

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: Fasken Oil and Ranch, Ltd	OGRID: 151416
Contact Name: Aaron Pachlhofer	Contact Telephone: 432-687-1777
Contact email: aaronp@forl.com	Incident # (assigned by OCD): 1RP-5271
Contact mailing address: 6101 Holiday Hill Road, Midland , TX 79707	

Location of Release Source

Latitude 33.027930° Longitude -103.167549°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Denton SWD Trunk Line	Site Type: SWD trunkline
Date Release Discovered 11/4/18	API# (if applicable)

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 50	Volume Recovered (bbls) 30
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Relief pumper for Legacy Operating discovered leak. Fasken foreman Neal Weeks went to location and found leak inside Faskens tinhorn that ties Legacy Denton "A" transfer line into SWD transfer line. A vacuum truck emptied 2 side by side tinhorns and then Weeks shut valve to main swd line to isolate leak. Vacuum truck picked up water from ground. Leak area. Next day (11/5/18) backhoe and gang dug out leak and found 4" drop in meter leaking. Bolts holding meter were eaten up and most were gone. There is a 4" valve coming from main line and 4" meter with no check valve found. Plan to replace valve, remove meter and add check valve.

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Spill over 25 barrels of produced water
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Aaron Pachlhofer called Olivia Yu on 11/5/18 at 7:05 a.m. MST to notify of the leak. Pachlhofer spoke to Olivia approximately at 8:11 MST. Jim Griswold was notified at 8:26 MST.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Aaron Pachlhofer</u> Title: <u>Environmental Coordinator</u>	
Signature: _____ Date: <u>11/8/2018</u>	
email: <u>aaronp@forl.com</u> Telephone: <u>432-687-1777</u>	
<u>OCD Only</u> Received by: _____ Date: _____	

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	70 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

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Printed Name: Aaron PachlhoferTitle: Environmental Coordinator

Signature: _____

Date: 9/10/19email: aaronp@forl.comTelephone: 432-687-1777**OCD Only**

Received by: _____

Date: _____

Incident ID	nCH1834663774
District RP	1RP-5271
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: Aaron Pachlhofer Title: Environmental Coordinator

Signature:  Date: 12/20/19

email: aaronp@forl.com Telephone: _____

432-687-1777

OCD Only

Received by: Cristina Eads Date: 02/07/2020

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

Signature:  Date: 02/13/2020

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Aaron Pachlhofer _____ Title: Environmental Coordinator _____

Signature: _____ Date: 11/8/18 _____

email: aaronp@forl.com _____ Telephone: 432-687-1777 _____

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: _____



6101 Holiday Hill Road
Midland, TX 79707
(432) 687-1777
(432) 687-1570 (FAX)

December 20, 2019

Robert Hamlet
Environmental Specialist
Oil Conservation Division, District 2
811 South Francis Street
Artesia, New Mexico 88210

Work Plan: 1RP-5271– Denton Trunkline Spill Workplan

Mr. Hamlet,

On November 4, 2018 a spill occurred at the Fasken Oil and Ranch (Fasken) Denton Trunkline when an unused meter began leaking due to corrosion. The well location at battery is located at 33.031060°, - 103.180635°. During the spill, an estimated 50 barrels of produced water was released and no crude oil was released. 30 barrels of produced water were recovered according to Fasken operations personnel. The spill occurred in a pasture that is not an active well pad or maintained production site.

Delineation Sampling

On January 30, 2019, six trenches were opened with a backhoe and two samples were collected from each trench: surface and one foot below surface. Laboratory analysis of the samples shows that chloride concentrations are high in the surface samples at TT-1, TT-3, and TT-5, and TT-6. All other sample concentrations are below the NMAC 19.15.29.12, Table 1 concentration of 10,000 mg/kg chloride. A site plan showing these sample locations is included as an attachment.

On July 18, 2019, four borings were advanced with a hollow stem auger mobile drilling machine. Samples were continuously collected by hollow stem auger in two-foot increments. Four samples from each boring were submitted for laboratory analysis, except B-2 where six samples were collected. The maximum concentration for these samples was 4,200 mg/kg chloride in B-2 at 0-2' feet. All other concentrations in all borings were lower, showing a consistent trend of decreasing concentration with depth. Except for B-2, the 20-22' feet sample from each boring was well below 600 mg/kg chloride. At B-2 a concentration of 1,710 was observed at 25 to 27' when the boring was terminated. In accordance with NMAC 19.15.29.11(A)(5)(c) further delineation to 600 mg/kg is not needed. A site plan showing these sample locations is included as an attachment.

A summary table and laboratory reports are included.

Potential Receptors

A network of monitoring wells belonging to Plains Pipeline are nearby the site and one monitoring well exists within the spill area. Fasken contacted Camille Bryant with Plains, who responded that the depth to water is 70 to 75 feet below ground surface., The depth to water is measured at least twice a year.

Mrs. Bryant did not provide detailed tables, but OCD may wish to contact her if additional detailed information is needed. Please note that these wells are installed for a crude oil pipeline release and there is no potable water.

Other potential receptors: There is no nearby surface water. There are no homes or occupied structures within 1 mile of the release. There are no other potential receptors such as a lakebed, sinkhole, playa lake, continually flowing watercourse, spring, fresh water well, or subsurface mine that have been identified within the distances specified on form C-141.

According to NMAC 19.15.29.12, Table 1, the chloride limit is 10,000 mg/kg

Work Plan

The spill area is approximately 11,100 square feet. The spill is adjacent to a previously remediated spill, 1RP-475 (this spill also has 1RP-4169 assigned to it). Fasken proposes a similar work plan:

1. Excavate soil to surface of caliche.
2. Collect confirmation side wall and excavation bottom samples for laboratory analysis as needed. All samples will be field screened prior to laboratory analysis.
3. A hydrovac will be used to ensure complete removal of all contaminated material from the surface of the caliche.
4. Additional sidewall excavation as needed after sample collection and analysis
5. Dispose of excavated soil at properly permitted landfill.
6. Backfill excavation with new soil sourced from land owner.
7. Re-seed with land owner specified seed mix.

Please note that the Plains monitoring well will be left in place. As much soil as possible will be removed without damaging the well. Fasken will work with Plains to determine how close excavation can be conducted to the well casing.

Variances Requested:

Variance 1 Due to the depth to caliche, a variance is requested from conducting a four foot deep excavation. As previously noted, Fasken has conducted excavation projects in this area in the past, and the caliche cannot be penetrated with conventional earth moving equipment. The soil column above the caliche is the root zone that 19.15.29.13(D)(1) is intended to protect. There is no root zone below the caliche at this site. Laboratory analytical data included that is an attachment supports this variance.

Variance 2 Fasken requests to install a 20 mil plastic liner on the surface of the caliche. The installation of a liner will provide greater protection to groundwater than only cleaning the surface of the caliche with a hydrovac.

Variance 3 Fasken requests to collect grab samples at a rate of one sample per 1,000 square feet from the bottom of the excavation. Fasken will collect sidewall samples at a rate of one grab sample per 50 linear feet of sidewall. All samples will be analyzed for chlorides by EPA 300.0 or SM4500 CL B.

If there are any questions or comments, please do not hesitate to contact Aaron Pachlhofer at the letterhead address or 432-687-1777 or aaronp@forl.com.

Thank You,

Aaron Pachlhofer, P.G.
Environmental Coordinator

Depth to groundwater at 1RP-5271

Please note that the following information was submitted to Fasken Oil and Ranch for nearby project 1RP-5270 by environmental consulting company SESI in Hobbs. Please note that most of the wells noted are within ½ mile of 1RP-5271. In particular, MW-16R is within the spill area of 1RP-5271. This monitoring well was installed at the direction of Plains All American Pipeline for a previous release that Plains All American is responsible for. David Boyer at SESI gauged this well on September 30, 2019. As needed, the full gauging history of this well might be available if it is needed by the OCD.

Fasken is also including an email from Camille Bryant at Plains All American Pipeline in reference to the depth to water for all Plains All American

From: [David Boyer](#)
To: [Aaron Pachlhofer](#)
Cc: [Rebecca Pons](#)
Subject: Fasken SWD #2 information
Date: Tuesday, October 08, 2019 6:39:05 PM
Attachments: [Fasken SWD #2 Nearby Water Well Map.pdf](#)

Aaron,

Attached is a map of nearby wells with depth to water and distance from SWD #2.

Some dates are greater than 30 years old, but are include to show water levels were greater than 50 feet at that time. Water levels in the Lea County ground water basin are declining everywhere to pumping, mainly for agriculture. These have been documented historically by numerous USGS and NM State Engineer Studies.

Monitor Well MW-16R is located at site of your Trunkline release and was sampled by me on Monday September 30, 2019

Well ID	Date	DTW (ft.)	Distance (miles)
L 01739	03/1953	55	0.43
L 02268	06/1953	55	0.31
L 02317	08/1953	65	0.48
L 13485	12/2013	103	0.27
L 14299	08/2017	84	0.40
MW-16R	09/2019	67.85	0.82

Also attached is a map composite of all the sampling locations at the SWD #2.

Rebecca should be able to help you if you have additional questions.

David G. Boyer, P.G.
Hydrogeologist
Safety & Environmental Solutions, Inc.
703 East Clinton St.
P.O. Box 1613
Hobbs, New Mexico 88241
(575) 397-0510 (office)
(575) 393-4388 (fax)
(575) 390-7067 (cell)
dgboyer@sesi-nm.com

From: [Camille J Bryant](#)
To: [Aaron Pachlhofer](#)
Subject: DTW
Date: Wednesday, November 07, 2018 4:22:50 PM

Aaron,

As per our discussion this morning regarding depth to groundwater in Section 2, T15S, R37E in Lea County, New Mexico, the depth to water in this area should approximately 70 to 75 feet bgs. This depth is based on monitor wells in the area.

Thanks,

Camille J. Bryant
Remediation Supervisor
Plains All American
505 N. Big Spring, Suite 600
Midland, Texas 79701
Office: 432.221.7924
Cell: 575.441.1099

Attention:

The information contained in this message and/or attachments is intended only for the person or entity to which it is addressed and may contain confidential and/or privileged material. If you received this in error, please contact the Plains Service Desk at 713-646-4444 and delete the material from any system and destroy any copies.

This footnote also confirms that this email message has been scanned for Viruses and Content and cleared.

Fasken Trunkline

Legend

- Test Trenches
- ⊕ Monitor Well 7
- ⬭ Spill Area 4
- 📌 Trunk Line





Fasken Trunkline Release Area

Soil Borings July 18, 2019

Legend

Borehole

Trunkline

1RP-5271 - Denton Trunkline Spill

Location	Date	Cl- (mg/kg)
TT-1 Surface	1/30/2019	52000
TT-1 1'	1/30/2019	6130
TT-2 Surface	1/30/2019	144
TT-2 1'	1/30/2019	3560
TT-3 Surface	1/30/2019	40400
TT-3 1'	1/30/2019	2200
TT-4 Surface	1/30/2019	128
TT-4 1'	1/30/2019	1230
TT-5 Surface	1/30/2019	13500
TT-5 1'	1/30/2019	6400
TT-6 Surface	1/30/2019	40800
TT-6 1'	1/30/2019	3560
B-1 5-7'	7/24/2019	1390
B-1 10-12'	7/24/2019	1100
B-1 15-17'	7/24/2019	832
B-1 20-22'	7/24/2019	176
B-2 0-2'	7/24/2019	4200
B-2 5-7'	7/24/2019	2880
B-2 10-12'	7/24/2019	2040
B-2 15-17'	7/24/2019	1250
B-2 22-24'	7/24/2019	2200
B-2 25-27'	7/24/2019	1710
B-3 0-2'	7/24/2019	1890
B-3 10-12'	7/24/2019	560
B-3 15-17'	7/24/2019	256
B-3 20-22'	7/24/2019	272
B-4 0-2'	7/24/2019	2720
B-4 5-7'	7/24/2019	1310
B-4 10-12'	7/24/2019	64
B-4 15-17'	7/24/2019	32
B-4 20-22'	7/24/2019	16



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

February 04, 2019

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/30/19 16:53.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

 Received: 01/30/2019
 Reported: 02/04/2019
 Project Name: TRUNK LINE
 Project Number: FAS-19-002
 Project Location: NONE GIVEN

 Sampling Date: 01/30/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: TT 1 - SURFACE (H900345-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	52000	16.0	02/02/2019	ND	416	104	400	3.77	

Sample ID: TT 1 - 1' (H900345-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6130	16.0	02/02/2019	ND	416	104	400	3.77	

Sample ID: TT 2 - SURFACE (H900345-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/02/2019	ND	416	104	400	3.77	

Sample ID: TT 2 - 1' (H900345-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3560	16.0	02/02/2019	ND	416	104	400	3.77	

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, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

 Received: 01/30/2019
 Reported: 02/04/2019
 Project Name: TRUNK LINE
 Project Number: FAS-19-002
 Project Location: NONE GIVEN

 Sampling Date: 01/30/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: TT 3 - SURFACE (H900345-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	40400	16.0	02/02/2019	ND	416	104	400	3.77		

Sample ID: TT 3 - 1' (H900345-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2200	16.0	02/02/2019	ND	416	104	400	3.77		

Sample ID: TT 4 - SURFACE (H900345-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	02/02/2019	ND	416	104	400	3.77		

Sample ID: TT 4 - 1' (H900345-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1230	16.0	02/02/2019	ND	416	104	400	3.77		

Sample ID: TT 5 - SURFACE (H900345-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13500	16.0	02/02/2019	ND	416	104	400	3.77		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received: 01/30/2019
Reported: 02/04/2019
Project Name: TRUNK LINE
Project Number: FAS-19-002
Project Location: NONE GIVEN

Sampling Date: 01/30/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TT 5 - 1' (H900345-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6400	16.0	02/02/2019	ND	416	104	400	3.77		

Sample ID: TT 6 - SURFACE (H900345-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	40800	16.0	02/02/2019	ND	416	104	400	3.77	

Sample ID: TT 6 - 1' (H900345-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3560	16.0	02/02/2019	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

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

[illegible]

Page 102



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 2 of 2

Company Name: Safety and Environmental Solutions		P.O. #:		BILL TO												ANALYSIS REQUEST																									
Project Manager: Bob Allen																																									
Address: 703 East Clinton, PO Box 1613		Company: Same																																							
City: Hobbs State: NM Zip: 88240		Attn:																																							
Phone #: 575 397-0510 Fax #: 575 393-4388		Address:																																							
Project #: FAS-19-000 Project Owner:		City:																																							
Project Name: Trunkline		State:																																							
Project Location:		Zip:																																							
Sampler Name: Bob Allen		Phone #:																																							
Fax #:																																									
FOR LAB USE ONLY																																									
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME													
H900345		TT 6 Surface		G		1		X		X		X		X		X		X		X		X		X		1-30		1:05		CHLORIDE											
12		TT 6		G		1		X		X		X		X		X		X		X		X		X		1-30		1:05													

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Relinquished By: [Signature]		Date: 1/30/19		Received By: [Signature]		Date: 1/30/19		Time: 1:05		Sample Condition		CHECKED BY: [Signature]		REMARKS:	
Delivered By: (Circle One)		Date: 1/30/19		Received By: [Signature]		Date: 1/30/19		Time: 1:05		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:	
Sampler - UPS - Bus - Other: 3.50 / #97		Time: 1:05		Time: 1:05		Time: 1:05		Time: 1:05		Time: 1:05		Time: 1:05		Time: 1:05	

email: jzaragoza@sesi-nm.com



July 26, 2019

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: FAS-19-002

Enclosed are the results of analyses for samples received by the laboratory on 07/19/19 16:40.

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

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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:Safety & Environmental Solutions
703 East Clinton
Hobbs NM, 88240Project: FAS-19-002
Project Number: NONE GIVEN
Project Manager: Bob Allen
Fax To: (575) 393-4388Reported:
26-Jul-19 12:05

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B - 1, TL, 0-2'	H902500-01	Soil	18-Jul-19 12:03	19-Jul-19 16:40
B - 1, TL, 5-7'	H902500-02	Soil	18-Jul-19 12:08	19-Jul-19 16:40
B - 1, TL, 10-12'	H902500-03	Soil	18-Jul-19 12:13	19-Jul-19 16:40
B - 1, TL, 15-17'	H902500-04	Soil	18-Jul-19 12:18	19-Jul-19 16:40
B - 1, TL, 20-22'	H902500-05	Soil	18-Jul-19 12:20	19-Jul-19 16:40
B - 2, TL, 0-2'	H902500-06	Soil	18-Jul-19 12:58	19-Jul-19 16:40
B - 2, TL, 5-7'	H902500-07	Soil	18-Jul-19 13:02	19-Jul-19 16:40
B - 2, TL, 10-12'	H902500-08	Soil	18-Jul-19 13:07	19-Jul-19 16:40
B - 2, TL, 15-17'	H902500-09	Soil	18-Jul-19 13:11	19-Jul-19 16:40
B - 2, TL, 22-24'	H902500-10	Soil	18-Jul-19 13:22	19-Jul-19 16:40
B - 2, TL, 25-27'	H902500-11	Soil	18-Jul-19 13:30	19-Jul-19 16:40
B - 3, TL, 0-2'	H902500-12	Soil	18-Jul-19 13:55	19-Jul-19 16:40
B - 3, TL, 10-12'	H902500-13	Soil	18-Jul-19 14:10	19-Jul-19 16:40
B - 3, TL, 15-17'	H902500-14	Soil	18-Jul-19 14:20	19-Jul-19 16:40
B - 3, TL, 20-22'	H902500-15	Soil	18-Jul-19 14:25	19-Jul-19 16:40
B - 4, TL, 0-2'	H902500-16	Soil	18-Jul-19 15:05	19-Jul-19 16:40
B - 4, TL, 5-7'	H902500-17	Soil	18-Jul-19 15:11	19-Jul-19 16:40
B - 4, TL, 10-12'	H902500-18	Soil	18-Jul-19 15:14	19-Jul-19 16:40
B - 4, TL, 15-17'	H902500-19	Soil	18-Jul-19 15:19	19-Jul-19 16:40
B - 4, TL, 20-22'	H902500-20	Soil	18-Jul-19 15:25	19-Jul-19 16:40

Client added chloride to the samples that were originally on hold, -09, -10 and -11. This is the revised report and will replace the one sent on 07/24/19.

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:Safety & Environmental Solutions
703 East Clinton
Hobbs NM, 88240Project: FAS-19-002
Project Number: NONE GIVEN
Project Manager: Bob Allen
Fax To: (575) 393-4388Reported:
26-Jul-19 12:05**B - 1, TL, 0-2'****H902500-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	2080		16.0	mg/kg	4	9072217	AC	23-Jul-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:Safety & Environmental Solutions
703 East Clinton
Hobbs NM, 88240Project: FAS-19-002
Project Number: NONE GIVEN
Project Manager: Bob Allen
Fax To: (575) 393-4388Reported:
26-Jul-19 12:05**B - 1, TL, 5-7'****H902500-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1390		16.0	mg/kg	4	9072306	AC	23-Jul-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:Safety & Environmental Solutions
703 East Clinton
Hobbs NM, 88240Project: FAS-19-002
Project Number: NONE GIVEN
Project Manager: Bob Allen
Fax To: (575) 393-4388Reported:
26-Jul-19 12:05**B - 1, TL, 10-12'****H902500-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1100		16.0	mg/kg	4	9072306	AC	23-Jul-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:Safety & Environmental Solutions
703 East Clinton
Hobbs NM, 88240Project: FAS-19-002
Project Number: NONE GIVEN
Project Manager: Bob Allen
Fax To: (575) 393-4388Reported:
26-Jul-19 12:05**B - 1, TL, 15-17'****H902500-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	832		16.0	mg/kg	4	9072306	AC	23-Jul-19	4500-Cl-B	
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703 East Clinton
Hobbs NM, 88240Project: FAS-19-002
Project Number: NONE GIVEN
Project Manager: Bob Allen
Fax To: (575) 393-4388Reported:
26-Jul-19 12:05**B - 1, TL, 20-22'****H902500-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	9072306	AC	23-Jul-19	4500-Cl-B	
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Analytical Results For:Safety & Environmental Solutions
703 East Clinton
Hobbs NM, 88240Project: FAS-19-002
Project Number: NONE GIVEN
Project Manager: Bob Allen
Fax To: (575) 393-4388Reported:
26-Jul-19 12:05**B - 2, TL, 0-2'****H902500-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	4200		16.0	mg/kg	4	9072306	AC	23-Jul-19	4500-CI-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:Safety & Environmental Solutions
703 East Clinton
Hobbs NM, 88240Project: FAS-19-002
Project Number: NONE GIVEN
Project Manager: Bob Allen
Fax To: (575) 393-4388Reported:
26-Jul-19 12:05**B - 2, TL, 5-7'****H902500-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	2880		16.0	mg/kg	4	9072306	AC	23-Jul-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:Safety & Environmental Solutions
703 East Clinton
Hobbs NM, 88240Project: FAS-19-002
Project Number: NONE GIVEN
Project Manager: Bob Allen
Fax To: (575) 393-4388Reported:
26-Jul-19 12:05**B - 2, TL, 10-12'****H902500-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	2040		16.0	mg/kg	4	9072306	AC	23-Jul-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:Safety & Environmental Solutions
703 East Clinton
Hobbs NM, 88240Project: FAS-19-002
Project Number: NONE GIVEN
Project Manager: Bob Allen
Fax To: (575) 393-4388Reported:
26-Jul-19 12:05**B - 2, TL, 15-17'****H902500-09 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1250		16.0	mg/kg	4	9072306	AC	25-Jul-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:Safety & Environmental Solutions
703 East Clinton
Hobbs NM, 88240Project: FAS-19-002
Project Number: NONE GIVEN
Project Manager: Bob Allen
Fax To: (575) 393-4388Reported:
26-Jul-19 12:05**B - 2, TL, 22-24'****H902500-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	2200		16.0	mg/kg	4	9072306	AC	25-Jul-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:Safety & Environmental Solutions
703 East Clinton
Hobbs NM, 88240Project: FAS-19-002
Project Number: NONE GIVEN
Project Manager: Bob Allen
Fax To: (575) 393-4388Reported:
26-Jul-19 12:05**B - 2, TL, 25-27'****H902500-11 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1710		16.0	mg/kg	4	9072306	AC	25-Jul-19	4500-Cl-B	
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Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:Safety & Environmental Solutions
703 East Clinton
Hobbs NM, 88240Project: FAS-19-002
Project Number: NONE GIVEN
Project Manager: Bob Allen
Fax To: (575) 393-4388Reported:
26-Jul-19 12:05**B - 3, TL, 0-2'****H902500-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1890		16.0	mg/kg	4	9072306	AC	23-Jul-19	4500-Cl-B	
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Analytical Results For:Safety & Environmental Solutions
703 East Clinton
Hobbs NM, 88240Project: FAS-19-002
Project Number: NONE GIVEN
Project Manager: Bob Allen
Fax To: (575) 393-4388Reported:
26-Jul-19 12:05**B - 3, TL, 10-12'****H902500-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	560		16.0	mg/kg	4	9072306	AC	23-Jul-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:Safety & Environmental Solutions
703 East Clinton
Hobbs NM, 88240Project: FAS-19-002
Project Number: NONE GIVEN
Project Manager: Bob Allen
Fax To: (575) 393-4388Reported:
26-Jul-19 12:05**B - 3, TL, 15-17'****H902500-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	256		16.0	mg/kg	4	9072306	AC	23-Jul-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:Safety & Environmental Solutions
703 East Clinton
Hobbs NM, 88240Project: FAS-19-002
Project Number: NONE GIVEN
Project Manager: Bob Allen
Fax To: (575) 393-4388Reported:
26-Jul-19 12:05**B - 3, TL, 20-22'****H902500-15 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	272		16.0	mg/kg	4	9072306	AC	23-Jul-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:Safety & Environmental Solutions
703 East Clinton
Hobbs NM, 88240Project: FAS-19-002
Project Number: NONE GIVEN
Project Manager: Bob Allen
Fax To: (575) 393-4388Reported:
26-Jul-19 12:05**B - 4, TL, 0-2'****H902500-16 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	2720		16.0	mg/kg	4	9072306	AC	23-Jul-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:Safety & Environmental Solutions
703 East Clinton
Hobbs NM, 88240Project: FAS-19-002
Project Number: NONE GIVEN
Project Manager: Bob Allen
Fax To: (575) 393-4388Reported:
26-Jul-19 12:05**B - 4, TL, 5-7'****H902500-17 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1310		16.0	mg/kg	4	9072306	AC	23-Jul-19	4500-Cl-B	
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Analytical Results For:Safety & Environmental Solutions
703 East Clinton
Hobbs NM, 88240Project: FAS-19-002
Project Number: NONE GIVEN
Project Manager: Bob Allen
Fax To: (575) 393-4388Reported:
26-Jul-19 12:05**B - 4, TL, 10-12'****H902500-18 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	9072306	AC	23-Jul-19	4500-Cl-B	
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Analytical Results For:Safety & Environmental Solutions
703 East Clinton
Hobbs NM, 88240Project: FAS-19-002
Project Number: NONE GIVEN
Project Manager: Bob Allen
Fax To: (575) 393-4388Reported:
26-Jul-19 12:05**B - 4, TL, 15-17'****H902500-19 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	9072306	AC	23-Jul-19	4500-Cl-B	
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Analytical Results For:Safety & Environmental Solutions
703 East Clinton
Hobbs NM, 88240Project: FAS-19-002
Project Number: NONE GIVEN
Project Manager: Bob Allen
Fax To: (575) 393-4388Reported:
26-Jul-19 12:05**B - 4, TL, 20-22'****H902500-20 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	9072306	AC	23-Jul-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Safety & Environmental Solutions
703 East Clinton
Hobbs NM, 88240

Project: FAS-19-002
Project Number: NONE GIVEN
Project Manager: Bob Allen
Fax To: (575) 393-4388

Reported:
26-Jul-19 12:05

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9072217 - 1:4 DI Water

Blank (9072217-BLK1)

Prepared & Analyzed: 22-Jul-19

Chloride	ND	16.0	mg/kg
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LCS (9072217-BS1)

Prepared & Analyzed: 22-Jul-19

Chloride	400	16.0	mg/kg	400	100	80-120
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LCS Dup (9072217-BSD1)

Prepared & Analyzed: 22-Jul-19

Chloride	416	16.0	mg/kg	400	104	80-120	3.92	20
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Batch 9072306 - 1:4 DI Water

Blank (9072306-BLK1)

Prepared & Analyzed: 23-Jul-19

Chloride	ND	16.0	mg/kg
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LCS (9072306-BS1)

Prepared & Analyzed: 23-Jul-19

Chloride	432	16.0	mg/kg	400	108	80-120
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LCS Dup (9072306-BSD1)

Prepared & Analyzed: 23-Jul-19

Chloride	416	16.0	mg/kg	400	104	80-120	3.77	20
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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

Company Name: Safety and Environmental Solutions		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Bob Allen		Company: Same					
Address: 703 East Clinton, PO Box 1613		Attn:					
City: Hobbs		Address:					
Phone #: 575 397-0510		City:					
Fax #: 575 393-4388		State:					
Project #: FAS-19-002		Zip:					
Project Owner:		Phone #:					
Project Name:		Fax #:					
Project Location: Hobbs, NM		DATE					
Sample Name: DAVID BEYER		TIME					
FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING	
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS	
				GROUNDWATER		WASTEWATER	
				SOIL		OIL	
				SLUDGE		OTHER :	
				ACID/BASE:		ICE / COOL	
				OTHER :			
				DATE		TIME	
H962500		B-1, +Lg D-2'		7/18		1303	
01		5-7'		7/18		1308	
02		10-12'		7/18		1313	
03		15-17'		7/18		1318	
04		20-22'		7/18		1323	
05		25-27'		7/18		1328	
06		30-32'		7/18		1333	
07		35-37'		7/18		1338	
08		40-42'		7/18		1343	
09		45-47'		7/18		1348	
10		50-52'		7/18		1353	
11		55-57'		7/18		1358	
12		60-62'		7/18		1363	
13		65-67'		7/18		1368	
14		70-72'		7/18		1373	
15		75-77'		7/18		1378	
16		80-82'		7/18		1383	
17		85-87'		7/18		1388	
18		90-92'		7/18		1393	
19		95-97'		7/18		1398	
20		100-102'		7/18		1403	
21		105-107'		7/18		1408	
22		110-112'		7/18		1413	
23		115-117'		7/18		1418	
24		120-122'		7/18		1423	
25		125-127'		7/18		1428	
26		130-132'		7/18		1433	
27		135-137'		7/18		1438	
28		140-142'		7/18		1443	
29		145-147'		7/18		1448	
30		150-152'		7/18		1453	
31		155-157'		7/18		1458	
32		160-162'		7/18		1463	
33		165-167'		7/18		1468	
34		170-172'		7/18		1473	
35		175-177'		7/18		1478	
36		180-182'		7/18		1483	
37		185-187'		7/18		1488	
38		190-192'		7/18		1493	
39		195-197'		7/18		1498	
40		200-202'		7/18		1503	
41		205-207'		7/18		1508	
42		210-212'		7/18		1513	
43		215-217'		7/18		1518	
44		220-222'		7/18		1523	
45		225-227'		7/18		1528	
46		230-232'		7/18		1533	
47		235-237'		7/18		1538	
48		240-242'		7/18		1543	
49		245-247'		7/18		1548	
50		250-252'		7/18		1553	
51		255-257'		7/18		1558	
52		260-262'		7/18		1563	
53		265-267'		7/18		1568	
54		270-272'		7/18		1573	
55		275-277'		7/18		1578	
56		280-282'		7/18		1583	
57		285-287'		7/18		1588	
58		290-292'		7/18		1593	
59		295-297'		7/18		1598	
60		300-302'		7/18		1603	
61		305-307'		7/18		1608	
62		310-312'		7/18		1613	
63		315-317'		7/18		1618	
64		320-322'		7/18		1623	
65		325-327'		7/18		1628	
66		330-332'		7/18		1633	
67		335-337'		7/18		1638	
68		340-342'		7/18		1643	
69		345-347'		7/18		1648	
70		350-352'		7/18		1653	
71		355-357'		7/18		1658	
72		360-362'		7/18		1663	
73		365-367'		7/18		1668	
74		370-372'		7/18		1673	
75		375-377'		7/18		1678	
76		380-382'		7/18		1683	
77		385-387'		7/18		1688	
78		390-392'		7/18		1693	
79		395-397'		7/18		1698	
80		400-402'		7/18		1703	
81		405-407'		7/18		1708	
82		410-412'		7/18		1713	
83		415-417'		7/18		1718	
84		420-422'		7/18		1723	
85		425-427'		7/18		1728	
86		430-432'		7/18		1733	
87		435-437'		7/18		1738	
88		440-442'		7/18		1743	
89		445-447'		7/18		1748	
90		450-452'		7/18		1753	
91		455-457'		7/18		1758	
92		460-462'		7/18		1763	
93		465-467'		7/18		1768	
94		470-472'		7/18		1773	
95		475-477'		7/18		1778	
96		480-482'		7/18		1783	
97		485-487'		7/18		1788	
98		490-492'		7/18		1793	
99		495-497'		7/18		1798	
100		500-502'		7/18		1803	
101		505-507'		7/18		1808	
102		510-512'		7/18		1813	
103		515-517'		7/18		1818	
104		520-522'		7/18		1823	
105		525-527'		7/18		1828	
106		530-532'		7/18		1833	
107		535-537'		7/18		1838	
108		540-542'		7/18		1843	
109		545-547'		7/18		1848	
110		550-552'		7/18		1853	
111		555-557'		7/18		1858	
112		560-562'		7/18		1863	
113		565-567'		7/18		1868	
114		570-572'		7/18		1873	
115		575-577'		7/18		1878	
116		580-582'		7/18		1883	
117		585-587'		7/18		1888	
118		590-592'		7/18		1893	
119		595-597'		7/18		1898	
120		600-602'		7/18		1903	
121		605-607'		7/18		1908	
122		610-612'		7/18		1913	
123		615-617'		7/18		1918	
124		620-622'		7/18		1923	
125		625-627'		7/18		1928	
126		630-632'		7/18		1933	
127		635-637'		7/18		1938	
128		640-642'		7/18		1943	
129		645-647'		7/18		1948	
130		650-652'		7/18		1953	
131		655-657'		7/18		1958	
132		660-662'		7/18		1963	
133		665-667'		7/18		1968	
134		670-672'		7/18		1973	
135		675-677'		7/18		1978	
136		680-682'		7/18		1983	
137		685-687'		7/18		1988	
138		690-692'		7/18		1993	
139		695-697'		7/18		1998	
140		700-702'		7/18		2003	
141		705-707'		7/18		2008	
142		710-712'		7/18		2013	
143		715-717'		7/18		2018	
144		720-722'		7/18		2023	
145		725-727'		7/18		2028	
146		730-732'		7/18		2033	
147		735-737'		7/18		2038	
148		740-742'		7/18		2043	
149		745-747'		7/18		2048	
150		750-752'		7/18		2053	
151		755-757'		7/18		2058	
152		760-762'		7/18		2063	
153		765-767'		7/18		2068	
154		770-772'		7/18		2073	
155		775-777'		7/18		2078	
156		780-782'		7/18		2083	
157		785-787'		7/18		2088	
158		790-792'		7/18		2093	
159		795-797'		7/18		2098	
160		800-802'		7/18		2103	
161		805-807'		7/18		2108	
162		810-812'		7/18		2113	
163		815-817'		7/18		2118	
164		820-822'		7/18		2123	
165		825-827'		7/18		2128	
166		830-832'		7/18		2133	
167		835-837'		7/18		2138	
168		840-842'		7/18		2143	
169		845-847'		7/18		2148	
170		850-852'		7/18		2153	
171		855-857'		7/18		2158	
172		860-862'		7/18		2163	
173		865-867'		7/18		2168	
174		870-872'		7/18		2173	
175		875-877'		7/18		2178	
176		880-882'		7/18		2183	
177		885-887'		7/18		2188	
178		890-892'		7/18		2193	
179		895-897'		7/18		2198	
180		900-902'		7/18		2203	
181		905-907'		7/18		2208	
182		910-912'		7/18		2213	
183		915-917'		7/18		2218	
184		920-922'		7/18		2223	

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 2 of 2

BILL TO

ANALYSIS REQUEST

Company Name: Safety and Environmental Solutions
 Project Manager: Bob Allen

P.O. #:

Address: 703 East Clinton, PO Box 1613

Company: Same

City: Hobbs

State: NM Zip: 88240

Attn:

Phone #: 575 397-0510

Fax #: 575 393-4388

Address:

Project #: 575-19-0022

Project Owner:

City:

Project Name:

State:

Zip:

Project Location:

Phone #:

Sampler Name:

Fax #:

FOR LAB USE ONLY

MATRIX

PRESERV

SAMPLING

Lab I.D.

Sample I.D.

1102500

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

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ACID/BASE:

ICE / COOL

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