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	NRM2014056966
District RP	
Facility ID	38633
Application ID	

Release Notification

Responsible Party

Responsible Party: Centennial Resource Production, Inc	OGRID: 372165
Contact Name: Jamon Hohensee	Contact Telephone: 432-241-4283
Contact email: Jamon.Hohensee@cdevinc.com	Incident # *(assigned by OCD)*
Contact mailing address: 500 W. Illinois Ave, Suite 500, Midland, Texas 79705	

Location of Release Source

Latitude 32.33281 Longitude -103.41771
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Duck Hunt 1 State Com CTB	Site Type: Oil Production
Date Release Discovered: 5/12/20	API#

Unit Letter	Section	Township	Range	County
I	01	23S	34E	Lea

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) .16bbls	Volume Recovered (bbls) 0
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	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
On May 12, 2020 there was a small fire (10'x30' area) that occurred on the pad of the Duck Hunt CTB located at 32.33281, -103.41771 from the flare releasing liquids that ignited and fell to the ground. The liquids extinguished themselves with no other damages to any equipment or vegetation.

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? A fire occurred from the liquids exiting the flare.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? An email was sent to emnrd_ocd_district1spills@state.nm.us and Jim Griswold on 5-13-2020	

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: Jamon Hohensee Title: Sr. Environmental Analyst

Signature: Jamon Hohensee Date: 5/19/2020

email: Jamon.hohensee@cdevinc.com Telephone: 432-421-4283

OCD Only

Received by: Date:

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?	_____ (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	
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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: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Received by OCD: 5/19/2020 12:08:51 PM

State of New Mexico
Oil Conservation Division

Incident ID	NRM2014056966
District RP	
Facility ID	38633
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: Jamon Hohensee Title: Sr. Environmental Analyst

Signature: Jamon H. Date: 9-15-20

email: jamon.hohensee@cdevinc.com Telephone: 432-241-4283

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Environmental & Safety Solutions, Inc.

CLOSURE REQUEST AND REMEDIATION SUMMARY REPORT

Centennial Resource Development, Inc.
Duck Hunt 1 SC Central Battery
Lea County, New Mexico
Unit Letter "I", Section 1, Township 23 South, Range 34 East
Latitude 32.333609° North, Longitude 103.417761° West
NMOCD Reference # NRH2014056966

Prepared For:

Centennial Resource Development, Inc.
500 W. Illinois Avenue Suite 500
Midland, TX 79701

Prepared By:

Etech Environmental & Safety Solutions, Inc.
P.O. Box 62228
Midland, Texas 79711

September 2020

Wesley A. Desilets
Project Manager

Matthew Green, P.G.
Senior Project Manager

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APPENDICES

INTRODUCTION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Centennial Resource Development, Inc. (Centennial), has prepared this Closure Request and Remediation Summary Report for the Release Site known as Duck Hunt 1 SC Central Battery. The legal description of the Release Site is Unit Letter "I", Section 1, Township 23 South, Range 34 East, in Lea County, New Mexico. The subject property is owned by The New Mexico State Land Office (NMSLO). The Release Site GPS coordinates are 32.333609° North and 103.417761° West. Please reference Figure 1 for the Site Location Map and Figure 2 for the Confirmation Soil Sample Location Map.

On May 12, 2020, Centennial discovered that a release had occurred due to a flare upset and small fire. Approximately seven (7) gallons of crude oil were released with zero (0) recovered, resulting in a net loss of approximately seven (7) gallons of crude oil. On May 19, 2020, Centennial filed a *Release Notification and Corrective Action Form* (Form C-141) with the New Mexico Oil Conservation Division (NMOCD) and NMSLO documenting the release. The Form C-141 is provided as Appendix C. Photographic documentation for the site are provided as Appendix A.

NMOCD SITE CLASSIFICATION

A search of the groundwater database maintained by United States Geological Survey (USGS) did not identify any registered water wells within a quarter (1/4) mile of the Duck Hunt 1 SC Central Battery Release Site. A further search of the USGS database identified the closest registered water well is USGS Well #: 321924103245501 located approximately one (1) mile southwest of the Release Site. The average depth to groundwater for USGS Well #: 321924103245501 should be encountered at approximately one hundred thirty-five (135) feet below ground surface (bgs). Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion. No water wells were observed within one thousand (1,000) feet of the Release Site. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion. No surface water was observed within one thousand (1,000) feet of the release. Based on the NMOCD site classification system, zero (0) points will be assigned to the Duck Hunt 1 SC Central Battery Release Site as a result of this criterion. Based on this score, the soil remediation levels for a site with a ranking score of zero (0) points are as follows:

- Benzene – 10 mg/Kg (ppm)
- BTEX – 50 mg/Kg (ppm)
- TPH – 100 mg/Kg (ppm)
- Chloride – 600 mg/Kg (ppm)

SUMMARY OF SOIL REMEDIATION ACTIVITIES

On June 11, 2020, Etech commenced excavation activities at the Release Site utilizing a backhoe and manual means. Excavation activities were conducted in a manner that protected the integrity of the production equipment. Etech hand spotted around all surface equipment and excavated by hand all impacted material within two (2) feet of any production equipment. Excavated soil was stockpiled on site and remediated utilizing blending and aerating techniques.

On June 12, 2020, Etech, on behalf of Centennial, collected two (2) composite confirmation soil samples (Bottomhole-1 @ 1' and Bottomhole-2 @ 1') from the excavated area and one (1) composite soil sample from the remediated stockpiled soil. Soil samples were submitted to Permian Basin Environmental Lab, LP. (PBELAB) in Midland, Texas and analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) using EPA Method SW 846-8021B, Total Petroleum Hydrocarbons (TPH) using EPA Method SW 846-8015M, and chloride using EPA Method E 300.0. A review of laboratory analytical results indicated additional excavation activities were necessary in the area represented as Bottomhole-2 @ 1' due to elevated chloride concentrations and it was determined that the impacted stockpiled soil would require disposal. Please reference Figure 2 for site details and soil sampling locations.

From June 25 through June 30, 2020, following additional excavation activities, one (1) composite confirmation soil sample (Bottomhole-2 @ 1.5') was collected from the further excavated area and four (4) composite soil samples (SSW-1 @ 1', NSW-1 @ 1', WSW-1 @ 1' and ESW-1 @ 1') were collected from the sidewalls of the excavated area. The samples were submitted to PBELAB for BTEX, TPH, and/or chloride analysis. Please reference Figure 2 for site details and soil sampling locations. A review of laboratory analytical results indicated all collected soil samples were below applicable NMOCD limits.

Table 1 summarizes the Concentrations of Benzene, BTEX, TPH, and Chlorides in Soil. Analytical reports are provided as Appendix B.

SOIL DISPOSAL AND BACKFILL ACTIVIES

On July 23 and July 24, 2020, Etech transported the impacted stockpiled soil to the Sundance disposal facility in Lea County, NM for disposal.

On August 24 and August 25, 2020, the excavated area was backfilled with non-impacted like soil from a local source and the site was contoured to fit the surrounding area.

SITE CLOSURE REQUEST

Based on the analytical results, Centennial requests NMOCD and NMSLO grant Site Closure Status to the Duck Hunt 1 SC Central Battery incident.

LIMITATIONS

Etech has prepared this Closure Request and Remediation Summary Report to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Etech 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. Etech has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech 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 Centennial Resource Development, Inc. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Etech and/or Centennial Resource Development, Inc.

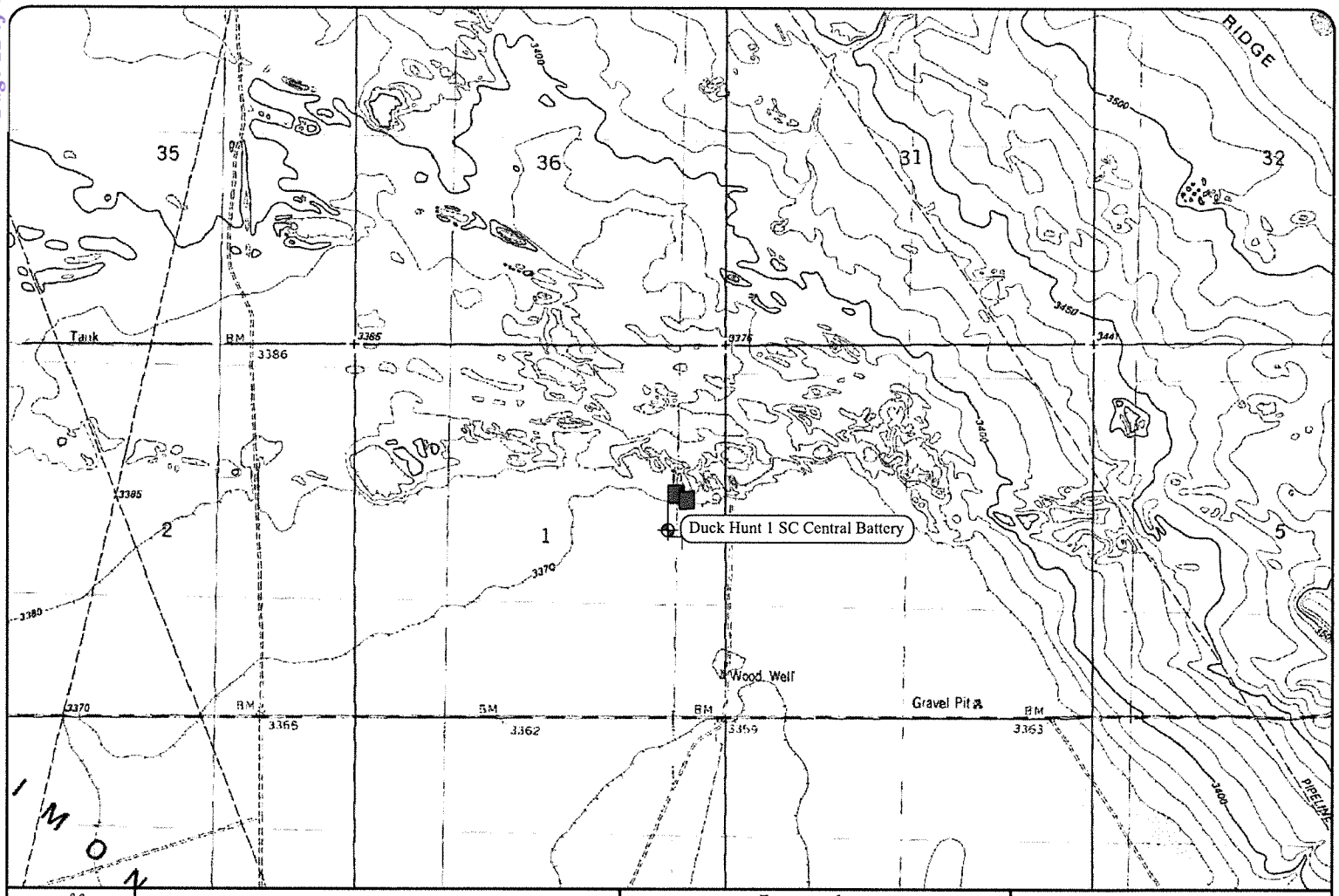
DISTRIBUTION

Copy 1: New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 1
1624 N. French Drive
Hobbs, New Mexico 88210

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

Copy 3: Jamon Hohensee
Centennial Resource Development, Inc.
500 W. Illinois Avenue Suite 500
Midland, TX 79701

Copy 4: Etech Environmental & Safety Solutions, Inc.
P.O. Box 62228
Midland, TX 79711



Site Map - Duck Hunt 1 SC Central Battery
Figure 1: Site Location Map
Centennial Resource Development, Inc.
Lea County, NM
N 32.333609°, W 103.417761°
September 2020

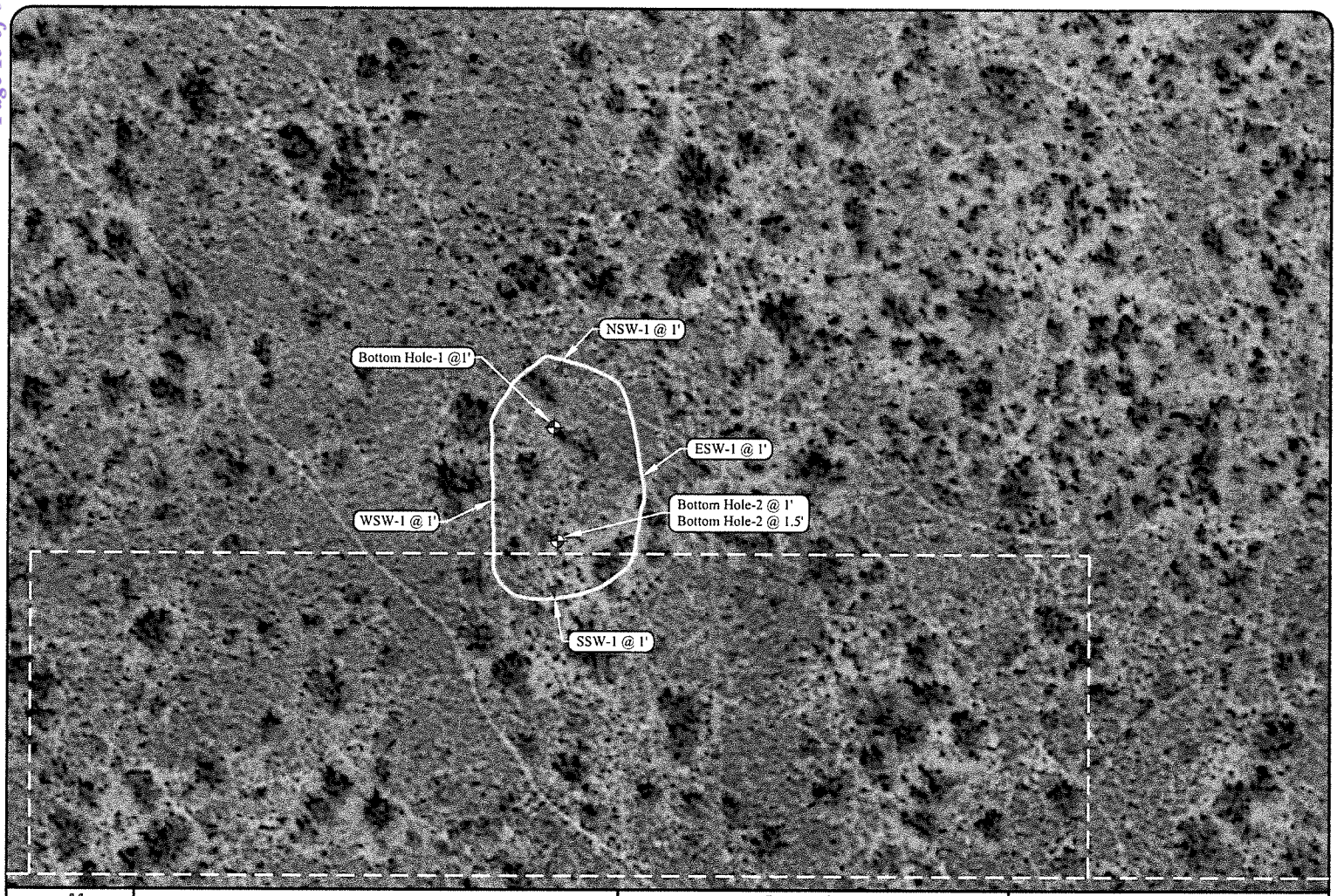
Legend

= Site Location

No Scale

eTECH Environmental & Safety Solutions, Inc.

Job No.: 1226-12469



Site Map - Duck Hunt 1 SC Central Battery
Figure 2: Confirmation Soil Sample Location Map
Centennial Resources Development, Inc.
Lea County, NM
N 32.333609°, W 103.417761°
September 2020

Legend

= Wall Samples
= Bottom Samples
Excavation Perimeter
Caliche Pad Perimeter

0 50 100
Feet

eTECH Environmental & Safety Solutions, Inc.

Job No.: 1226-12469

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

CENTENNIAL RESOURCE DEVELOPMENT, INC.

DUCK HUNT CENTRAL BATTERY RELEASE SITE

LEA COUNTY, NEW MEXICO

All concentrations are reported in mg/Kg

SAMPLE LOCATION	SAMPLE DATE	METHODS: SW 846-8021B						METHOD: SW 8015M					E 300.0
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C_6-C_{12}	TPH DRO C_{12}-C_{28}	TPH ORO C_{28}-C_{35}	TOTAL TPH C_6-C_{35}	CHLORIDE
Limits		10 mg/Kg						50 mg/Kg				100 mg/Kg	600 mg/Kg
Bottom Hole Sample Results													
Bottomhole-1 @ 1'	6/12/2020	<0.00103	<0.00103	<0.00103	<0.00206	<0.00103	<0.00206	<0.00206	<25.8	<25.8	<25.8	<25.8	146
Bottomhole-2 @ 1'	6/12/2020	<0.00103	<0.00103	<0.00103	<0.00206	<0.00103	<0.00206	<0.00206	<25.8	<25.8	<25.8	<25.8	**2,250**
Bottomhole-2 @ 1.5'	6/26/2020	-	-	-	-	-	-	-	-	-	-	-	463
SSW-1 @ 1'	6/26/2020	<0.0204	0.0582	0.0663	0.208	0.0845	0.2925	0.41700	<25.5	52.5	<25.5	52.5	513
NSW-1 @ 1'	6/29/2020	<0.00102	<0.00102	<0.00102	<0.00204	<0.00102	<0.00204	<0.00204	<25.5	<25.5	<25.5	<25.5	149
WSW-1 @ 1'	6/30/2020	<0.00104	<0.00104	<0.00104	<0.00208	<0.00104	<0.00208	<0.00208	<26.0	<26.0	<26.0	<26.0	474
ESW-1 @ 1'	6/30/2020	<0.00101	<0.00101	<0.00101	<0.00202	<0.00101	<0.00202	<0.00202	<25.3	<25.3	<25.3	<25.3	230
Stockpile Sample Results													
Stockpile	6/12/2020	<0.00101	<0.00101	<0.00101	<0.00202	<0.00101	<0.00202	<0.00202	<25.3	307	66.4	373.4	**2,020**

Bold and Yellow Highlighted indicates Analyte Above NMOCD Regulatory Limit

Project Name: *Duck Hunt 1 SC Central Battery*
Project No: *12469*

Photographic Documentation

Photo No: **1.**	
Direction Taken: Northeast	
Description: View of the release area.	

Photo No: **2.**	
Direction Taken: Northwest	
Description: View of the release area.	

Project Name: *Duck Hunt 1 SC Central Battery*
Project No: *12469*

Photographic Documentation

Photo No: **3.**	
Direction Taken: Southwest	
Description: View of the excavated area.	

Photo No: **4.**	
Direction Taken: Northeast	
Description: View of the excavated area.	

Project Name: *Duck Hunt 1 SC Central Battery*
Project No: *12469*

Photographic Documentation

Photo No: **5.**	
Direction Taken: East	
Description: View of the remediated area.	

Photo No: **6.**	
Direction Taken: West	
Description: View of the remediated area.	

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

Matt Green
E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa, TX 79765

Project: Duck Hunt Central Battery Release
Project Number: 12469
Location: Lea County, NM

Lab Order Number: 0F15010

NELAP/TCEQ # T104704516-17-8

Report Date: 06/22/20

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Duck Hunt Central Battery Release
Project Number: 12469
Project Manager: Matt Green

Fax: (432) 563-2213

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Bottomhole-1 @ 1'	0F15010-01	Soil	06/12/20 14:30	06-15-2020 16:30
Bottomhole-2 @ 1'	0F15010-02	Soil	06/12/20 14:35	06-15-2020 16:30
Stockpile	0F15010-03	Soil	06/12/20 15:00	06-15-2020 16:30

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Duck Hunt Central Battery Release
Project Number: 12469
Project Manager: Matt Green

Fax: (432) 563-2213

Bottomhole-1 @ 1'

0F15010-01 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*90.6 %*	*75-125*		*P0F1601*	*06/16/20*	*06/16/20*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.6 %*	*75-125*		*P0F1601*	*06/16/20*	*06/16/20*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**146**	1.03	mg/kg dry	1	P0F1706	06/17/20	06/18/20	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P0F1701	06/17/20	06/17/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*90.6 %*	*70-130*		*P0F1605*	*06/16/20*	*06/17/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*95.1 %*	*70-130*		*P0F1605*	*06/16/20*	*06/17/20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	06/16/20	06/17/20	calc	

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Duck Hunt Central Battery Release
Project Number: 12469
Project Manager: Matt Green

Fax: (432) 563-2213

Bottomhole-2 @ 1'

0F15010-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.4 %*	*75-125*		*P0F1601*	*06/16/20*	*06/16/20*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*92.7 %*	*75-125*		*P0F1601*	*06/16/20*	*06/16/20*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2250**	10.3	mg/kg dry	10	P0F1706	06/17/20	06/18/20	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P0F1701	06/17/20	06/17/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.6 %*	*70-130*		*P0F1605*	*06/16/20*	*06/17/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*95.8 %*	*70-130*		*P0F1605*	*06/16/20*	*06/17/20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	06/16/20	06/17/20	calc	

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Stockpile

0F15010-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*89.7 %*	*75-125*		*P0F1601*	*06/16/20*	*06/16/20*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.9 %*	*75-125*		*P0F1601*	*06/16/20*	*06/16/20*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2020**	10.1	mg/kg dry	10	P0F1706	06/17/20	06/18/20	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P0F1701	06/17/20	06/17/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
>C12-C28	**307**	25.3	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
>C28-C35	**66.4**	25.3	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*93.4 %*	*70-130*		*P0F1605*	*06/16/20*	*06/17/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.9 %*	*70-130*		*P0F1605*	*06/16/20*	*06/17/20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**373**	25.3	mg/kg dry	1	[CALC]	06/16/20	06/17/20	calc	

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BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0F1601 - General Preparation (GC)										
Blank (P0F1601-BLK1)				Prepared & Analyzed: 06/16/20						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.105*		"	*0.120*		*87.3*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.114*		"	*0.120*		*95.2*	*75-125*			
LCS (P0F1601-BS1)				Prepared & Analyzed: 06/16/20						
Benzene	0.0903	0.00100	mg/kg wet	0.100		90.3	70-130			
Toluene	0.0941	0.00100	"	0.100		94.1	70-130			
Ethylbenzene	0.0978	0.00100	"	0.100		97.8	70-130			
Xylene (p/m)	0.193	0.00200	"	0.200		96.5	70-130			
Xylene (o)	0.103	0.00100	"	0.100		103	70-130			
Surrogate: 1,4-Difluorobenzene	*0.117*		"	*0.120*		*97.2*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.106*		"	*0.120*		*88.3*	*75-125*			
LCS Dup (P0F1601-BSD1)				Prepared & Analyzed: 06/16/20						
Benzene	0.0952	0.00100	mg/kg wet	0.100		95.2	70-130	5.30	20	
Toluene	0.0996	0.00100	"	0.100		99.6	70-130	5.59	20	
Ethylbenzene	0.0962	0.00100	"	0.100		96.2	70-130	1.73	20	
Xylene (p/m)	0.203	0.00200	"	0.200		101	70-130	4.80	20	
Xylene (o)	0.109	0.00100	"	0.100		109	70-130	5.31	20	
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*96.8*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.105*		"	*0.120*		*87.7*	*75-125*			
Calibration Blank (P0F1601-CCB1)				Prepared & Analyzed: 06/16/20						
Benzene	0.00		mg/kg wet							
Toluene	0.500		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.470		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.103*		"	*0.120*		*86.0*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*95.9*	*75-125*			

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BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0F1601 - General Preparation (GC)										
Calibration Blank (P0F1601-CCB2)			Prepared & Analyzed: 06/16/20							
Benzene	0.00		mg/kg wet							
Toluene	0.540		"							
Ethylbenzene	0.410		"							
Xylene (p/m)	0.770		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.109*		"	*0.120*		*90.5*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.114*		"	*0.120*		*95.1*	*75-125*			
Calibration Blank (P0F1601-CCB3)			Prepared & Analyzed: 06/16/20							
Benzene	0.00		mg/kg wet							
Toluene	0.970		"							
Ethylbenzene	0.720		"							
Xylene (p/m)	1.98		"							
Xylene (o)	0.650		"							
Surrogate: 4-Bromofluorobenzene	*0.119*		"	*0.120*		*99.1*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.113*		"	*0.120*		*94.4*	*75-125*			
Calibration Check (P0F1601-CCV1)			Prepared & Analyzed: 06/16/20							
Benzene	0.0926	0.00100	mg/kg wet	0.100		92.6	80-120			
Toluene	0.0944	0.00100	"	0.100		94.4	80-120			
Ethylbenzene	0.0953	0.00100	"	0.100		95.3	80-120			
Xylene (p/m)	0.188	0.00200	"	0.200		93.9	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*96.3*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.104*		"	*0.120*		*87.0*	*75-125*			
Calibration Check (P0F1601-CCV2)			Prepared & Analyzed: 06/16/20							
Benzene	0.0895	0.00100	mg/kg wet	0.100		89.5	80-120			
Toluene	0.0919	0.00100	"	0.100		91.9	80-120			
Ethylbenzene	0.0942	0.00100	"	0.100		94.2	80-120			
Xylene (p/m)	0.180	0.00200	"	0.200		90.2	80-120			
Xylene (o)	0.100	0.00100	"	0.100		100	80-120			
Surrogate: 1,4-Difluorobenzene	*0.117*		"	*0.120*		*97.5*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.106*		"	*0.120*		*88.7*	*75-125*			

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BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0F1601 - General Preparation (GC)										
Calibration Check (P0F1601-CCV3)				Prepared & Analyzed: 06/16/20						
Benzene	0.0939	0.00100	mg/kg wet	0.100		93.9	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.204	0.00200	"	0.200		102	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*96.0*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.118*		"	*0.120*		*97.9*	*75-125*			
Matrix Spike (P0F1601-MS1)		**Source: 0F09003-01**		Prepared & Analyzed: 06/16/20						
Benzene	0.0744	0.00106	mg/kg dry	0.106	ND	69.9	80-120			QM-05
Toluene	0.0985	0.00106	"	0.106	0.00496	87.9	80-120			
Ethylbenzene	0.0981	0.00106	"	0.106	0.00163	90.6	80-120			
Xylene (p/m)	0.188	0.00213	"	0.213	0.00506	85.9	80-120			
Xylene (o)	0.132	0.00106	"	0.106	0.00129	123	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	*0.0634*		"	*0.128*		*49.6*	*75-125*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.112*		"	*0.128*		*87.9*	*75-125*			
Matrix Spike Dup (P0F1601-MSD1)		**Source: 0F09003-01**		Prepared & Analyzed: 06/16/20						
Benzene	0.0790	0.00106	mg/kg dry	0.106	ND	74.3	80-120	6.09	20	QM-05
Toluene	0.0929	0.00106	"	0.106	0.00496	82.7	80-120	6.17	20	
Ethylbenzene	0.102	0.00106	"	0.106	0.00163	94.7	80-120	4.40	20	
Xylene (p/m)	0.185	0.00213	"	0.213	0.00506	84.6	80-120	1.48	20	
Xylene (o)	0.109	0.00106	"	0.106	0.00129	102	80-120	19.3	20	
Surrogate: 4-Bromofluorobenzene	*0.177*		"	*0.128*		*138*	*75-125*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.118*		"	*0.128*		*92.5*	*75-125*			

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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0F1701 - * DEFAULT PREP *** **										
Blank (P0F1701-BLK1)				Prepared & Analyzed: 06/17/20						
% Moisture	ND	0.1	%							
Duplicate (P0F1701-DUP1)		Source: 0F15011-04		Prepared & Analyzed: 06/17/20						
% Moisture	14.0	0.1	%		14.0			0.00	20	
Duplicate (P0F1701-DUP2)		Source: 0F16004-01		Prepared & Analyzed: 06/17/20						
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P0F1701-DUP3)		Source: 0F16005-09		Prepared & Analyzed: 06/17/20						
% Moisture	ND	0.1	%		ND				20	
Batch P0F1706 - * DEFAULT PREP *** **										
LCS (P0F1706-BS1)				Prepared: 06/17/20 Analyzed: 06/18/20						
Chloride	405	1.00	mg/kg wet	400		101	80-120			
LCS Dup (P0F1706-BSD1)				Prepared: 06/17/20 Analyzed: 06/18/20						
Chloride	408	1.00	mg/kg wet	400		102	80-120	0.650	20	
Calibration Blank (P0F1706-CCB2)				Prepared: 06/17/20 Analyzed: 06/18/20						
Chloride	0.00		mg/kg wet							
Calibration Check (P0F1706-CCV1)				Prepared: 06/17/20 Analyzed: 06/18/20						
Chloride	19.3		mg/kg	20.0		96.6	0-200			
Calibration Check (P0F1706-CCV2)				Prepared: 06/17/20 Analyzed: 06/18/20						
Chloride	19.8		mg/kg	20.0		98.8	0-200			

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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0F1706 - * DEFAULT PREP *** **										
Matrix Spike (P0F1706-MS1)	**Source: 0F15009-15**			Prepared: 06/17/20 Analyzed: 06/18/20						
Chloride	4340	29.4	mg/kg dry	2940	1570	93.9	80-120			
Matrix Spike (P0F1706-MS2)	**Source: 0F16005-06**			Prepared: 06/17/20 Analyzed: 06/18/20						
Chloride	590	1.01	mg/kg dry	505	163	84.5	80-120			

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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0F1605 - TX 1005										
Blank (P0F1605-BLK1)				Prepared: 06/16/20 Analyzed: 06/17/20						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*97.6*		"	*100*		*97.6*	*70-130*			
Surrogate: o-Terphenyl	*47.9*		"	*50.0*		*95.7*	*70-130*			
LCS (P0F1605-BS1)				Prepared: 06/16/20 Analyzed: 06/17/20						
C6-C12	979	25.0	mg/kg wet	1000		97.9	75-125			
>C12-C28	1180	25.0	"	1000		118	75-125			
Surrogate: 1-Chlorooctane	*90.6*		"	*100*		*90.6*	*70-130*			
Surrogate: o-Terphenyl	*43.0*		"	*50.0*		*86.1*	*70-130*			
LCS Dup (P0F1605-BSD1)				Prepared: 06/16/20 Analyzed: 06/17/20						
C6-C12	994	25.0	mg/kg wet	1000		99.4	75-125	1.60	20	
>C12-C28	1110	25.0	"	1000		111	75-125	6.08	20	
Surrogate: 1-Chlorooctane	*90.9*		"	*100*		*90.9*	*70-130*			
Surrogate: o-Terphenyl	*43.5*		"	*50.0*		*87.1*	*70-130*			
Calibration Blank (P0F1605-CCB1)				Prepared: 06/16/20 Analyzed: 06/17/20						
C6-C12	12.0		mg/kg wet							
>C12-C28	6.93		"							
Surrogate: 1-Chlorooctane	*98.0*		"	*100*		*98.0*	*70-130*			
Surrogate: o-Terphenyl	*48.6*		"	*50.0*		*97.3*	*70-130*			
Calibration Blank (P0F1605-CCB2)				Prepared: 06/16/20 Analyzed: 06/17/20						
C6-C12	14.1		mg/kg wet							
>C12-C28	12.5		"							
Surrogate: 1-Chlorooctane	*90.1*		"	*100*		*90.1*	*70-130*			
Surrogate: o-Terphenyl	*45.6*		"	*50.0*		*91.3*	*70-130*			

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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0F1605 - TX 1005										
Calibration Check (P0F1605-CCV1)				Prepared: 06/16/20 Analyzed: 06/17/20						
C6-C12	486	25.0	mg/kg wet	500		97.2	85-115			
>C12-C28	547	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	*95.6*		"	*100*		*95.6*	*70-130*			
Surrogate: o-Terphenyl	*46.7*		"	*50.0*		*93.4*	*70-130*			
Calibration Check (P0F1605-CCV2)				Prepared: 06/16/20 Analyzed: 06/17/20						
C6-C12	454	25.0	mg/kg wet	500		90.9	85-115			
>C12-C28	486	25.0	"	500		97.2	85-115			
Surrogate: 1-Chlorooctane	*89.7*		"	*100*		*89.7*	*70-130*			
Surrogate: o-Terphenyl	*44.6*		"	*50.0*		*89.3*	*70-130*			
Calibration Check (P0F1605-CCV3)				Prepared: 06/16/20 Analyzed: 06/17/20						
C6-C12	490	25.0	mg/kg wet	500		97.9	85-115			
>C12-C28	533	25.0	"	500		107	85-115			
Surrogate: 1-Chlorooctane	*94.3*		"	*100*		*94.3*	*70-130*			
Surrogate: o-Terphenyl	*47.3*		"	*50.0*		*94.6*	*70-130*			
Matrix Spike (P0F1605-MS1)	**Source: 0F15007-08**			Prepared: 06/16/20 Analyzed: 06/19/20						
C6-C12	1230	126	mg/kg dry	1010	278	94.4	75-125			
>C12-C28	9120	126	"	1010	7800	131	75-125			
Surrogate: 1-Chlorooctane	*92.2*		"	*101*		*91.3*	*70-130*			
Surrogate: o-Terphenyl	*46.8*		"	*50.5*		*92.6*	*70-130*			
Matrix Spike Dup (P0F1605-MSD1)	**Source: 0F15007-08**			Prepared: 06/16/20 Analyzed: 06/19/20						
C6-C12	1220	126	mg/kg dry	1010	278	93.7	75-125	0.728	20	
>C12-C28	9020	126	"	1010	7800	121	75-125	7.81	20	
Surrogate: 1-Chlorooctane	*91.8*		"	*101*		*90.9*	*70-130*			
Surrogate: o-Terphenyl	*46.5*		"	*50.5*		*92.1*	*70-130*			

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Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
ROI	Received on Ice
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
BULK	Samples received in Bulk soil containers
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 6/22/2020

Brent Barron, Laboratory Director/Technical Director

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Duck Hunt Central Battery Release
Project Number: 12469
Project Manager: Matt Green

Fax: (432) 563-2213

LKC CKD

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-661-4184

Project Manager: Matt Green
Company Name: Etech Environmental and Safety Solutions, Inc.
Company Address: 13000 W CR 100
City/State/Zip: Odessa, Texas 79765
Telephone No: (432)230-3763 Fax No:
Sampler Signature: Matthew Green e-mail: Matt@etechenv.com wesley@etechenv.com

Project Name: Duck Hunt Central Battery Release
Project #: 12469
Project Loc: Lea County, NM
PO #: Centennial CDEV#: 87539
Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: OF15010

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 8015B 418.1	TOTAL: TPH: 8015B TX 1005 Ext.	TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides E 300		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	Bottomhole-1 @ 1'			6/12/2020	1430		1	x								S	X								X			X				X
2	Bottomhole-2 @ 1'			6/12/2020	1435		1	x								S	X								X			X				X
3	Stockpile			6/12/2020	1500		1	x								S	X								X			X				X

Special Instructions:
Bill to Centennial Resource

	Relinquished by:	Date	Time	Received by:	Date	Time
1	Matthew Green					
2		6.15	4:30			
3				Received by PBEL: Nina Bledroe	6/15/20	16:35

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s) Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered by Sampler/Client Rep.? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt:
Received: 4.5 °C CF -1 = 3.2
Adjusted: 3.5 °C Factor

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

Matt Green
E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa, TX 79765

Project: Duck Hunt Central Battery Release
Project Number: 12469
Location: Lea County, NM

Lab Order Number: 0G01004

NELAP/TCEQ # T104704516-17-8

Report Date: 07/09/20

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Duck Hunt Central Battery Release
Project Number: 12469
Project Manager: Matt Green

Fax: (432) 563-2213

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Bottomhole -2 @ 1.5'	0G01004-01	Soil	06/26/20 14:30	06-30-2020 16:40
SSW-1 @ 1'	0G01004-02	Soil	06/26/20 14:35	06-30-2020 16:40

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Bottomhole -2 @ 1.5'

0G01004-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**463**	1.02	mg/kg dry	1	P0G0207	07/02/20	07/02/20	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P0G0202	07/02/20	07/02/20	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc.	Project: Duck Hunt Central Battery Release	Fax: (432) 563-2213
13000 West County Road 100	Project Number: 12469	
Odessa TX, 79765	Project Manager: Matt Green	

SSW-1 @ 1'

0G01004-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.0204	mg/kg dry	20	P0G0105	07/01/20	07/02/20	EPA 8021B	
Toluene	**0.0582**	0.0204	mg/kg dry	20	P0G0105	07/01/20	07/02/20	EPA 8021B	
Ethylbenzene	**0.0663**	0.0204	mg/kg dry	20	P0G0105	07/01/20	07/02/20	EPA 8021B	
Xylene (p/m)	**0.208**	0.0408	mg/kg dry	20	P0G0105	07/01/20	07/02/20	EPA 8021B	
Xylene (o)	**0.0845**	0.0204	mg/kg dry	20	P0G0105	07/01/20	07/02/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*93.1 %*	*75-125*		*P0G0105*	*07/01/20*	*07/02/20*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*98.6 %*	*75-125*		*P0G0105*	*07/01/20*	*07/02/20*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**513**	1.02	mg/kg dry	1	P0G0207	07/02/20	07/02/20	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P0G0202	07/02/20	07/02/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P0G0103	07/01/20	07/01/20	TPH 8015M	
>C12-C28	**52.5**	25.5	mg/kg dry	1	P0G0103	07/01/20	07/01/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0G0103	07/01/20	07/01/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*101 %*	*70-130*		*P0G0103*	*07/01/20*	*07/01/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.9 %*	*70-130*		*P0G0103*	*07/01/20*	*07/01/20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**52.5**	25.5	mg/kg dry	1	[CALC]	07/01/20	07/01/20	calc	

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BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0105 - General Preparation (GC)										
Blank (P0G0105-BLK1)				Prepared & Analyzed: 07/01/20						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	*0.113*		"	*0.120*		*94.0*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.108*		"	*0.120*		*89.6*	*75-125*			
LCS (P0G0105-BS1)				Prepared & Analyzed: 07/01/20						
Benzene	0.0939	0.00100	mg/kg wet	0.100		93.9	70-130			
Toluene	0.0924	0.00100	"	0.100		92.4	70-130			
Ethylbenzene	0.0952	0.00100	"	0.100		95.2	70-130			
Xylene (p/m)	0.188	0.00200	"	0.200		93.8	70-130			
Xylene (o)	0.0975	0.00100	"	0.100		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	*0.108*		"	*0.120*		*89.7*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*95.7*	*75-125*			
LCS Dup (P0G0105-BSD1)				Prepared & Analyzed: 07/01/20						
Benzene	0.100	0.00100	mg/kg wet	0.100		100	70-130	6.53	20	
Toluene	0.100	0.00100	"	0.100		100	70-130	8.04	20	
Ethylbenzene	0.0981	0.00100	"	0.100		98.1	70-130	2.91	20	
Xylene (p/m)	0.204	0.00200	"	0.200		102	70-130	8.30	20	
Xylene (o)	0.109	0.00100	"	0.100		109	70-130	10.7	20	
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*95.5*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.110*		"	*0.120*		*92.0*	*75-125*			
Calibration Blank (P0G0105-CCB1)				Prepared & Analyzed: 07/01/20						
Benzene	0.00		mg/kg wet							
Toluene	0.470		"							
Ethylbenzene	0.320		"							
Xylene (p/m)	0.640		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.113*		"	*0.120*		*94.3*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.113*		"	*0.120*		*94.6*	*75-125*			

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BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0105 - General Preparation (GC)										
Calibration Blank (P0G0105-CCB2)				Prepared & Analyzed: 07/01/20						
Benzene	0.330		mg/kg wet							
Toluene	0.680		"							
Ethylbenzene	0.530		"							
Xylene (p/m)	3.19		"							
Xylene (o)	0.800		"							
Surrogate: 1,4-Difluorobenzene	*0.113*		"	*0.120*		*93.8*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.110*		"	*0.120*		*91.4*	*75-125*			
Calibration Blank (P0G0105-CCB3)				Prepared: 07/01/20 Analyzed: 07/02/20						
Benzene	0.00		mg/kg wet							
Toluene	0.940		"							
Ethylbenzene	0.830		"							
Xylene (p/m)	1.70		"							
Xylene (o)	0.690		"							
Surrogate: 1,4-Difluorobenzene	*0.114*		"	*0.120*		*95.4*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.106*		"	*0.120*		*88.7*	*75-125*			
Calibration Check (P0G0105-CCV1)				Prepared & Analyzed: 07/01/20						
Benzene	0.0967	0.00100	mg/kg wet	0.100		96.7	80-120			
Toluene	0.0949	0.00100	"	0.100		94.9	80-120			
Ethylbenzene	0.0988	0.00100	"	0.100		98.8	80-120			
Xylene (p/m)	0.193	0.00200	"	0.200		96.4	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	*0.110*		"	*0.120*		*91.8*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*95.7*	*75-125*			
Calibration Check (P0G0105-CCV2)				Prepared & Analyzed: 07/01/20						
Benzene	0.0981	0.00100	mg/kg wet	0.100		98.1	80-120			
Toluene	0.105	0.00100	"	0.100		105	80-120			
Ethylbenzene	0.0969	0.00100	"	0.100		96.9	80-120			
Xylene (p/m)	0.208	0.00200	"	0.200		104	80-120			
Xylene (o)	0.0996	0.00100	"	0.100		99.6	80-120			
Surrogate: 4-Bromofluorobenzene	*0.104*		"	*0.120*		*86.4*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*95.9*	*75-125*			

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Project: Duck Hunt Central Battery Release
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BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0105 - General Preparation (GC)										
Calibration Check (P0G0105-CCV3)				Prepared: 07/01/20 Analyzed: 07/02/20						
Benzene	0.103	0.00100	mg/kg wet	0.100		103	80-120			
Toluene	0.100	0.00100	"	0.100		100	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.193	0.00200	"	0.200		96.6	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 1,4-Difluorobenzene	*0.118*		"	*0.120*		*98.2*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.105*		"	*0.120*		*87.5*	*75-125*			
Matrix Spike (P0G0105-MS1)		**Source: 0G01013-06**		Prepared: 07/01/20 Analyzed: 07/02/20						
Benzene	0.0887	0.00104	mg/kg dry	0.104	ND	85.1	80-120			
Toluene	0.0807	0.00104	"	0.104	0.00614	71.5	80-120			QM-10
Ethylbenzene	0.0840	0.00104	"	0.104	0.00539	75.5	80-120			QM-10
Xylene (p/m)	0.147	0.00208	"	0.208	0.0263	58.1	80-120			QM-10
Xylene (o)	0.0791	0.00104	"	0.104	0.0104	66.0	80-120			QM-10
Surrogate: 1,4-Difluorobenzene	*0.122*		"	*0.125*		*97.5*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.109*		"	*0.125*		*87.1*	*75-125*			
Matrix Spike Dup (P0G0105-MSD1)		**Source: 0G01013-06**		Prepared: 07/01/20 Analyzed: 07/02/20						
Benzene	0.0876	0.00104	mg/kg dry	0.104	ND	84.1	80-120	1.25	20	
Toluene	0.0790	0.00104	"	0.104	0.00614	69.9	80-120	2.29	20	QM-10
Ethylbenzene	0.0830	0.00104	"	0.104	0.00539	74.5	80-120	1.29	20	QM-10
Xylene (p/m)	0.146	0.00208	"	0.208	0.0263	57.4	80-120	1.20	20	QM-10
Xylene (o)	0.0800	0.00104	"	0.104	0.0104	66.8	80-120	1.24	20	QM-10
Surrogate: 4-Bromofluorobenzene	*0.108*		"	*0.125*		*86.6*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.122*		"	*0.125*		*97.4*	*75-125*			

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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0202 - * DEFAULT PREP *** **										
Blank (P0G0202-BLK1)				Prepared & Analyzed: 07/02/20						
% Moisture	ND	0.1	%							
Blank (P0G0202-BLK2)				Prepared & Analyzed: 07/02/20						
% Moisture	ND	0.1	%							
Duplicate (P0G0202-DUP1)		**Source: 0G01003-01**		Prepared & Analyzed: 07/02/20						
% Moisture	11.0	0.1	%		11.0			0.00	20	
Duplicate (P0G0202-DUP2)		**Source: 0G01003-11**		Prepared & Analyzed: 07/02/20						
% Moisture	7.0	0.1	%		7.0			0.00	20	
Duplicate (P0G0202-DUP3)		**Source: 0G01004-01**		Prepared & Analyzed: 07/02/20						
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P0G0202-DUP4)		**Source: 0G01009-05**		Prepared & Analyzed: 07/02/20						
% Moisture	10.0	0.1	%		13.0			26.1	20	R
Duplicate (P0G0202-DUP5)		**Source: 0G01011-01**		Prepared & Analyzed: 07/02/20						
% Moisture	5.0	0.1	%		7.0			33.3	20	R
Duplicate (P0G0202-DUP6)		**Source: 0G01011-11**		Prepared & Analyzed: 07/02/20						
% Moisture	5.0	0.1	%		5.0			0.00	20	
Duplicate (P0G0202-DUP7)		**Source: 0G01012-11**		Prepared & Analyzed: 07/02/20						
% Moisture	4.0	0.1	%		3.0			28.6	20	R
Duplicate (P0G0202-DUP8)		**Source: 0G01013-06**		Prepared & Analyzed: 07/02/20						
% Moisture	6.0	0.1	%		4.0			40.0	20	R

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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0202 - * DEFAULT PREP *** **										
Duplicate (P0G0202-DUP9)		**Source: 0G01013-14**		Prepared & Analyzed: 07/02/20						
% Moisture	8.0	0.1	%		7.0			13.3	20	
Batch P0G0207 - * DEFAULT PREP *** **										
Blank (P0G0207-BLK1)				Prepared & Analyzed: 07/02/20						
Chloride	ND	1.00	mg/kg wet							
LCS (P0G0207-BS1)				Prepared & Analyzed: 07/02/20						
Chloride	408	1.00	mg/kg wet	400		102	80-120			
LCS Dup (P0G0207-BSD1)				Prepared & Analyzed: 07/02/20						
Chloride	406	1.00	mg/kg wet	400		102	80-120	0.538	20	
Calibration Blank (P0G0207-CCB1)				Prepared & Analyzed: 07/02/20						
Chloride	0.00		mg/kg wet							
Calibration Check (P0G0207-CCV1)				Prepared & Analyzed: 07/02/20						
Chloride	19.0		mg/kg	20.0		95.0	0-200			
Calibration Check (P0G0207-CCV2)				Prepared & Analyzed: 07/02/20						
Chloride	18.9		mg/kg	20.0		94.4	0-200			
Calibration Check (P0G0207-CCV3)				Prepared: 07/02/20 Analyzed: 07/03/20						
Chloride	19.0		mg/kg	20.0		95.2	0-200			
Matrix Spike (P0G0207-MS1)		**Source: 0G01003-17**		Prepared & Analyzed: 07/02/20						
Chloride	10000	28.1	mg/kg dry	2810	7280	97.5	80-120			

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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0207 - * DEFAULT PREP *****										
Matrix Spike (P0G0207-MS2)	**Source: 0G01004-02**			Prepared & Analyzed: 07/02/20						
Chloride	969	1.02	mg/kg dry	510	513	89.2	80-120			
Matrix Spike Dup (P0G0207-MSD1)	**Source: 0G01003-17**			Prepared & Analyzed: 07/02/20						
Chloride	10000	28.1	mg/kg dry	2810	7280	98.1	80-120	0.185	20	
Matrix Spike Dup (P0G0207-MSD2)	**Source: 0G01004-02**			Prepared & Analyzed: 07/02/20						
Chloride	978	1.02	mg/kg dry	510	513	91.0	80-120	0.911	20	

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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0103 - TX 1005										
Blank (P0G0103-BLK1)				Prepared & Analyzed: 07/01/20						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*94.5*		"	*100*		*94.5*	*70-130*			
Surrogate: o-Terphenyl	*42.3*		"	*50.0*		*84.6*	*70-130*			
LCS (P0G0103-BS1)				Prepared & Analyzed: 07/01/20						
C6-C12	771	25.0	mg/kg wet	1000		77.1	75-125			
>C12-C28	864	25.0	"	1000		86.4	75-125			
Surrogate: 1-Chlorooctane	*109*		"	*100*		*109*	*70-130*			
Surrogate: o-Terphenyl	*38.8*		"	*50.0*		*77.6*	*70-130*			
LCS Dup (P0G0103-BSD1)				Prepared & Analyzed: 07/01/20						
C6-C12	754	25.0	mg/kg wet	1000		75.4	75-125	2.21	20	
>C12-C28	845	25.0	"	1000		84.5	75-125	2.22	20	
Surrogate: 1-Chlorooctane	*92.9*		"	*100*		*92.9*	*70-130*			
Surrogate: o-Terphenyl	*37.2*		"	*50.0*		*74.5*	*70-130*			
Calibration Blank (P0G0103-CCB1)				Prepared & Analyzed: 07/01/20						
C6-C12	13.2		mg/kg wet							
>C12-C28	24.4		"							
Surrogate: 1-Chlorooctane	*87.2*		"	*100*		*87.2*	*70-130*			
Surrogate: o-Terphenyl	*40.0*		"	*50.0*		*80.0*	*70-130*			
Calibration Blank (P0G0103-CCB2)				Prepared & Analyzed: 07/01/20						
C6-C12	6.29		mg/kg wet							
>C12-C28	15.7		"							
Surrogate: 1-Chlorooctane	*94.4*		"	*100*		*94.4*	*70-130*			
Surrogate: o-Terphenyl	*43.0*		"	*50.0*		*86.0*	*70-130*			

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Duck Hunt Central Battery Release
Project Number: 12469
Project Manager: Matt Green

Fax: (432) 563-2213

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0103 - TX 1005										
Calibration Check (P0G0103-CCV1)				Prepared & Analyzed: 07/01/20						
C6-C12	489	25.0	mg/kg wet	500		97.7	85-115			
>C12-C28	566	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	*90.8*		"	*100*		*90.8*	*70-130*			
Surrogate: o-Terphenyl	*37.9*		"	*50.0*		*75.8*	*70-130*			
Calibration Check (P0G0103-CCV2)				Prepared & Analyzed: 07/01/20						
C6-C12	507	25.0	mg/kg wet	500		101	85-115			
>C12-C28	569	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	*92.3*		"	*100*		*92.3*	*70-130*			
Surrogate: o-Terphenyl	*39.0*		"	*50.0*		*77.9*	*70-130*			
Calibration Check (P0G0103-CCV3)				Prepared: 07/01/20 Analyzed: 07/02/20						
C6-C12	467	25.0	mg/kg wet	500		93.4	85-115			
>C12-C28	562	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	*97.2*		"	*100*		*97.2*	*70-130*			
Surrogate: o-Terphenyl	*40.6*		"	*50.0*		*81.2*	*70-130*			
Matrix Spike (P0G0103-MS1)	**Source: 0G01004-02**			Prepared: 07/01/20 Analyzed: 07/02/20						
C6-C12	976	25.5	mg/kg dry	1020	ND	95.6	75-125			
>C12-C28	1070	25.5	"	1020	52.5	99.4	75-125			
Surrogate: 1-Chlorooctane	*108*		"	*102*		*106*	*70-130*			
Surrogate: o-Terphenyl	*48.7*		"	*51.0*		*95.5*	*70-130*			
Matrix Spike Dup (P0G0103-MSD1)	**Source: 0G01004-02**			Prepared: 07/01/20 Analyzed: 07/02/20						
C6-C12	921	25.5	mg/kg dry	1020	ND	90.3	75-125	5.73	20	
>C12-C28	1030	25.5	"	1020	52.5	95.7	75-125	3.78	20	
Surrogate: 1-Chlorooctane	*125*		"	*102*		*123*	*70-130*			
Surrogate: o-Terphenyl	*46.7*		"	*51.0*		*91.6*	*70-130*			

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Duck Hunt Central Battery Release
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Notes and Definitions

ROI	Received on Ice
R	The RPD exceeded the method control limit. The individual analyte QA/QC recoveries, however, were within acceptance limits.
QM-10	LCS/LCSD were analyzed in place of MS/MSD.
BULK	Samples received in Bulk soil containers
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 7/9/2020

Brent Barron, Laboratory Director/Technical Director

LMD CK 03

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706
Phone: 432-661-4184

Project Manager: Matt Green
Company Name: Etech Environmental and Safety Solutions, Inc.
Company Address: 13000 W CR 100
City/State/Zip: Odessa, Texas 79765
Telephone No: (432)230-3763 Fax No:
Sampler Signature: Matt Green
e-mail: Matt@etechenv.com, wesley@etechenv.com

Project Name: Duck Hunt Central Battery Release
Project #: 12469
Project Loc: Lea County, NM
PO #: Centennial CDEV#: 87539
Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: OG01004

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Spadfy Other	Analyze For: TCLP: TOTAL: 8015B	TPH: 418.1 8015M	TPH: TX 1005 Ext	TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides E 300			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	Bottomhole-2 @ 1.5'			6/26/2020	1430		1	x									S														X				X
2	SSW-1 @ 1'			6/26/2020	1435		1	x									S		X									X			X				X

Special Instructions:
Bill to Centennial Resource

	Date	Time		Date	Time
Relinquished by: Matt Green			Received by:		
Relinquished by:	6/30	4:40	Received by:		
Relinquished by:	Date	Time	Received by PBEL:	6/30/20	16:40

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s)? Y N
Custody seals on container(s) Y N
Custody seals on cooler(s)? Y N
Sample Hand Delivered Y N
by Sampler/Client Rep. ? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt:
Received: 5.5 °C CF 1
Adjusted: 5.5 °C Factor L2

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

Matt Green
E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa, TX 79765

Project: Duck Hunt Central Battery Release
Project Number: 12469
Location: Lea County, NM

Lab Order Number: 0G08013

NELAP/TCEQ # T104704516-17-8

Report Date: 07/15/20

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Duck Hunt Central Battery Release
Project Number: 12469
Project Manager: Matt Green

Fax: (432) 563-2213

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NSW-1 @ 1'	0G08013-01	Soil	06/29/20 11:30	07-07-2020 16:34
WSW-1 @ 1'	0G08013-02	Soil	06/30/20 08:00	07-07-2020 16:34
ESW-1 @ 1'	0G08013-03	Soil	06/30/20 14:30	07-07-2020 16:34

E Tech Environmental & Safety Solutions, Inc.	Project: Duck Hunt Central Battery Release	Fax: (432) 563-2213
13000 West County Road 100	Project Number: 12469	
Odessa TX, 79765	Project Manager: Matt Green	

NSW-1 @ 1'

0G08013-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*105 %*	*75-125*		*P0G0908*	*07/09/20*	*07/09/20*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.7 %*	*75-125*		*P0G0908*	*07/09/20*	*07/09/20*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**149**	1.02	mg/kg dry	1	P0G1202	07/12/20	07/12/20	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P0G0905	07/09/20	07/09/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P0G0904	07/09/20	07/10/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0G0904	07/09/20	07/10/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0G0904	07/09/20	07/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*115 %*	*70-130*		*P0G0904*	*07/09/20*	*07/10/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*131 %*	*70-130*		*P0G0904*	*07/09/20*	*07/10/20*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	07/09/20	07/10/20	calc	

E Tech Environmental & Safety Solutions, Inc.	Project: Duck Hunt Central Battery Release	Fax: (432) 563-2213
13000 West County Road 100	Project Number: 12469	
Odessa TX, 79765	Project Manager: Matt Green	

WSW-1 @ 1'

0G08013-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.6 %*	*75-125*		*P0G0908*	*07/09/20*	*07/09/20*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*106 %*	*75-125*		*P0G0908*	*07/09/20*	*07/09/20*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**474**	1.04	mg/kg dry	1	P0G1202	07/12/20	07/12/20	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P0G0905	07/09/20	07/09/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P0G0904	07/09/20	07/10/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0G0904	07/09/20	07/10/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0G0904	07/09/20	07/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*119 %*	*70-130*		*P0G0904*	*07/09/20*	*07/10/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*133 %*	*70-130*		*P0G0904*	*07/09/20*	*07/10/20*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	07/09/20	07/10/20	calc	

E Tech Environmental & Safety Solutions, Inc.	Project: Duck Hunt Central Battery Release	Fax: (432) 563-2213
13000 West County Road 100	Project Number: 12469	
Odessa TX, 79765	Project Manager: Matt Green	

ESW-1 @ 1'

0G08013-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*106 %*	*75-125*		*P0G0908*	*07/09/20*	*07/09/20*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.3 %*	*75-125*		*P0G0908*	*07/09/20*	*07/09/20*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**230**	1.01	mg/kg dry	1	P0G1202	07/12/20	07/13/20	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P0G0905	07/09/20	07/09/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P0G0904	07/09/20	07/10/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0G0904	07/09/20	07/10/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0G0904	07/09/20	07/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*111 %*	*70-130*		*P0G0904*	*07/09/20*	*07/10/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*126 %*	*70-130*		*P0G0904*	*07/09/20*	*07/10/20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	07/09/20	07/10/20	calc	

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BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0908 - General Preparation (GC)										
Blank (P0G0908-BLK1)			Prepared & Analyzed: 07/09/20							
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	*0.113*		"	*0.120*		*93.9*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.123*		"	*0.120*		*102*	*75-125*			
LCS (P0G0908-BS1)			Prepared & Analyzed: 07/09/20							
Benzene	0.104	0.00100	mg/kg wet	0.100		104	70-130			
Toluene	0.0982	0.00100	"	0.100		98.2	70-130			
Ethylbenzene	0.101	0.00100	"	0.100		101	70-130			
Xylene (p/m)	0.215	0.00200	"	0.200		108	70-130			
Xylene (o)	0.104	0.00100	"	0.100		104	70-130			
Surrogate: 1,4-Difluorobenzene	*0.118*		"	*0.120*		*98.3*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.120*		"	*0.120*		*99.6*	*75-125*			
LCS Dup (P0G0908-BSD1)			Prepared & Analyzed: 07/09/20							
Benzene	0.110	0.00100	mg/kg wet	0.100		110	70-130	5.83	20	
Toluene	0.105	0.00100	"	0.100		105	70-130	6.65	20	
Ethylbenzene	0.104	0.00100	"	0.100		104	70-130	2.53	20	
Xylene (p/m)	0.228	0.00200	"	0.200		114	70-130	5.81	20	
Xylene (o)	0.112	0.00100	"	0.100		112	70-130	7.53	20	
Surrogate: 4-Bromofluorobenzene	*0.121*		"	*0.120*		*101*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.118*		"	*0.120*		*98.6*	*75-125*			
Calibration Blank (P0G0908-CCB1)			Prepared & Analyzed: 07/09/20							
Benzene	0.00		mg/kg wet							
Toluene	0.730		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.310		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.124*		"	*0.120*		*103*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.114*		"	*0.120*		*95.3*	*75-125*			

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BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0908 - General Preparation (GC)										
Calibration Blank (P0G0908-CCB2)			Prepared & Analyzed: 07/09/20							
Benzene	0.00		mg/kg wet							
Toluene	0.960		"							
Ethylbenzene	0.490		"							
Xylene (p/m)	1.23		"							
Xylene (o)	0.380		"							
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*96.3*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.130*		"	*0.120*		*109*	*75-125*			
Calibration Blank (P0G0908-CCB3)			Prepared & Analyzed: 07/09/20							
Benzene	0.00		mg/kg wet							
Toluene	0.950		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.440		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*96.6*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.106*		"	*0.120*		*87.9*	*75-125*			
Calibration Check (P0G0908-CCV1)			Prepared & Analyzed: 07/09/20							
Benzene	0.103	0.00100	mg/kg wet	0.100		103	80-120			
Toluene	0.0930	0.00100	"	0.100		93.0	80-120			
Ethylbenzene	0.0963	0.00100	"	0.100		96.3	80-120			
Xylene (p/m)	0.198	0.00200	"	0.200		99.2	80-120			
Xylene (o)	0.0989	0.00100	"	0.100		98.9	80-120			
Surrogate: 4-Bromofluorobenzene	*0.115*		"	*0.120*		*95.6*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.117*		"	*0.120*		*97.7*	*75-125*			
Calibration Check (P0G0908-CCV2)			Prepared & Analyzed: 07/09/20							
Benzene	0.110	0.00100	mg/kg wet	0.100		110	80-120			
Toluene	0.102	0.00100	"	0.100		102	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.213	0.00200	"	0.200		106	80-120			
Xylene (o)	0.115	0.00100	"	0.100		115	80-120			
Surrogate: 1,4-Difluorobenzene	*0.120*		"	*0.120*		*100*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.127*		"	*0.120*		*106*	*75-125*			

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Duck Hunt Central Battery Release
Project Number: 12469
Project Manager: Matt Green

Fax: (432) 563-2213

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0908 - General Preparation (GC)										
Calibration Check (P0G0908-CCV3)				Prepared & Analyzed: 07/09/20						
Benzene	0.110	0.00100	mg/kg wet	0.100		110	80-120			
Toluene	0.0996	0.00100	"	0.100		99.6	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.205	0.00200	"	0.200		102	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 4-Bromofluorobenzene	*0.117*		"	*0.120*		*97.1*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.119*		"	*0.120*		*99.0*	*75-125*			
Matrix Spike (P0G0908-MS1)	**Source: 0G08013-01**			Prepared & Analyzed: 07/09/20						
Benzene	0.0782	0.00102	mg/kg dry	0.102	ND	76.6	80-120			QM-07
Toluene	0.0753	0.00102	"	0.102	ND	73.8	80-120			QM-07
Ethylbenzene	0.0958	0.00102	"	0.102	ND	93.9	80-120			
Xylene (p/m)	0.164	0.00204	"	0.204	0.00119	79.8	80-120			QM-07
Xylene (o)	0.0781	0.00102	"	0.102	0.000510	76.0	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	*0.132*		"	*0.122*		*107*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.121*		"	*0.122*		*98.8*	*75-125*			
Matrix Spike Dup (P0G0908-MSD1)	**Source: 0G08013-01**			Prepared & Analyzed: 07/09/20						
Benzene	0.0923	0.00102	mg/kg dry	0.102	ND	90.5	80-120	16.6	20	
Toluene	0.0836	0.00102	"	0.102	ND	82.0	80-120	10.4	20	
Ethylbenzene	0.105	0.00102	"	0.102	ND	103	80-120	9.31	20	
Xylene (p/m)	0.179	0.00204	"	0.204	0.00119	87.0	80-120	8.72	20	
Xylene (o)	0.0880	0.00102	"	0.102	0.000510	85.7	80-120	12.0	20	
Surrogate: 4-Bromofluorobenzene	*0.128*		"	*0.122*		*104*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.122*		"	*0.122*		*99.6*	*75-125*			

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Duck Hunt Central Battery Release
Project Number: 12469
Project Manager: Matt Green

Fax: (432) 563-2213

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0905 - * DEFAULT PREP *** **										
Blank (P0G0905-BLK1)				Prepared & Analyzed: 07/09/20						
% Moisture	ND	0.1	%							
Blank (P0G0905-BLK2)				Prepared & Analyzed: 07/09/20						
% Moisture	ND	0.1	%							
Duplicate (P0G0905-DUP1)		**Source: 0G08002-03**		Prepared & Analyzed: 07/09/20						
% Moisture	11.0	0.1	%		11.0			0.00	20	
Duplicate (P0G0905-DUP2)		**Source: 0G08004-05**		Prepared & Analyzed: 07/09/20						
% Moisture	15.0	0.1	%		14.0			6.90	20	
Duplicate (P0G0905-DUP3)		**Source: 0G08007-07**		Prepared & Analyzed: 07/09/20						
% Moisture	13.0	0.1	%		12.0			8.00	20	
Duplicate (P0G0905-DUP4)		**Source: 0G08008-09**		Prepared & Analyzed: 07/09/20						
% Moisture	ND	0.1	%		ND				20	
Duplicate (P0G0905-DUP5)		**Source: 0G08008-24**		Prepared & Analyzed: 07/09/20						
% Moisture	1.0	0.1	%		2.0			66.7	20	
Duplicate (P0G0905-DUP6)		**Source: 0G08008-34**		Prepared & Analyzed: 07/09/20						
% Moisture	ND	0.1	%		ND				20	
Duplicate (P0G0905-DUP7)		**Source: 0G08009-10**		Prepared & Analyzed: 07/09/20						
% Moisture	13.0	0.1	%		13.0			0.00	20	
Duplicate (P0G0905-DUP8)		**Source: 0G08009-20**		Prepared & Analyzed: 07/09/20						
% Moisture	9.0	0.1	%		9.0			0.00	20	

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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0905 - * DEFAULT PREP *****										
Duplicate (P0G0905-DUP9)		**Source: 0G08009-35**		Prepared & Analyzed: 07/09/20						
% Moisture	8.0	0.1	%		7.0			13.3	20	
Duplicate (P0G0905-DUPA)		**Source: 0G08011-03**		Prepared & Analyzed: 07/09/20						
% Moisture	ND	0.1	%		ND				20	
Duplicate (P0G0905-DUPB)		**Source: 0G08018-01**		Prepared & Analyzed: 07/09/20						
% Moisture	6.0	0.1	%		5.0			18.2	20	
Duplicate (P0G0905-DUPC)		**Source: 0G08022-02**		Prepared & Analyzed: 07/09/20						
% Moisture	13.0	0.1	%		12.0			8.00	20	
Batch P0G1202 - * DEFAULT PREP *****										
LCS (P0G1202-BS1)				Prepared & Analyzed: 07/12/20						
Chloride	411	1.00	mg/kg wet	400		103	80-120			
LCS Dup (P0G1202-BSD1)				Prepared & Analyzed: 07/12/20						
Chloride	408	1.00	mg/kg wet	400		102	80-120	0.676	20	
Calibration Check (P0G1202-CCV1)				Prepared & Analyzed: 07/12/20						
Chloride	19.4		mg/kg	20.0		96.8	0-200			
Calibration Check (P0G1202-CCV2)				Prepared: 07/12/20 Analyzed: 07/13/20						
Chloride	19.5		mg/kg	20.0		97.4	0-200			
Calibration Check (P0G1202-CCV3)				Prepared: 07/12/20 Analyzed: 07/13/20						
Chloride	19.7		mg/kg	20.0		98.5	0-200			

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Duck Hunt Central Battery Release
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Project Manager: Matt Green

Fax: (432) 563-2213

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G1202 - * DEFAULT PREP *** **										
Matrix Spike (P0G1202-MS1)	**Source: 0G08009-40**			Prepared & Analyzed: 07/12/20						
Chloride	3150	5.15	mg/kg dry	515	2610	106	80-120			
Matrix Spike (P0G1202-MS2)	**Source: 0G08022-02**			Prepared: 07/12/20 Analyzed: 07/14/20						
Chloride	587	1.14	mg/kg dry	568	8.45	102	80-120			
Matrix Spike Dup (P0G1202-MSD1)	**Source: 0G08009-40**			Prepared & Analyzed: 07/12/20						
Chloride	3140	5.15	mg/kg dry	515	2610	102	80-120	0.559	20	
Matrix Spike Dup (P0G1202-MSD2)	**Source: 0G08022-02**			Prepared: 07/12/20 Analyzed: 07/14/20						
Chloride	554	1.14	mg/kg dry	568	8.45	96.1	80-120	5.73	20	

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Duck Hunt Central Battery Release
Project Number: 12469
Project Manager: Matt Green

Fax: (432) 563-2213

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0904 - TX 1005										
Blank (P0G0904-BLK1)				Prepared: 07/09/20 Analyzed: 07/10/20						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*99.0*		"	*100*		*99.0*	*70-130*			
Surrogate: o-Terphenyl	*54.9*		"	*50.0*		*110*	*70-130*			
LCS (P0G0904-BS1)				Prepared: 07/09/20 Analyzed: 07/10/20						
C6-C12	962	25.0	mg/kg wet	1000		96.2	75-125			
>C12-C28	1080	25.0	"	1000		108	75-125			
Surrogate: 1-Chlorooctane	*120*		"	*100*		*120*	*70-130*			
Surrogate: o-Terphenyl	*54.8*		"	*50.0*		*110*	*70-130*			
LCS Dup (P0G0904-BSD1)				Prepared: 07/09/20 Analyzed: 07/10/20						
C6-C12	929	25.0	mg/kg wet	1000		92.9	75-125	3.47	20	
>C12-C28	1140	25.0	"	1000		114	75-125	4.91	20	
Surrogate: 1-Chlorooctane	*115*		"	*100*		*115*	*70-130*			
Surrogate: o-Terphenyl	*51.9*		"	*50.0*		*104*	*70-130*			
Calibration Check (P0G0904-CCV1)				Prepared: 07/09/20 Analyzed: 07/10/20						
C6-C12	532	25.0	mg/kg wet	500		106	85-115			
>C12-C28	547	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	*108*		"	*100*		*108*	*70-130*			
Surrogate: o-Terphenyl	*56.0*		"	*50.0*		*112*	*70-130*			
Calibration Check (P0G0904-CCV2)				Prepared: 07/09/20 Analyzed: 07/10/20						
C6-C12	489	25.0	mg/kg wet	500		97.9	85-115			
>C12-C28	547	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	*99.1*		"	*100*		*99.1*	*70-130*			
Surrogate: o-Terphenyl	*50.6*		"	*50.0*		*101*	*70-130*			

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Duck Hunt Central Battery Release
Project Number: 12469
Project Manager: Matt Green

Fax: (432) 563-2213

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0904 - TX 1005										
Matrix Spike (P0G0904-MS1)	**Source: 0G08014-01**			Prepared: 07/09/20 Analyzed: 07/10/20						
C6-C12	1540	26.6	mg/kg dry	1060	21.8	142	75-125			QM-05
>C12-C28	1760	26.6	"	1060	ND	165	75-125			QM-05
Surrogate: 1-Chlorooctane	*109*		"	*106*		*102*	*70-130*			
Surrogate: o-Terphenyl	*57.3*		"	*53.2*		*108*	*70-130*			
Matrix Spike Dup (P0G0904-MSD1)	**Source: 0G08014-01**			Prepared: 07/09/20 Analyzed: 07/10/20						
C6-C12	1580	26.6	mg/kg dry	1060	21.8	146	75-125	2.51	20	QM-05
>C12-C28	1780	26.6	"	1060	ND	168	75-125	1.54	20	QM-05
Surrogate: 1-Chlorooctane	*111*		"	*106*		*105*	*70-130*			
Surrogate: o-Terphenyl	*57.4*		"	*53.2*		*108*	*70-130*			

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
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Project: Duck Hunt Central Battery Release
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Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
ROI	Received on Ice
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
BULK	Samples received in Bulk soil containers
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 7/15/2020

Brent Barron, Laboratory Director/Technical Director

E Tech Environmental & Safety Solutions, Inc.	Project: Duck Hunt Central Battery Release	Fax: (432) 563-2213
13000 West County Road 100	Project Number: 12469	
Odessa TX, 79765	Project Manager: Matt Green	

LKT CK 8/3

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-661-4184

Project Manager: Matt Green
Company Name: Etech Environmental and Safety Solutions, Inc.
Company Address: 13000 W CR 100
City/State/Zip: Odessa, Texas 79765
Telephone No: (432)230-3763 Fax No:
Sampler Signature: Matt Green e-mail: Matt@etechenv.com wesley@etechenv.com

Project Name: Duck Hunt Central Battery Release
Project #: 12469
Project Loc: Lea County, NM
PO #: Centennial CDEV#: 87539
Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: OG08013

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TOTAL: TPH: 8015B	TPH: 418.1	TPH: TX 1005 Ext	TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides E 300		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	NSW-1 @ 1'			6/29/2020	1130		1	x								S	X									X			X			X
2	WSW-1 @ 1'			6/30/2020	800		1	x								S	X									X			X			X
3	ESW-1 @ 1'			6/30/2020	1430		1	x								S	X									X			X			X

Special Instructions:
Bill to Centennial Resource

Relinquished by: Matt Green	Date	Time	Received by:	Date	Time
Relinquished by:	Date 7/7/20	Time 4:31	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL: Mean Dot	Date 7/7/20	Time 4:31

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s) Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered Y N
by Sampler/Client Rep. ? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt:
Received: 4.5 °C
Adjusted: 5.3 °C Factor CF 1.2

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	38633
Application ID	

Release Notification

Responsible Party

Responsible Party: Centennial Resource Production, Inc	OGRID: 372165
Contact Name: Jamon Hohensee	Contact Telephone: 432-241-4283
Contact email: Jamon.Hohensee@cdevinc.com	Incident # *(assigned by OCD)*
Contact mailing address: 500 W. Illinois Ave, Suite 500, Midland, Texas 79705	

Location of Release Source

Latitude 32.33281 Longitude -103.41771
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Duck Hunt 1 State Com CTB	Site Type: Oil Production
Date Release Discovered: 5/12/20	API#

Unit Letter	Section	Township	Range	County
I	01	23S	34E	Lea

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) .16bbls	Volume Recovered (bbls) 0
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	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
On May 12, 2020 there was a small fire (10'x30' area) that occurred on the pad of the Duck Hunt CTB located at 32.33281, -103.41771 from the flare releasing liquids that ignited and fell to the ground. The liquids extinguished themselves with no other damages to any equipment or vegetation.

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Page 2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? A fire occurred from the liquids exiting the flare.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
An email was sent to emnrd_ocd_district1spills@state.nm.us and Jim Griswold on 5-13-2020

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: Jamon Hohensee Title: Sr. Environmental Analyst

Signature: Jamon H. Hohensee Date: 5/19/2020

email: Jamon.hohensee@cdevinc.com Telephone: 432-421-4283

OCD Only

Received by: Date:

Form C-141
Page 3

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?	_____ (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.

Form C-141
Page 4

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: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	
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: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

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ıge 6

State of New Mexico
Oil Conservation Division

Incident ID	NRM2014056966
District RP	
Facility ID	38633
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.

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Printed Name: Jamon Hohensee Title: Sr. Environmental Analyst

Signature: Jamon Hohensee Date: 9-15-20

email: jamon.hohensee@cdevinc.com Telephone: 432-241-4283

OCD Only

Received by: Robert Hamlet Date: 2/24/2021

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

osure Approved by: Robert Hamlet Date: 2/24/2021

nted Name: Robert Hamlet Title: Environmental Specialist - Advanced

From:	Hamlet, Robert, EMNRD
To:	Jamon Hohensee
Cc:	Bratcher, Mike, EMNRD; Eads, Cristina, EMNRD; Hensley, Chad, EMNRD; spills@slo.state.nm.us
Subject:	Closure Approval - Centennial Resources - Duck Hunt 1 St Com CTB - (Incident #NRM2014056966)
Date:	Thursday, February 25, 2021 9:13:00 AM
Attachments:	Closure Approval - Centennial Resources - Duck Hunt 1 St Com CTB - (NRM2014056966).pdf

Jamon,

We have received your closure report and final C-141 for **Incident #NRM2014056966 Duck Hunt 1 St Com CTB**, thank you. This closure is approved.

Please let me know if you have any further questions.

Regards,

Robert Hamlet ● Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 10180

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
CENTENNIAL RESOURCE PRODUCTION	1001 17th Street, Suite 1800	Denver, CO80202	372165	10180	C-141

OCD Reviewer	Condition
rhamlet	We have received your closure report and final C-141 for Incident #NRM2014056966 Duck Hunt 1 St Com CTB, thank you. This closure is approved.