

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

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4.3
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 12/06/2019
Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 12/10/2019
Jessica Kramer