e of New Mexico Incident ID nAPP2302957665

Incident ID nAPP2302957665

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 ite	ems must be included in the closure report.
	NMAC
Photographs of the remediated site prior to backfill or photos of must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of a should their operations have failed to adequately investigate and rem human health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regulat restore, reclaim, and re-vegetate the impacted surface area to the con accordance with 19.15.29.13 NMAC including notification to the OC Printed Name: Mark Ritchie Signature: MArk Ritchie	ediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ions. The responsible party acknowledges they must substantially ditions that existed prior to the release or their final land use in
OCD Only	
Received by: Robert Hamlet	Date:10/6/2023
	of liability should their operations have failed to adequately investigate and vater, human health, or the environment nor does not relieve the responsible r regulations.
Closure Approved by: Robert Hamlet	Date: 10/6/2023
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced



SITE CHARACTERIZATION, ASSESSMENT, REMEDIATION AND CLOSURE REPORT

SHUDDE 27 CTB – FRAC TANK AREA 32.722865, -104.360139 UNIT D, SECTION 26 T18S-R26E EDDY COUNTY, NEW MEXICO NMOCD INCIDENT ID # nAPP2302957665

PREPARED FOR:

SILVERBACK OPERATING 108 S 4TH STREET ARTESIA, NEW MEXICO 88210

PREPARED BY:

RANGER ENVIRONMENTAL SERVICES, LLC.
P.O. BOX 201179
AUSTIN, TEXAS 78720

MAY 10, 2023

Mr. William Kierdorf, REM

Project Manager

Mr. Max Cook, CAPM (TX) Senior Project Manager

TABLE OF CONTENTS

1.0	SITE LOCATION AND BACKGROUND	1
2.0	SITE CHARACTERIZATION	1
2.1	Depth-to-Groundwater	1
2.2	Wellhead Protection Area	2
3.0	SITE ASSESSMENT, REMEDIATION, AND CONFIRMATION SAMPLING	3
3.1	Site Assessment	3
3.2	Site Remediation and Confirmation Sampling	3
3.3	Final Confirmation Sample Results	4
3.4	Waste Disposal	4
4.0	SITE CLOSURE	4
4.1	Site Backfill & Re-seeding	4
4.2	Closure Request	4

FORM C-141

FIGURES

- Topographic Map
- Area Map
- DTGW Information Location Map
- National Wetland Inventory Map
- FEMA Floodplain Map
- Karst Topography Map
- Assessment Sample Location Map
- Final Excavation Area and Confirmation Sample Location Map

TABLES

- Site Assessment Field Screening Summary Table
- Confirmation Sample Soil BTEX (EPA 8260), TPH (EPA 8015) & Chloride (SM 4500)
 Analytical Data

ATTACHMENTS

- Attachment 1 Depth-to-Groundwater Data
- Attachment 2 Photographic Documentation
- Attachment 3 Laboratory Analytical Reports
- Attachment 4 NMOCD Correspondence



SITE CHARACTERIZATION, ASSESSMENT, REMEDIATION AND CLOSURE REPORT SHUDDE 27 CTB – FRAC TANK AREA 32.722865 -104.360139 EDDY COUNTY, NEW MEXICO NMOCD INCIDENT ID #nAPP2302957665

1.0 SITE LOCATION AND BACKGROUND

The Shudde 27 CTB (Site) is located on private property, approximately 8.5 miles south-southeast of Artesia, within Eddy County, New Mexico. The Site is situated in Unit D, Section 26, T18S-R26E at GPS coordinates 32.722865, -104.360139.

On January 29, 2023, a release was discovered at the Site originating from a frac tank temporarily located on the facility pad. The subject tank overflowed resulting in the release of approximately 25 barrels (bbls) of produced water. Upon discovery of the release, immediate action was taken to stop the release of fluids and a vacuum truck was dispatched to the location to recover all available fluids. The released fluids were noted to be contained to the Shudde 27 CTB facility pad boundaries. Due to the volume and nature of the release, the incident was reported to the New Mexico Oil Conservation Division (NMOCD) (NMOCD Incident # nAPP2302957665).

Silverback Operating (Silverback) engaged Ranger Environmental Services, LLC (Ranger) to assist in the remediation efforts at the Site. On March 31, 2023, Ranger personnel and representatives of Silverback conducted an initial assessment of the impacted area. Subsequent to the initial assessment activites, remedial efforts were completed in April 2023 to bring the impacted areas into compliance with NMAC 19.15.29. Due to the on-going remedial efforts at the Site and regulatory deadline of April 29, 2023, Silverback requested a 30-day extension from the NMOCD on April 19, 2023 to allow remedial efforts to be completed to May 29, 2023. On April 20, 2023, NMOCD representatives approved the extension request.

The following report has been prepared to provide details of the site characterization, site assessment, and remedial actions undertaken to address the impacts from the releases.

A copy of the previously submitted Initial C-141 Form Release Notification is attached. Additionally, Site Assessment/Characterization and Closure sections of Form C-141, are attached. A Topographic Map and Area Map noting the location of the subject Site and surrounding areas, and site maps illustrating the Site features and sampling locations, are provided in the Figures section.

2.0 SITE CHARACTERIZATION

2.1 <u>Depth-to-Groundwater</u>

To determine the depth-to-groundwater in the vicinity of the Site, data available from the U.S. Geological Survey (USGS) and the New Mexico Office of the State Engineer (NMOSE) was reviewed. Based upon the reviewed information, one water well (RA 10940) was identified within

a half-mile of the Site. Upon review of the water well data, depth-to-groundwater in the well is documented to be approximately 75 feet below ground surface (bgs). The data is noted to be within the NMOCD acceptable distance and time-frame criteria.

Based upon the reviewed information, the depth-to-groundwater in the area of the Site appears to be approximately 75 feet bgs. Copies of the reviewed depth-to-groundwater information is attached.

2.2 Wellhead Protection Area

Based upon the USGS and NMOSE information, one water source (water well RA 10490) was identified within a half-mile of the Site.

Upon review of the National Wetland Inventory, the impacted area is not within 300 feet of a mapped feature.

The Site and impacted area are outside of the FEMA 100-year flood plain and fall in the area of minimal flood hazard.

The Site area is within an area of "Medium Karst" probability and is noted to be immediately adjacent to an area of "Low Karst" probability.

2.3 <u>Distance to Nearest Significance Watercourse</u>

Based upon available online resources, no significant water courses are located within a half-mile of the site.

2.4 Closure Criteria

Based upon the Site characterization details, and per NMAC 19.15.29.12, the Site was remediated to Table 1 19.15.29.12 NMAC Table 1 (groundwater 51-100 feet) criteria (Table 1 Closure Criteria). Additionally, the remediation activities were conducted to bring the area into compliance with the Restoration, Reclamation and Re-Vegetation Criteria (Restoration Criteria) detailed in NMAC 19.15.29.13. The regulatory criteria are summarized below:

REGULATORY STANDARD	CHLORIDE	TPH (GRO+DRO +MRO)	TPH (GRO+DRO)	втех	BENZENE
19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW 51'-100')	10,000	2,500	1,000	50	10
19.15.29.13 NMAC Restoration, Reclamation and Re-Vegetation (Soils 0'-4')	600	100*		50*	10*

All Values Presented in Parts Per Million (mg/Kg)

^{*}Value derived from the State of New Mexico Energy, Minerals and Natural Resources Department document Procedures for the Implementation of the Spill Rule (19.15.29 NMAC) dated September 6, 2019.

3.0 SITE ASSESSMENT, REMEDIATION, AND CONFIRMATION SAMPLING

3.1 Site Assessment

On March 31, 2023, Ranger personnel and representatives of Silverback completed an assessment of the impacted area to determine the extent of impacts associated with the release. The assessment process included the installation of excavation test holes and the collection of soil samples for field analysis.

During the March 31, 2023 assessment, a total of 12 test excavations (TH-1 through TH-12) were completed. The test excavations were completed to a maximum depth of approximately four feet bgs. During the test hole installation process, soils were field screened by Ranger personnel at the surface and at approximate one-foot intervals using an organic vapor monitor (OVM) and a field chloride titration kit to assist in evaluating soil conditions and/or levels of impacts.

A Assessment Sample Location Map depicting the impacted area and test excavation locations completed during the March 31, 2023 assessment is attached. A table summarizing the field readings collected during the assessment process is also attached.

3.2 Site Remediation and Confirmation Sampling

In order to address the impacts at the Site and bring the location into compliance with NMAC 19.15.29, soil removal operations were completed in April 2023. Based on the information collected during the site assessment activities, initial removal operations were completed to depths and boundaries anticipated to be within the closure criteria. During the excavation process, Ranger personnel collected field readings utilizing an OVM and field chloride titration kit to guide the excavation boundaries and depths.

Upon completion of the soil removal operations, the excavated area was irregular in shape and was documented to have maximum dimensions of approximately 152 feet by 122 feet. The excavation area was completed to depths varying from approximately two to a maximum of four feet bgs.

To confirm that the excavated areas had been completed to appropriate boundaries, a total of 63 cleanup confirmation soil samples were collected along the excavation sidewalls and base as five-part composite samples in accordance with NMAC 19.15.29.12 with each sample representing less than 200 square feet. Cleanup confirmation soil sampling activities were conducted on April 24, 2023. Prior to the cleanup confirmation sampling event, notice was provided to the NMOCD in accordance with NMAC 19.15.29.12(D). A copy of the notification is attached.

Upon collection, the soil samples were submitted to Cardinal Laboratories in Hobbs, New Mexico for analysis of total petroleum hydrocarbons (TPH) using EPA Method 8015; benzene, toluene, ethylbenzene, and xylenes (BTEX) using EPA Method 8021; and, total chloride using SM 4500. The samples were collected and managed using standard QA/QC and chain-of-custody procedures.

A *Final Excavation and Confirmation Sample Location Map* depicting the final excavation boundaries and the cleanup confirmation sample locations is attached.

3.3 Final Confirmation Sample Results

Upon review of the cleanup confirmation laboratory sample results, all areas have been documented to be in attainment of the Restoration, Reclamation and Re-Vegetation criteria detailed in NMAC 19.15.29.13 and/or NMAC 19.15.9.12 Table 1 (DTGW 51'-100') criteria. A comprehensive sample results table summarizing the laboratory analytical results for the cleanup confirmation soil samples attached. A copy of the laboratory analytical report including chain-of-custody documentation is also attached.

3.4 Waste Disposal

All soils generated during the remedial excavation activities were transported and disposed of at the Lea Land disposal facility in Lea County, New Mexico.

4.0 SITE CLOSURE

4.1 Site Backfill & Re-seeding

Based on the cleanup confirmation soil sample results, the excavated area will be backfilled with clean fill material in accordance with NMAC 19.15.29.12 and NMAC 19.15.29.13. The surface portion of the on-pad impact/remediation area will be completed with caliche pad material.

4.2 Closure Request

Based upon the remedial activities preformed as well as the analytical results for the cleanup confirmation soil samples, the Site has been properly addressed pursuant to NMAC 19.15.29 and Silverback respectfully requests closure of the incident. A final C-141 form is attached.

ived by OCD: 5/15/2023	11:17:32 AM	Page 8 of 10
	FORM C-141	

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party OGRID						
Contact Name Contact Te		elephone				
Contact email Incident #		Incident # ((assigned by OCD)			
Contact maili	ing address			•		
			Location	of Release So	ource	
Latitude Longitude			al places)			
Site Name				Site Type		
Date Release	Discovered			API# (if appl	licable)	
Unit Letter	Section	Township	Range	Coun	ty	
Surface Owner: State Federal 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 Release			Volume Recovered (bbls) Volume Recovered (bbls)	
Produced Water Volume Released (bbls) 23.3 (disregard the 25) 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 (des	Other (describe) Volume/Weight Released (provide units)		Volume/Weig	ht Recovered (provide units)		
Cause of Rele	ease					

Received by OCD: 5/15/2023 11:17:32 AM
TOTH C-14-1

Page 2

Oil Conservation Division

	Page (1900) 1)
Incident ID	
District RP	
Facility ID	

		Application ID
	T	
Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respon	sible party consider this a major release?
☐ Yes ☐ No		
If YES, was immediate n	otice given to the OCD? By whom? To wh	nom? When and by what means (phone, email, etc)?
	Initial Re	esponse
The responsible	party must undertake the following actions immediately	y unless they could create a safety hazard that would result in injury
The source of the rela	ease has been stopped.	
	as been secured to protect human health and	the environment
_	-	likes, absorbent pads, or other containment devices.
	ecoverable materials have been removed and	•
If all the actions describe	d above have <u>not</u> been undertaken, explain v	why:
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred blease attach all information needed for closure evaluation.
regulations all operators are	required to report and/or file certain release notif	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have
failed to adequately investig	gate and remediate contamination that pose a three	at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
		Title:
Signature:	k Ritchie	Date:
email:		Telephone:
OCD Only		
Received by: Jocely	n Harimon	Date: 04/25/2023

Received by OCD: 5/15/2023 11:17:32 AM
State of New Mexico
Page 3
Oil Conservation Division

	Page Aleof 105
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 well 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	ls.	

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.

Received by OCD: 5/15/2023 11:17:32 AM
TOTH C-14-1

Page 4

Oil Conservation Division

Page 12cof 108

	8 8 7 7
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:	

Received by OCD: 5/15/2023 11:17:32 AM
State of New Mexico
Page 5
Oil Conservation Division

	Page 13eof 105
Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

D. I. d. Di. Ci. Lii. 4 T. I. C.I. C.II. 1	
Remediation Plan Checklist: Each of the following items must be	pe included in the plan.
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation poin □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29 □ Proposed schedule for remediation (note if remediation plan ting) 	12(C)(4) NMAC
<u>Deferral Requests Only</u> : Each of the following items must be co	nfirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around p deconstruction.	production equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human healt	h, the environment, or groundwater.
rules and regulations all operators are required to report and/or file	acceptance of a C-141 report does not relieve the operator of
Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
Approved	f Approval
Signature:	<u>Date:</u>

Received by OCD: 5/15/2023 11:17:32 AM
State of New Mexico
Page 6 Oil Conservation Division

	Page 14eof 105
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 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially neditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.
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:



Volume Justification Sheet – Silverback Form 018

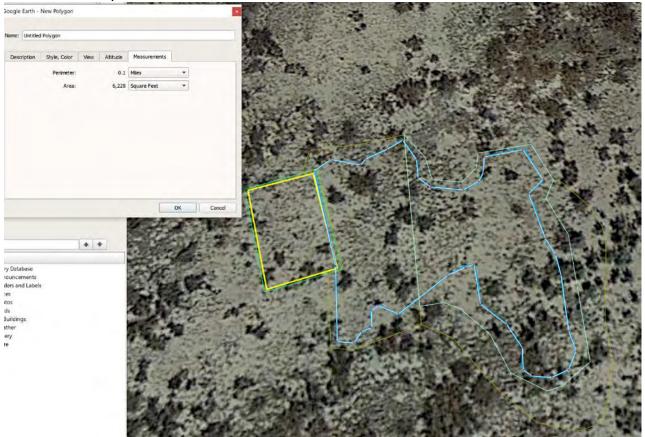
Volume Justification

This form is to be used to convey justification of spill volumes in the event of a release. Clearly indicate by calculations or description in the space provided below.

Justification:

Volume was assumed based on surface area of 6228 sqft and estimated average depth of 0.25 inches which yielded 23.3 bbls. Please note that the recorded volume notes 25bbls, however that number is always just an approximation based on the vac truck tank level.

Below is a snapshot of the surface area which is outlined in blue.



Approved by: Mark Ritchie **Date:** 4/25/2023

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

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 210516

CONDITIONS

Operator:	OGRID:
Silverback Operating II, LLC	330968
19707 IH10 West, Suite 201	Action Number:
San Antonio, TX 78256	210516
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created B		Condition Date
jharimo	None	4/25/2023

	Page 17 of 10	95
Incident ID	nAPP2302957665	
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?	<u>~75'</u> (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 well Field data	lls.	
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		

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.

□ Laboratory data including chain of custody

Received by OCD: 5/15/2023 11:17:32 AM
Form C-141 State of New Mexico
Page 4 Oil Conservation Division

	Page 18 of 105
Incident ID	nAPP2302957665
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. **HSE Manager** Printed Name: Mark Ritchie Title: Signature: MArk Ritchis Date: 5/15/2023 Telephone: <u>2</u>10-874-2406 email: mritchie@silverbackexp.com **OCD Only** Received by: Date: _____

Received by OCD: 5/15/2023 11:17:32 AM Form C-141 State of New Mexico Page 6 Oil Conservation Division

Page 19 of 105
Incident ID nAPP2302957665

Incident ID nAPP2302957665

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 it	tems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
□ Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
□ Laboratory analyses of final sampling (Note: appropriate ODC)	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.
Signature: MArk Ritchis	
	Telephone: 210-874-2406
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	

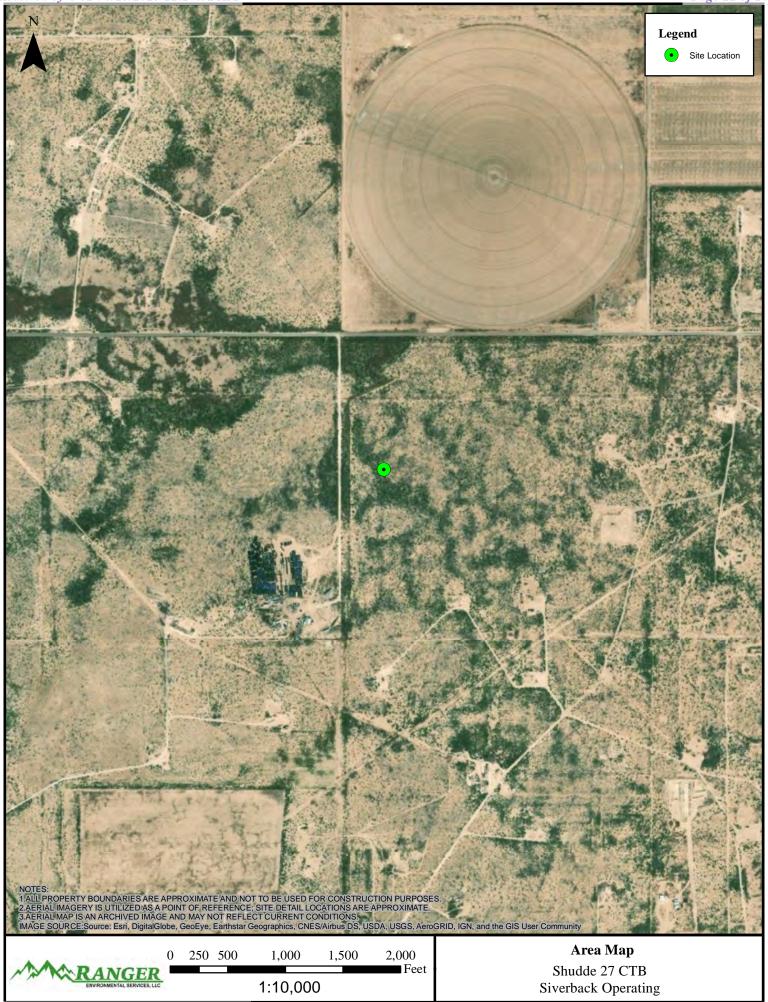
FIGURES

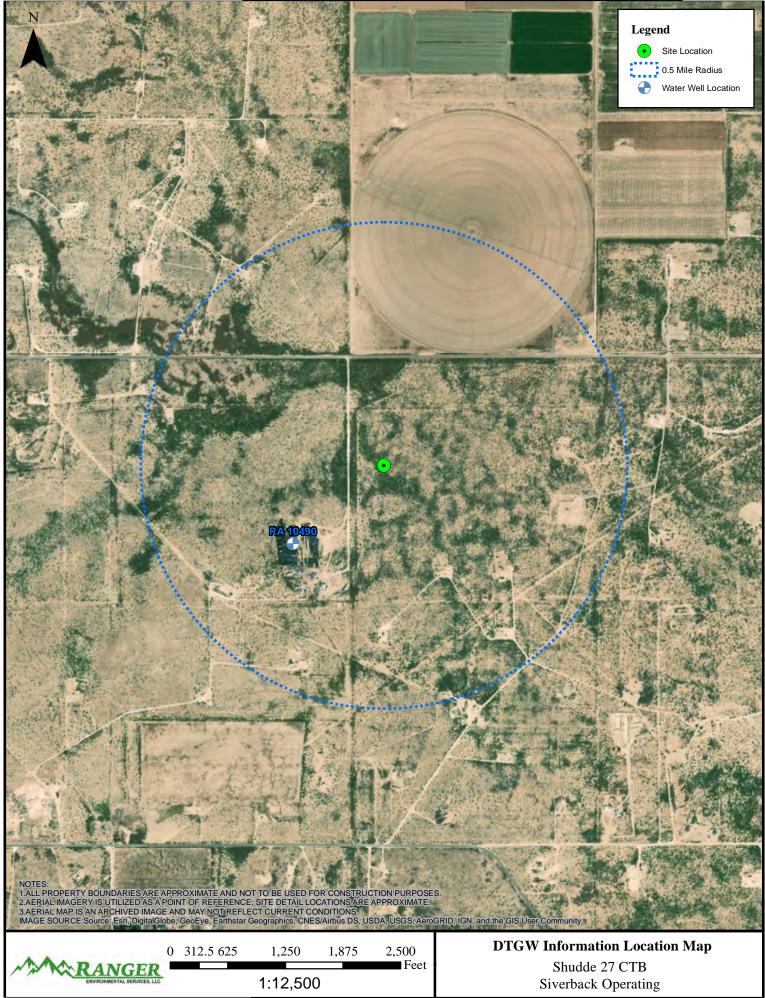
Topographic Map
Area Map
DTGW Information Location Map
National Wetland Inventory Map
FEMA Floodplain Map
Karst Topography Map
Assessment Sample Location Map
Final Excavation Area and Confirmation Sample Location Map

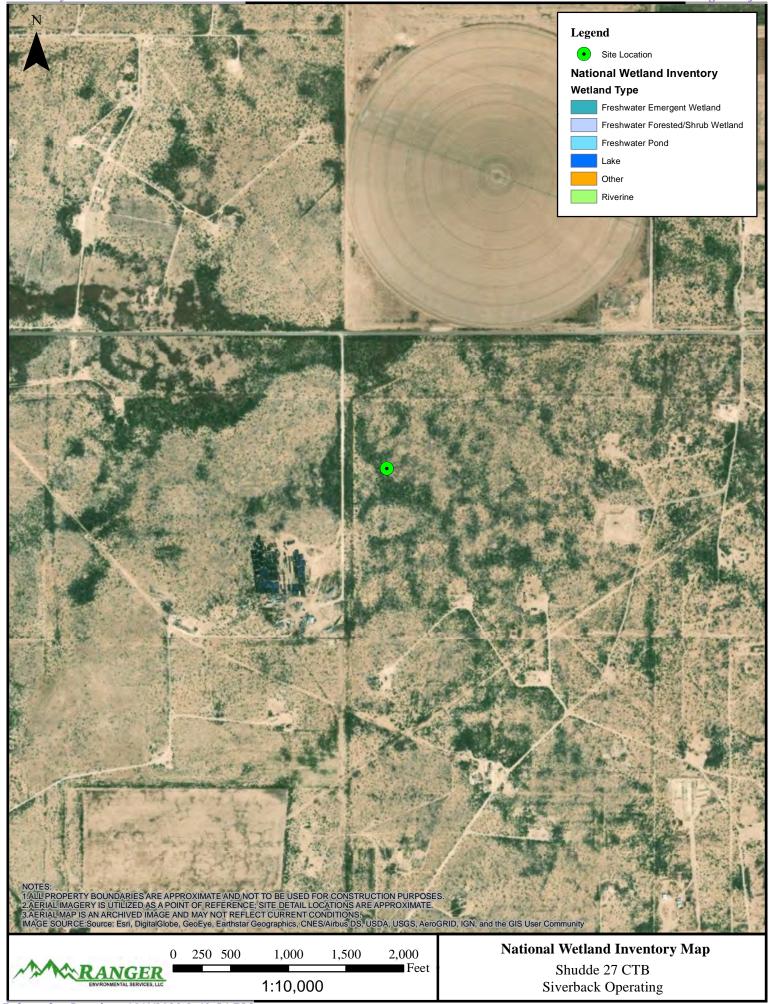
USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road Data; Natural Earth Data; U.S. Department of State Humanitarian Information Unit; and NOAA National Centers for Environmental Information, U.S. Coastal Relief Model. Data refreshed May, 2020.

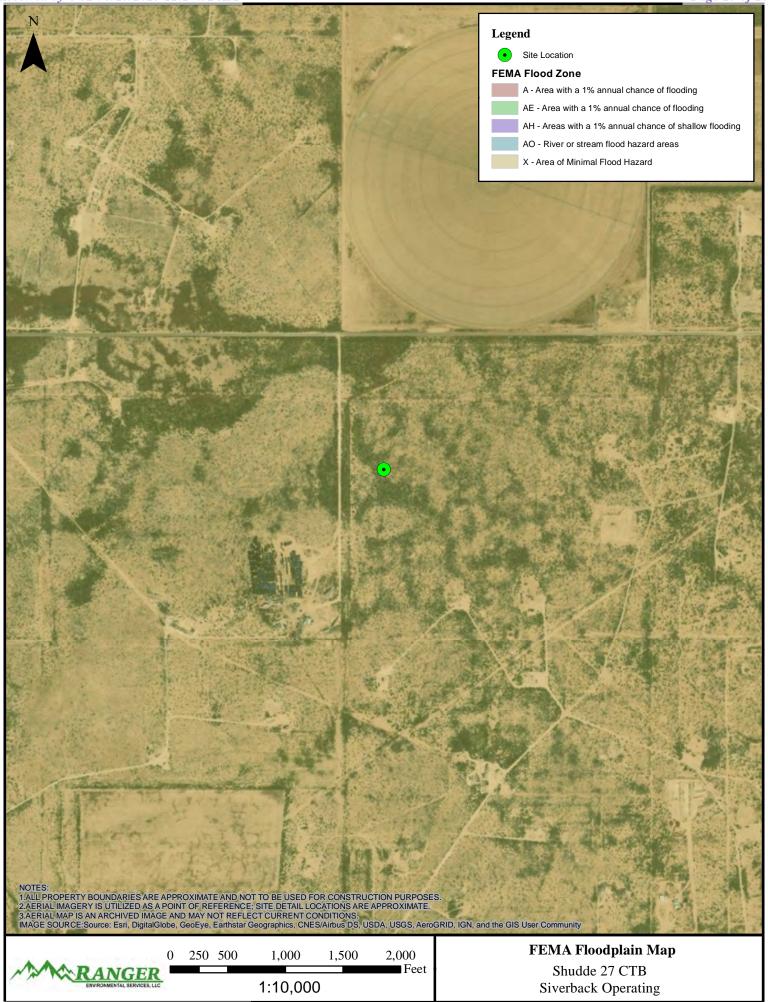
0 600 1,200 2,400 3,600 4,800 Feet 1:24,000

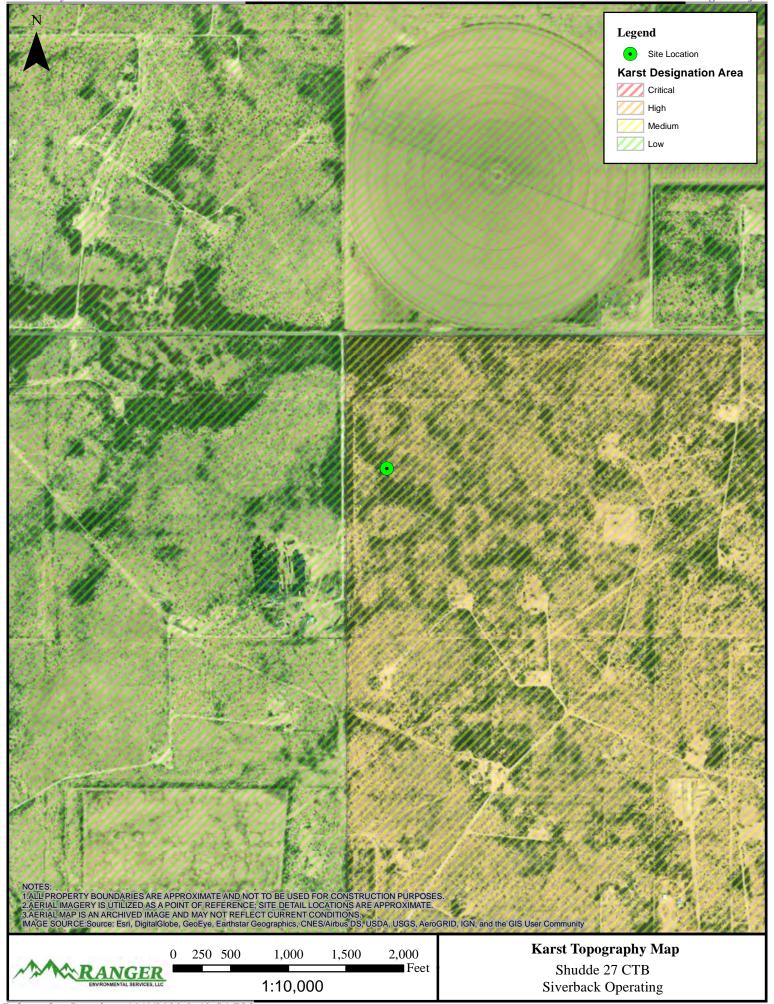
Topographic MapShudde 27 CTB
Siverback Operating

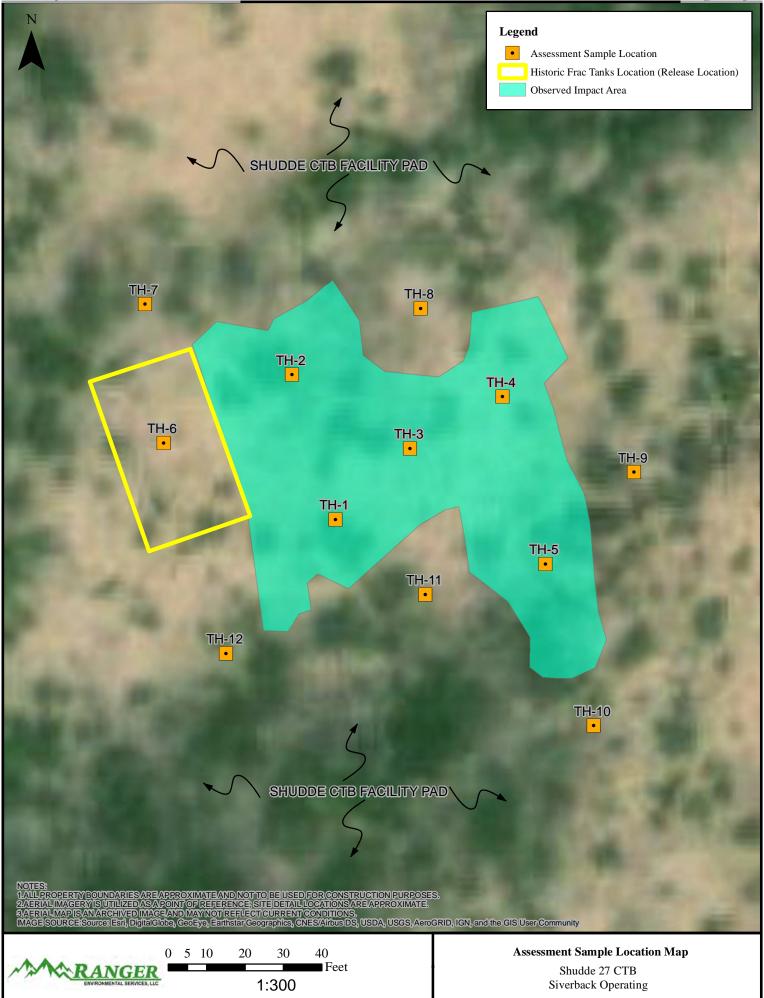


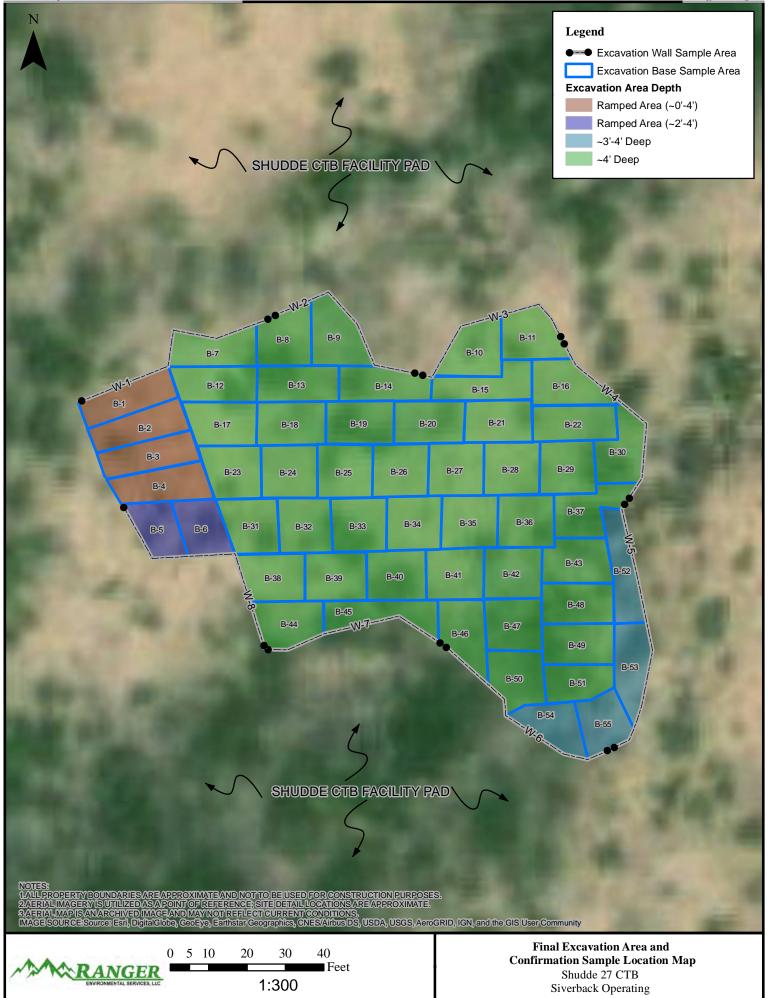












TABLES

Site Assessment Field Screening Summary Table

Confirmation Sample Soil BTEX (EPA 8260), TPH (EPA 8015) & Chloride (SM 4500) Analytical Data

SITE ASSESSMENT FIELD SCREENING SUMMARY TABLE
SILVERBACK OPERATING
SHUDDE 27 CTB

Sample Location	Date	Depth (ft-bgs)	Field Chloride Reading (mg/Kg)	OVM Reading (ppm _v)		
		0'	>3,000	0		
TH-1	2/24/2000	1'	1,950	0		
IH-1	3/31/2023	2' 3'	1,500	0		
		4'	300	0		
		4	300	0		
		0'	>3,000	0		
		1'	1,650	0		
TH-2	3/31/2023	2'	300	0		
=	0,01,2020	3'	150	0		
		4'	150	0		
				-		
		0'	2,700	0		
		1'	600	0		
TH-3	3/31/2023	2'	450	0		
		3'	600	0		
		4'	750	0		
				T		
		0'	>3,000	0		
T	0/04/2222	1'	750	0		
TH-4	3/31/2023	2'	900	0		
		3' 4'	900	0		
		4	900	0		
		0'	>3,000	0		
		1'	3,150	0		
TH-5	3/31/2023	2'	1,200	0		
111-5	3/31/2023	3'	1,350	0		
		4'	1,200	0		
		•	1,200	, ,		
		0'	>3,000	0		
		1'	1,350	0		
TH-6	3/31/2023	2'	300	0		
		3'	450	0		
		4'	450	0		
				i.		
		0'	750	0		
TU 7	0/04/0000	1'	300	0		
TH-7	3/31/2023	2' 3'	300 300	0		
		3 4'	450	0		
			430	U		
		0'	150	0		
		1'	150	0		
TH-8	3/31/2023	2'	300	0		
		3'	300	0		
		4'	300	0		
		0'	>3,000	0		
TUO	2/24/2022	1'	1,050	0		
TH-9	3/31/2023	2'	450	0		
		3' 4'	300	0		
		4	300	0		
		0'	1,800	0		
		1'	600	0		
TH-10	3/31/2023	2'	900	0		
		3'	450	0		
		4'	300	0		
		0'	1,500	0		
		1'	450	0		
TH-11	3/31/2023	2'	450	0		
		3'	300	0		
		4'	300	0		
		O!	200	0		
		0' 1'	300 300	0		
	3/31/2023	2'	150	0		
TH-12						
TH-12	3/31/2023	3'	300	0		

CONFIRMATION SOIL SAMPLE BTEX (EPA 8021), TPH (SW 8015) & CHLORIDE (SM 4500) ANALYTICAL DATA SILVERBACK OPERATING SHUDDE 27 CTB - FRAC TANK AREA

All values presented in parts per million (mg/Kg)

			1	All valu	ies presente	d in parts per	million (mg	/Kg)		1	,	75	_
SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+ MRO)	CHLORIDE
Excavation Side Wall Samples													
W - 1	4/24/2023	0-4'	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432
W - 2	4/24/2023	0-4'	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
W - 3	4/24/2023	0-4'	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
W - 4	4/24/2023	0-4'	<0.050	<0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
W - 5	4/24/2023	0-3'	<0.050	<0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
W - 6	4/24/2023	0-4'	<0.050	<0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
W - 7	4/24/2023	0-4'	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
W - 8	4/24/2023	0-3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
Excavation Base Samples													
B - 1	4/24/2023	0-4'	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
B - 2	4/24/2023	0-4'	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
B - 3	4/24/2023	0-4'	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
B - 4	4/24/2023	0-4'	<0.050	<0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
B - 5	4/24/2023	2'-4'	<0.050	<0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
B - 6	4/24/2023	2'-4'	<0.050	<0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
B - 7	4/24/2023	4'	<0.050	<0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,390
B - 8	4/24/2023	4'	<0.050	<0.050	< 0.050	<0.150	< 0.300	<10.0	18.6	<10.0	18.6	18.6	1,250
B - 9	4/24/2023	4'	<0.050	<0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	992
B - 10	4/24/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	880
B - 11	4/24/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,170
B - 12	4/24/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,070
B - 13	4/24/2023	4'	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,200
B - 14	4/24/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,170
B - 15	4/24/2023	4'	<0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,090
B - 16	4/24/2023	4'	<0.050	<0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,360
B - 17	4/24/2023	4'	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,600
B - 18	4/24/2023	4'	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	880
B - 19	4/24/2023	4'	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,390
B - 20	4/24/2023	4'	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,410
B - 21	4/24/2023	4'	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,120
B - 22	4/24/2023	4'	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	16.6	<10.0	16.6	16.6	2,080
B - 23	4/24/2023	4'	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,300
B - 24	4/24/2023	4'	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,520
B - 25	4/24/2023	4'	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,310
B - 26	4/24/2023	4'	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,000
B - 27	4/24/2023	4'	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,650
B - 28	4/24/2023	4'	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,700
B - 29	4/24/2023	4'	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,740
B - 30	4/24/2023	4'	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,580
B - 31	4/24/2023	4'	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,660
B - 32	4/24/2023	4'	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,160
B - 33	4/24/2023	4'	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,320
B - 34	4/24/2023	4'	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,440
B - 35	4/24/2023	4'	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,680
B - 36	4/24/2023	4'	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,870
B - 37	4/24/2023	4'	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592
B - 38	4/24/2023	4'	< 0.050	< 0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	720
B - 39	4/24/2023	4'	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,400
B - 40	4/24/2023	4'	<0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,620
B - 41	4/24/2023	4'	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,920
B - 42	4/24/2023	4'	< 0.050	< 0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,810
B - 43	4/24/2023	4'	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,500
B - 44	4/24/2023	4'	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,300
B - 45	4/24/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,380
B - 46	4/24/2023	4'	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	14.0	14.8	<10.0	28.8	1,060
B - 47	4/24/2023	4'	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,390
B - 48	4/24/2023	4'	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,460
B - 49	4/24/2023	4'	<0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,880
B - 50	4/24/2023	4'	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,600
B - 51	4/24/2023	4'	<0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	608
B - 52	4/24/2023	3'-4'	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
B - 53	4/24/2023	3'-4'	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
B - 54	4/24/2023	3'-4'	<0.050	< 0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
B - 55	4/24/2023	3'-4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
19.15.29.12 NMAC Table 1 C			10				50				1,000	2,500	10,000
19.15.29.13 NMAC Re	clamation Crit	•	10 ³				50 ³					100 ³	600
(0'-4' Soils	10				JU		- 	- -	- 	100			

Notes

^{1.} Results exceeding the Table 1 Closure Criteria are presented in bold type and are highlighted yellow.

^{2.} Results exceeding the NMAC Restoration, Reclamation and re-vegetation chloride concentration requirements are presented in bold red type.

^{3.} Value derived from the State of New Mexico Energy, Minerals and Natural Resources Department document Procedures for the Implementation of the Spill Rule (19.15.29 NMAC) dated September 6, 2019.

ATTACHMENT 1 – DEPTH-TO-GROUNDWATER INFORMATION



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

Q64 Q16 Q4 Sec Tws Rng

X

RA 10490

18S 26E 27

559659 3620486*

Driller License: 1229 **Driller Company:**

CARTER'S WELL DRILLING

Driller Name: CARTER, RICHARD M.

03/18/2004

Drill Finish Date:

04/20/2004

Plug Date:

Drill Start Date: Log File Date:

PCW Rcv Date:

06/01/2004

Source:

Shallow

Pump Type:

SUBMER

Pipe Discharge Size:

Estimated Yield: 5 GPM

Casing Size:

4.50

Depth Well:

200 feet

Depth Water:

75 feet

Water Bearing Stratifications:

100

Bottom Description Other/Unknown

185

Top

Other/Unknown

Casing Perforations:

Top **Bottom** 100 200

*UTM location was derived from PLSS - see Help

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

4/12/23 7:13 AM

POINT OF DIVERSION SUMMARY



PHOTOGRAPH NO. 1 - A view collected at the Site during the assessment process on March 31, 2023. The view is towards the southwest.

(Approximate GPS Coordinates: 32.723498, -104.359977)



PHOTOGRAPH NO. 2 – A view Site during the remedial excavation activities on April 17, 2023. The view is towards the west.

(Approximate GPS Coordinates: 32.723407, -104.359898)



PHOTOGRAPH NO. 3 - A view of the excavation/remediation area upon completion of the remedial process. The view is towards the east.

(Approximate GPS Coordinates: 32.723465, -104.360405)



PHOTOGRAPH NO. 4 - An additional view of the excavation/remediation area upon completion of the remedial process. The view is towards the southeast. (Approximate GPS Coordinates: 32.723559, -104.360358)



May 02, 2023

WILL KIERDORF

RANGER ENVIRONMENTAL SERVICES, INC.

PO BOX 201179

AUSTIN, TX 78729

RE: SHUDDE 27 CTB

Enclosed are the results of analyses for samples received by the laboratory on 04/26/23 8:39.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact Project Number: 6684 Sample Received By: Tamara Oldaker

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

Sample ID: W - 1 (H232027-01)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2023	ND	1.96	97.8	2.00	0.501	
Toluene*	<0.050	0.050	04/29/2023	ND	1.98	98.9	2.00	0.332	
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	1.99	99.5	2.00	0.0664	
Total Xylenes*	<0.150	0.150	04/29/2023	ND	6.11	102	6.00	0.0477	
Total BTEX	<0.300	0.300	04/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	04/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	213	106	200	4.22	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	210	105	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	93.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: W - 2 (H232027-02)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2023	ND	1.96	97.8	2.00	0.501	
Toluene*	<0.050	0.050	04/29/2023	ND	1.98	98.9	2.00	0.332	
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	1.99	99.5	2.00	0.0664	
Total Xylenes*	<0.150	0.150	04/29/2023	ND	6.11	102	6.00	0.0477	
Total BTEX	<0.300	0.300	04/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	04/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	213	106	200	4.22	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	210	105	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	87.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.1	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: W - 3 (H232027-03)

BTEX 8021B

	9/	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/27/2023	ND	1.66	83.0	2.00	5.19	
Toluene*	<0.050	0.050	04/27/2023	ND	1.94	96.8	2.00	4.13	
Ethylbenzene*	<0.050	0.050	04/27/2023	ND	2.28	114	2.00	3.05	QM-07
Total Xylenes*	<0.150	0.150	04/27/2023	ND	6.94	116	6.00	3.54	QM-07
Total BTEX	<0.300	0.300	04/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	123	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	213	106	200	4.22	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	210	105	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	70.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.4	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: W - 4 (H232027-04)

BTEX 8021B

DILX GOZID	iiig/	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/27/2023	ND	1.66	83.0	2.00	5.19	
Toluene*	<0.050	0.050	04/27/2023	ND	1.94	96.8	2.00	4.13	
Ethylbenzene*	<0.050	0.050	04/27/2023	ND	2.28	114	2.00	3.05	
Total Xylenes*	<0.150	0.150	04/27/2023	ND	6.94	116	6.00	3.54	
Total BTEX	<0.300	0.300	04/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	213	106	200	4.22	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	210	105	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	88.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.0	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: W - 5 (H232027-05)

BTEX 8021B

	9/	9	7111411720	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/27/2023	ND	1.66	83.0	2.00	5.19	
Toluene*	<0.050	0.050	04/27/2023	ND	1.94	96.8	2.00	4.13	
Ethylbenzene*	<0.050	0.050	04/27/2023	ND	2.28	114	2.00	3.05	
Total Xylenes*	<0.150	0.150	04/27/2023	ND	6.94	116	6.00	3.54	
Total BTEX	<0.300	0.300	04/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	125	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	213	106	200	4.22	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	210	105	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	96.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: W - 6 (H232027-06)

BTEX 8021B

	<u> </u>			• •					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/27/2023	ND	1.66	83.0	2.00	5.19	
Toluene*	<0.050	0.050	04/27/2023	ND	1.94	96.8	2.00	4.13	
Ethylbenzene*	<0.050	0.050	04/27/2023	ND	2.28	114	2.00	3.05	
Total Xylenes*	<0.150	0.150	04/27/2023	ND	6.94	116	6.00	3.54	
Total BTEX	<0.300	0.300	04/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	129	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	213	106	200	4.22	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	210	105	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	87.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: 6684 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: W - 7 (H232027-07)

BTEX 8021B

DIEX GOZID	9/	<u> </u>	Allulyzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/27/2023	ND	1.66	83.0	2.00	5.19	
Toluene*	<0.050	0.050	04/27/2023	ND	1.94	96.8	2.00	4.13	
Ethylbenzene*	<0.050	0.050	04/27/2023	ND	2.28	114	2.00	3.05	
Total Xylenes*	<0.150	0.150	04/27/2023	ND	6.94	116	6.00	3.54	
Total BTEX	<0.300	0.300	04/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	213	106	200	4.22	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	210	105	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	90.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.6	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: W - 8 (H232027-08)

BTEX 8021B

	<u> </u>			• •					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/27/2023	ND	1.66	83.0	2.00	5.19	
Toluene*	<0.050	0.050	04/27/2023	ND	1.94	96.8	2.00	4.13	
Ethylbenzene*	<0.050	0.050	04/27/2023	ND	2.28	114	2.00	3.05	
Total Xylenes*	<0.150	0.150	04/27/2023	ND	6.94	116	6.00	3.54	
Total BTEX	<0.300	0.300	04/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	124	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	213	106	200	4.22	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	210	105	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	87.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.7	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 1 (H232027-09)

BTEX 8021B

	9/	9	7111411720						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/27/2023	ND	1.66	83.0	2.00	5.19	
Toluene*	<0.050	0.050	04/27/2023	ND	1.94	96.8	2.00	4.13	
Ethylbenzene*	<0.050	0.050	04/27/2023	ND	2.28	114	2.00	3.05	
Total Xylenes*	<0.150	0.150	04/27/2023	ND	6.94	116	6.00	3.54	
Total BTEX	<0.300	0.300	04/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	213	106	200	4.22	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	210	105	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	83.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.0	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kreene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 2 (H232027-10)

BTEX 8021B

	9/	9	7111411720	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/27/2023	ND	1.66	83.0	2.00	5.19	
Toluene*	<0.050	0.050	04/27/2023	ND	1.94	96.8	2.00	4.13	
Ethylbenzene*	<0.050	0.050	04/27/2023	ND	2.28	114	2.00	3.05	
Total Xylenes*	<0.150	0.150	04/27/2023	ND	6.94	116	6.00	3.54	
Total BTEX	<0.300	0.300	04/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	213	106	200	4.22	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	210	105	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	87.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.5	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 3 (H232027-11)

BTEX 8021B

DIEX GOZID	9/	, kg	Allulyzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/27/2023	ND	1.66	83.0	2.00	5.19	
Toluene*	<0.050	0.050	04/27/2023	ND	1.94	96.8	2.00	4.13	
Ethylbenzene*	<0.050	0.050	04/27/2023	ND	2.28	114	2.00	3.05	
Total Xylenes*	<0.150	0.150	04/27/2023	ND	6.94	116	6.00	3.54	
Total BTEX	<0.300	0.300	04/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	213	106	200	4.22	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	210	105	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	90.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.3	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 4 (H232027-12)

BTEX 8021B

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/27/2023	ND	1.66	83.0	2.00	5.19	
Toluene*	<0.050	0.050	04/27/2023	ND	1.94	96.8	2.00	4.13	
Ethylbenzene*	<0.050	0.050	04/27/2023	ND	2.28	114	2.00	3.05	
Total Xylenes*	<0.150	0.150	04/27/2023	ND	6.94	116	6.00	3.54	
Total BTEX	<0.300	0.300	04/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	213	106	200	4.22	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	210	105	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 5 (H232027-13)

BTEX 8021B

	9/	9	7111411720	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/27/2023	ND	1.66	83.0	2.00	5.19	
Toluene*	<0.050	0.050	04/27/2023	ND	1.94	96.8	2.00	4.13	
Ethylbenzene*	<0.050	0.050	04/27/2023	ND	2.28	114	2.00	3.05	
Total Xylenes*	<0.150	0.150	04/27/2023	ND	6.94	116	6.00	3.54	
Total BTEX	<0.300	0.300	04/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	213	106	200	4.22	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	210	105	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	89.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.2	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 6 (H232027-14)

BTEX 8021B

DIEX GOZID	11197	ng .	Alldiyzo	a by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/27/2023	ND	1.66	83.0	2.00	5.19	
Toluene*	<0.050	0.050	04/27/2023	ND	1.94	96.8	2.00	4.13	
Ethylbenzene*	<0.050	0.050	04/27/2023	ND	2.28	114	2.00	3.05	
Total Xylenes*	<0.150	0.150	04/27/2023	ND	6.94	116	6.00	3.54	
Total BTEX	<0.300	0.300	04/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	213	106	200	4.22	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	210	105	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	88.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.1	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 6684 Tamara Oldaker

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

Sample ID: B - 7 (H232027-15)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/27/2023	ND	1.66	83.0	2.00	5.19	
Toluene*	<0.050	0.050	04/27/2023	ND	1.94	96.8	2.00	4.13	
Ethylbenzene*	<0.050	0.050	04/27/2023	ND	2.28	114	2.00	3.05	
Total Xylenes*	<0.150	0.150	04/27/2023	ND	6.94	116	6.00	3.54	
Total BTEX	<0.300	0.300	04/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	04/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	213	106	200	4.22	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	210	105	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	98.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: Tamara Oldaker 6684

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

Sample ID: B - 8 (H232027-16)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/27/2023	ND	1.66	83.0	2.00	5.19	
Toluene*	<0.050	0.050	04/27/2023	ND	1.94	96.8	2.00	4.13	
Ethylbenzene*	<0.050	0.050	04/27/2023	ND	2.28	114	2.00	3.05	
Total Xylenes*	<0.150	0.150	04/27/2023	ND	6.94	116	6.00	3.54	
Total BTEX	<0.300	0.300	04/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	04/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	213	106	200	4.22	
DRO >C10-C28*	18.6	10.0	04/27/2023	ND	210	105	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	73.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.7	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: 6684 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 9 (H232027-17)

BTEX 8021B

DIEX GOZID	11197	K9	Allulyzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/27/2023	ND	1.66	83.0	2.00	5.19	
Toluene*	<0.050	0.050	04/27/2023	ND	1.94	96.8	2.00	4.13	
Ethylbenzene*	<0.050	0.050	04/27/2023	ND	2.28	114	2.00	3.05	
Total Xylenes*	<0.150	0.150	04/27/2023	ND	6.94	116	6.00	3.54	
Total BTEX	<0.300	0.300	04/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	04/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	213	106	200	4.22	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	210	105	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	74.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.8	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: 6684 Tamara Oldaker

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

Sample ID: B - 10 (H232027-18)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/27/2023	ND	1.66	83.0	2.00	5.19	
Toluene*	<0.050	0.050	04/27/2023	ND	1.94	96.8	2.00	4.13	
Ethylbenzene*	<0.050	0.050	04/27/2023	ND	2.28	114	2.00	3.05	
Total Xylenes*	<0.150	0.150	04/27/2023	ND	6.94	116	6.00	3.54	
Total BTEX	<0.300	0.300	04/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 %	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	04/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	213	106	200	4.22	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	210	105	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	96.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 %	6 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 11 (H232027-19)

BTEX 8021B

	9/	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/27/2023	ND	1.66	83.0	2.00	5.19	
Toluene*	<0.050	0.050	04/27/2023	ND	1.94	96.8	2.00	4.13	
Ethylbenzene*	<0.050	0.050	04/27/2023	ND	2.28	114	2.00	3.05	
Total Xylenes*	<0.150	0.150	04/27/2023	ND	6.94	116	6.00	3.54	
Total BTEX	<0.300	0.300	04/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	04/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	213	106	200	4.22	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	210	105	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	82.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.1	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kreine



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 12 (H232027-20)

BTEX 8021B

	9/	9	7111411720	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/27/2023	ND	1.66	83.0	2.00	5.19	
Toluene*	<0.050	0.050	04/27/2023	ND	1.94	96.8	2.00	4.13	
Ethylbenzene*	<0.050	0.050	04/27/2023	ND	2.28	114	2.00	3.05	
Total Xylenes*	<0.150	0.150	04/27/2023	ND	6.94	116	6.00	3.54	
Total BTEX	<0.300	0.300	04/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	04/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	213	106	200	4.22	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	210	105	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	82.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.7	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: 6684 Tamara Oldaker

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

Sample ID: B - 13 (H232027-21)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/27/2023	ND	1.66	83.0	2.00	5.19	
Toluene*	<0.050	0.050	04/27/2023	ND	1.94	96.8	2.00	4.13	
Ethylbenzene*	<0.050	0.050	04/27/2023	ND	2.28	114	2.00	3.05	
Total Xylenes*	<0.150	0.150	04/27/2023	ND	6.94	116	6.00	3.54	
Total BTEX	<0.300	0.300	04/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	04/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	190	94.8	200	3.85	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	187	93.6	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					
Surrogate: 1-Chlorooctane	92.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.0	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: 6684 Tamara Oldaker

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

Sample ID: B - 14 (H232027-22)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/27/2023	ND	1.66	83.0	2.00	5.19	
Toluene*	<0.050	0.050	04/27/2023	ND	1.94	96.8	2.00	4.13	
Ethylbenzene*	<0.050	0.050	04/27/2023	ND	2.28	114	2.00	3.05	
Total Xylenes*	<0.150	0.150	04/27/2023	ND	6.94	116	6.00	3.54	
Total BTEX	<0.300	0.300	04/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	04/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	190	94.8	200	3.85	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	187	93.6	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					
Surrogate: 1-Chlorooctane	67.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	66.0	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: 6684 Tamara Oldaker

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

Sample ID: B - 15 (H232027-23)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.90	95.0	2.00	2.61	
Toluene*	<0.050	0.050	04/28/2023	ND	2.15	108	2.00	3.52	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.47	124	2.00	4.98	QM-07
Total Xylenes*	<0.150	0.150	04/28/2023	ND	7.49	125	6.00	5.38	QM-07
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	123 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	04/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	190	94.8	200	3.85	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	187	93.6	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					
Surrogate: 1-Chlorooctane	74.8 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.1 9	49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

Sample ID: B - 16 (H232027-24)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.90	95.0	2.00	2.61	
Toluene*	<0.050	0.050	04/28/2023	ND	2.15	108	2.00	3.52	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.47	124	2.00	4.98	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	7.49	125	6.00	5.38	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	04/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	190	94.8	200	3.85	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	187	93.6	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					
Surrogate: 1-Chlorooctane	99.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.7	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 17 (H232027-25)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.90	95.0	2.00	2.61	
Toluene*	<0.050	0.050	04/28/2023	ND	2.15	108	2.00	3.52	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.47	124	2.00	4.98	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	7.49	125	6.00	5.38	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	04/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	190	94.8	200	3.85	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	187	93.6	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	86.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.5	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 18 (H232027-26)

BTEX 8021B

DILX GOZID	11197	, kg	Allulyzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.90	95.0	2.00	2.61	
Toluene*	<0.050	0.050	04/28/2023	ND	2.15	108	2.00	3.52	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.47	124	2.00	4.98	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	7.49	125	6.00	5.38	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	04/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	190	94.8	200	3.85	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	187	93.6	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	77.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.5	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 19 (H232027-27)

BTEX 8021B

	9/	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.90	95.0	2.00	2.61	
Toluene*	<0.050	0.050	04/28/2023	ND	2.15	108	2.00	3.52	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.47	124	2.00	4.98	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	7.49	125	6.00	5.38	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	04/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	190	94.8	200	3.85	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	187	93.6	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 20 (H232027-28)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.90	95.0	2.00	2.61	
Toluene*	<0.050	0.050	04/28/2023	ND	2.15	108	2.00	3.52	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.47	124	2.00	4.98	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	7.49	125	6.00	5.38	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	04/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	190	94.8	200	3.85	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	187	93.6	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	73.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.0	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: 6684 Tamara Oldaker

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

Sample ID: B - 21 (H232027-29)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.90	95.0	2.00	2.61	
Toluene*	<0.050	0.050	04/28/2023	ND	2.15	108	2.00	3.52	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.47	124	2.00	4.98	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	7.49	125	6.00	5.38	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	04/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	190	94.8	200	3.85	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	187	93.6	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	89.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.1	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 22 (H232027-30)

BTEX 8021B

	9/	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.90	95.0	2.00	2.61	
Toluene*	< 0.050	0.050	04/28/2023	ND	2.15	108	2.00	3.52	
Ethylbenzene*	< 0.050	0.050	04/28/2023	ND	2.47	124	2.00	4.98	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	7.49	125	6.00	5.38	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	04/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	190	94.8	200	3.85	
DRO >C10-C28*	16.6	10.0	04/27/2023	ND	187	93.6	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	75.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.6	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 23 (H232027-31)

BTEX 8021B

	9/	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.90	95.0	2.00	2.61	
Toluene*	<0.050	0.050	04/28/2023	ND	2.15	108	2.00	3.52	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.47	124	2.00	4.98	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	7.49	125	6.00	5.38	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	04/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	190	94.8	200	3.85	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	187	93.6	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	56.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	58.5	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 24 (H232027-32)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.90	95.0	2.00	2.61	
Toluene*	<0.050	0.050	04/28/2023	ND	2.15	108	2.00	3.52	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.47	124	2.00	4.98	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	7.49	125	6.00	5.38	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2520	16.0	04/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	190	94.8	200	3.85	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	187	93.6	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 25 (H232027-33)

BTEX 8021B

	9/	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.90	95.0	2.00	2.61	
Toluene*	<0.050	0.050	04/28/2023	ND	2.15	108	2.00	3.52	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.47	124	2.00	4.98	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	7.49	125	6.00	5.38	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1310	16.0	04/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	190	94.8	200	3.85	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	187	93.6	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	80.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.5	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: 6684 Tamara Oldaker

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

Sample ID: B - 26 (H232027-34)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.90	95.0	2.00	2.61	
Toluene*	<0.050	0.050	04/28/2023	ND	2.15	108	2.00	3.52	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.47	124	2.00	4.98	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	7.49	125	6.00	5.38	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	121 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	04/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	190	94.8	200	3.85	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	187	93.6	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	78.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.3	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 27 (H232027-35)

BTEX 8021B

	9/	9	7111411720						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.90	95.0	2.00	2.61	
Toluene*	<0.050	0.050	04/28/2023	ND	2.15	108	2.00	3.52	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.47	124	2.00	4.98	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	7.49	125	6.00	5.38	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1650	16.0	04/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	190	94.8	200	3.85	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	187	93.6	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	92.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.1	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: 6684 Tamara Oldaker

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

Sample ID: B - 28 (H232027-36)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.90	95.0	2.00	2.61	
Toluene*	<0.050	0.050	04/28/2023	ND	2.15	108	2.00	3.52	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.47	124	2.00	4.98	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	7.49	125	6.00	5.38	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1700	16.0	04/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	190	94.8	200	3.85	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	187	93.6	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	76.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.1	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 29 (H232027-37)

BTEX 8021B

DILX GOZID	ıııg,	K9	Allulyzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.90	95.0	2.00	2.61	
Toluene*	<0.050	0.050	04/28/2023	ND	2.15	108	2.00	3.52	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.47	124	2.00	4.98	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	7.49	125	6.00	5.38	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1740	16.0	04/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	190	94.8	200	3.85	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	187	93.6	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	112 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 30 (H232027-38)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.90	95.0	2.00	2.61	
Toluene*	<0.050	0.050	04/28/2023	ND	2.15	108	2.00	3.52	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.47	124	2.00	4.98	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	7.49	125	6.00	5.38	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	04/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	190	94.8	200	3.85	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	187	93.6	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	82.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.8	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 31 (H232027-39)

BTEX 8021B

DIEX GOZID	iiig/	ng .	Allulyzo	a by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.90	95.0	2.00	2.61	
Toluene*	<0.050	0.050	04/28/2023	ND	2.15	108	2.00	3.52	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.47	124	2.00	4.98	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	7.49	125	6.00	5.38	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 71.5-13	34						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1660	16.0	04/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	190	94.8	200	3.85	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	187	93.6	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	34						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	18						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 32 (H232027-40)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.90	95.0	2.00	2.61	
Toluene*	<0.050	0.050	04/28/2023	ND	2.15	108	2.00	3.52	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.47	124	2.00	4.98	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	7.49	125	6.00	5.38	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	04/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	190	94.8	200	3.85	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	187	93.6	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	93.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.1	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: 6684 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 33 (H232027-41)

BTEX 8021B

DILX GOZID	11197	K9	Allulyzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.90	95.0	2.00	2.61	
Toluene*	<0.050	0.050	04/28/2023	ND	2.15	108	2.00	3.52	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.47	124	2.00	4.98	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	7.49	125	6.00	5.38	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	04/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	199	99.3	200	0.340	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	209	105	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 34 (H232027-42)

BTEX 8021B

	9/	9	7111411720						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.90	95.0	2.00	2.61	
Toluene*	<0.050	0.050	04/28/2023	ND	2.15	108	2.00	3.52	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.47	124	2.00	4.98	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	7.49	125	6.00	5.38	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	04/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	199	99.3	200	0.340	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	209	105	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	91.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 35 (H232027-43)

BTEX 8021B

DILX GOZID	ıııg,	K9	Alldiyzo	a by. 5117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.98	98.9	2.00	0.110	
Toluene*	<0.050	0.050	04/28/2023	ND	2.01	101	2.00	0.605	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.02	101	2.00	1.32	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	6.09	101	6.00	1.87	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	04/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	199	99.3	200	0.340	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	209	105	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	92.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: 6684 Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 36 (H232027-44)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.98	98.9	2.00	0.110	
Toluene*	<0.050	0.050	04/28/2023	ND	2.01	101	2.00	0.605	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.02	101	2.00	1.32	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	6.09	101	6.00	1.87	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1870	16.0	04/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	199	99.3	200	0.340	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	209	105	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	92.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: Tamara Oldaker 6684

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

Sample ID: B - 37 (H232027-45)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.98	98.9	2.00	0.110	
Toluene*	<0.050	0.050	04/28/2023	ND	2.01	101	2.00	0.605	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.02	101	2.00	1.32	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	6.09	101	6.00	1.87	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	04/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	199	99.3	200	0.340	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	209	105	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	97.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 38 (H232027-46)

BTEX 8021B

	9/	9	7111411720	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.98	98.9	2.00	0.110	
Toluene*	<0.050	0.050	04/28/2023	ND	2.01	101	2.00	0.605	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.02	101	2.00	1.32	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	6.09	101	6.00	1.87	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	04/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	199	99.3	200	0.340	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	209	105	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	94.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 39 (H232027-47)

BTEX 8021B

	9/	9	7111411720	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.98	98.9	2.00	0.110	
Toluene*	<0.050	0.050	04/28/2023	ND	2.01	101	2.00	0.605	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.02	101	2.00	1.32	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	6.09	101	6.00	1.87	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	04/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	199	99.3	200	0.340	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	209	105	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	96.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: 6684 Tamara Oldaker

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

Sample ID: B - 40 (H232027-48)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.98	98.9	2.00	0.110	
Toluene*	<0.050	0.050	04/28/2023	ND	2.01	101	2.00	0.605	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.02	101	2.00	1.32	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	6.09	101	6.00	1.87	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1620	16.0	04/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	199	99.3	200	0.340	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	209	105	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	82.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.6	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 41 (H232027-49)

BTEX 8021B

DILX GOZID	11197	, kg	Allulyzo	a by. 5117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.98	98.9	2.00	0.110	
Toluene*	<0.050	0.050	04/28/2023	ND	2.01	101	2.00	0.605	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.02	101	2.00	1.32	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	6.09	101	6.00	1.87	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	04/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	199	99.3	200	0.340	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	209	105	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	78.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.8	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: 6684 Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 42 (H232027-50)

BTEX 8021B

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.98	98.9	2.00	0.110	
Toluene*	<0.050	0.050	04/28/2023	ND	2.01	101	2.00	0.605	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.02	101	2.00	1.32	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	6.09	101	6.00	1.87	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1810	16.0	04/28/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	199	99.3	200	0.340	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	209	105	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	79.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.5	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 43 (H232027-51)

BTEX 8021B

	9/	9	7111411720	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.98	98.9	2.00	0.110	
Toluene*	<0.050	0.050	04/28/2023	ND	2.01	101	2.00	0.605	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.02	101	2.00	1.32	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	6.09	101	6.00	1.87	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	04/28/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	199	99.3	200	0.340	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	209	105	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 6684 Tamara Oldaker

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

Sample ID: B - 44 (H232027-52)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.98	98.9	2.00	0.110	
Toluene*	<0.050	0.050	04/28/2023	ND	2.01	101	2.00	0.605	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.02	101	2.00	1.32	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	6.09	101	6.00	1.87	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	04/28/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	199	99.3	200	0.340	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	209	105	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 45 (H232027-53)

BTEX 8021B

	9/	9	71.14.1, = 0	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.98	98.9	2.00	0.110	
Toluene*	<0.050	0.050	04/28/2023	ND	2.01	101	2.00	0.605	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.02	101	2.00	1.32	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	6.09	101	6.00	1.87	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	04/28/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	199	99.3	200	0.340	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	209	105	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	69.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.8	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

Sample ID: B - 46 (H232027-54)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.98	98.9	2.00	0.110	
Toluene*	<0.050	0.050	04/28/2023	ND	2.01	101	2.00	0.605	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.02	101	2.00	1.32	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	6.09	101	6.00	1.87	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	14						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	04/28/2023	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	199	99.3	200	0.340	
DRO >C10-C28*	14.0	10.0	04/27/2023	ND	209	105	200	1.90	
EXT DRO >C28-C36	14.8	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	74.3	% 48.2-13	14						
Surrogate: 1-Chlorooctadecane	82.2	% 49.1-14	18						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 47 (H232027-55)

BTEX 8021B

	9/	9	7111411720	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.98	98.9	2.00	0.110	
Toluene*	<0.050	0.050	04/28/2023	ND	2.01	101	2.00	0.605	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.02	101	2.00	1.32	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	6.09	101	6.00	1.87	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	04/28/2023	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	199	99.3	200	0.340	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	209	105	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	97.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: 6684 Tamara Oldaker

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

Sample ID: B - 48 (H232027-56)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.98	98.9	2.00	0.110	
Toluene*	<0.050	0.050	04/28/2023	ND	2.01	101	2.00	0.605	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.02	101	2.00	1.32	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	6.09	101	6.00	1.87	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	04/28/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	199	99.3	200	0.340	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	209	105	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	70.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.3	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 49 (H232027-57)

BTEX 8021B

	9,	9	7	7: 5::.,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.98	98.9	2.00	0.110	
Toluene*	<0.050	0.050	04/28/2023	ND	2.01	101	2.00	0.605	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.02	101	2.00	1.32	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	6.09	101	6.00	1.87	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	04/28/2023	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	199	99.3	200	0.340	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	209	105	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	98.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

Sample ID: B - 50 (H232027-58)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.98	98.9	2.00	0.110	
Toluene*	<0.050	0.050	04/28/2023	ND	2.01	101	2.00	0.605	
Ethylbenzene*	< 0.050	0.050	04/28/2023	ND	2.02	101	2.00	1.32	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	6.09	101	6.00	1.87	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	04/28/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	199	99.3	200	0.340	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	209	105	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	95.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: 6684 Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 51 (H232027-59)

BTEX 8021B

DILX GOZID	ıııg,	K9	Alldiyzo	a by. 5117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.98	98.9	2.00	0.110	
Toluene*	<0.050	0.050	04/28/2023	ND	2.01	101	2.00	0.605	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.02	101	2.00	1.32	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	6.09	101	6.00	1.87	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B mg/kg		'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	04/28/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	199	99.3	200	0.340	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	209	105	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	92.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Applyzed By: 1H /

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

ma/ka

Sample ID: B - 52 (H232027-60)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.98	98.9	2.00	0.110	
Toluene*	<0.050	0.050	04/28/2023	ND	2.01	101	2.00	0.605	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.02	101	2.00	1.32	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	6.09	101	6.00	1.87	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/28/2023	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	199	99.3	200	0.340	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	209	105	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					
Surrogate: 1-Chlorooctane	92.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 53 (H232027-61)

BTEX 8021B

	9/	9	7111411720	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.98	98.9	2.00	0.110	
Toluene*	<0.050	0.050	04/28/2023	ND	2.01	101	2.00	0.605	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.02	101	2.00	1.32	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	6.09	101	6.00	1.87	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/28/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	195	97.7	200	0.642	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	182	91.1	200	5.77	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					
Surrogate: 1-Chlorooctane	79.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: 6684 Tamara Oldaker

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

Sample ID: B - 54 (H232027-62)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.98	98.9	2.00	0.110	
Toluene*	<0.050	0.050	04/28/2023	ND	2.01	101	2.00	0.605	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.02	101	2.00	1.32	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	6.09	101	6.00	1.87	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/28/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	195	97.7	200	0.642	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	182	91.1	200	5.77	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					
Surrogate: 1-Chlorooctane	80.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.5	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 04/26/2023 Sampling Date: 04/24/2023

Reported: 05/02/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: 6684 Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

Sample ID: B - 55 (H232027-63)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Alldiyzo	.u Dy. 3117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	2.17	108	2.00	10.7	
Toluene*	<0.050	0.050	04/28/2023	ND	2.24	112	2.00	11.2	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.20	110	2.00	10.9	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	6.80	113	6.00	10.6	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B mg/kg		/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/28/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	195	97.7	200	0.642	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	182	91.1	200	5.77	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					
Surrogate: 1-Chlorooctane	82.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.6	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

From: Mark Ritchie <mritchie@silverbackexp.com>
Sent: Wednesday, April 19, 2023 4:04 PM

To: Bratcher, Michael, EMNRD < mike.bratcher@emnrd.nm.gov>

Subject: [EXTERNAL] nAPP2302957685 Confirmation Sample Notice and Extension Request

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Mike, we are finishing up excavation on a straightforward cleanup at the Shudde 27 CTB (nAPP2302957665) and would like to go ahead and make notification that we intend to take confirmation samples Monday morning (4/24/23).

We are also about 10 days away from exceeding the 90 window for the cleanup and as such I would also like to request a 30 day extension. By the time we get the sample results back and are able to get a closure request drafted, we will have exceeded that window.

Respectfully, Mark Ritchie Field Operations Engineer & HSE Manager

Silverback Exploration

19707 IH 10 West Suite 201 San Antonio, TX 78257 C | 713-553-8320 O | 210-874-2406 From: Bratcher, Michael, EMNRD < mike.bratcher@emnrd.nm.gov>

Sent: Thursday, April 20, 2023 8:10 AM

To: Mark Ritchie <mritchie@silverbackexp.com>

Subject: RE: [EXTERNAL] nAPP2302957665 Confirmation Sample Notice and Extension Request

Mark,

Your request for an extension is approved to 5/29/23. Note that only the NOR (Notice of Release) has been submitted at this time. You will need to submit the C-141 ASAP. Sample notification is confirmed.

Thanks.

Mike Bratcher • Incident Supervisor
Environmental Bureau

EMNRD - Oil Conservation Division

506 W. Texas Ave | Artesia, NM 88210

(575) 626-0857 | mike_bratcher@emnrd.nm.gov

http://www.emnrd.nm.gov/ood



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

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 216836

CONDITIONS

Operator:	OGRID:
Silverback Operating II, LLC	330968
19707 IH10 West, Suite 201	Action Number:
San Antonio, TX 78256	216836
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created B	ly Condition	Condition Date
rhamle	We have received your closure report and final C-141 for Incident #NAPP2302957665 SHUDDE 27 CTB, thank you. This closure is approved.	10/6/2023