Oil Conservation Division

Incident ID	nAPP2214547419
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.

<u>Closure Report Attachment Checklist</u>: Each of the following it	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										
and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and ren human health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially inditions that existed prior to the release or their final land use in									
Printed Name: Chet Stuart	Title: Manager- Operations Support									
Signature: Chet Stuart	Date:1/31/23									
email:cstuart@contango.com	Telephone: 713-236-7530									
OCD Only										
Received by: Jocelyn Harimon	Date: 01/31/2023									
	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: Robert Hamlet	Date: <u>5/26/2023</u>									
Printed Name: <u>Robert Hamlet</u>										



Remediation Summary

Property:

Contango Resources Karlsbad Corral SWD 2 Eddy County, New Mexico Unit M, Section 11, Township 25 South, Range 39 East Latitude 32.138695, Longitude -103.310596

nAPP2214547419

January 2023

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Appendix A

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- Figure 3 First Sample Location Map
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Laboratory Analysis

Appendix E

Initial and Final C-141

Appendix F

Manifest

Appendix G

Groundwater

Remediation Summary

Contango Resources Karlsbad Corral SWD 2 Eddy County, New Mexico Unit M, Section 11, Township 25 South, Range 39 East Latitude 32.867695, Longitude -103.310596 nAPP2214547419

January 2023

1.0 INTRODUCTION

1.1 Site Description & Background

The Site is located in Unit M, Section 11, Township 25 South, Range 39 East, Eddy County, New Mexico (GPS 32.138658, -103.962938). Figures 1, 2, and 3 in Appendix A show the Site location.

Remedial action was conducted in accordance with the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), the New Mexico Oil Conservation Division (NMOCD), and rules under the New Mexico Administrative Code (*NMAC 19.15.29*).

1.2 **Project Objective**

The objective of the Remediation Summary is to present documentation of the activities that were performed at this Site to the NMOCD.

1.3 Reliance

The Remediation Summary has been prepared for the exclusive use of Contango Resources, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Contango Resources. Any unauthorized distribution or reuse is at the sole risk of Contango Resources. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal and the report.

2.0 REMEDIAL ACTION GOALS

In accordance with the NMAC 19.15.29, Contango Resources utilized the general site characteristics to determine the appropriate "ranking" for the Site.

- The depth to the initial groundwater-bearing zone is less than fifty feet at the Site. For details refer to Groundwater in Appendix G,
- The impacted area is more than 1,000 feet (ft) from a water source, and
- Distance to the nearest surface water body is greater than 1,000 ft.

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Cleanup goals for soils remaining in place include: 600 milligrams per kilogram (mg/Kg) for Chloride, 100 mg/Kg for Total Petroleum Hydrocarbons (TPH), 10 mg/Kg for Benzene, and 50 mg/Kg for Total Benzene, Toluene, Ethylbenzene, and Xylene (BTEX).

Figure 5 in Appendix A shows the location of the Site in Lea Co, New Mexico, and surrounding topography. Figure 6 in Appendix A shows the location of the Site and its proximity to the nearest water well which is a distance of one and eighteen-one hundredths (1.18) mile to the Southwest.

3.0 SURFACE ACTIVITIES

During May 2022, at the request of Contango Resources, a third-party contractor was instructed to excavate impacted material (i.e., soils) inside the lined containment and in the pasture area behind the battery due to a release of crude oil and produced water. Approximately two hundred forty-one (241) cubic yards (yd³) of impacted material were excavated and temporarily stockpiled inside the release footprint.

Beginning May 26th and continuing through June 7th, the temporarily stockpiled excavated impacted material was exported offsite by the third-party contractor under appropriate manifest and transported to Lea Land, LLC, located east of Carlsbad, New Mexico. Appendix F of this report contains the manifests for the material.

Following the initial sampling results the third-party contractor continued excavation activities and achieved a range of depth from one-half (0.5) foot to six (6) feet below ground surface (bgs) throughout the release footprint. Approximately one hundred eighty-two (182) cubic yards (yd³) of impacted material were excavated and temporarily stockpiled inside the release footprint.

Beginning July 26th and continuing through July 29th, the second temporarily stockpiled excavated impacted material was exported offsite by the third-party contractor under appropriate manifest and transported to Lea Land, LLC, located east of Carlsbad, New Mexico. Appendix F of this report contains the manifests for the material.

4.0 INITIAL RESPONSE & SAMPLING ACTIVITIES

4.1 Initial Response

On May 23rd, third-party personnel performed a site inspection in response to a release of one hundred sixty (160) barrels (bbls) of crude oil and produced water in the lined containment and eleven and four tenths (11.4) bbls of crude oil and produced water in the pasture. The total released volume was approximately one hundred seventy-one and four tenths (171.4) bbls of crude oil and produced water. The cause of the release was due to a leak, attributed to vandalism, where a valve was closed on the back of the gun barrel, which in-turn allowed the release to occur directly to the lined containment and adjacent ground. The third-party determined the release footprint to be approximately nine thousand one hundred thirty-three (9,133) square feet of pasture area.

On May 26th, third-party personnel began excavation activities of the impacted material inside the lined containment and in the pasture area adjacent to the containment. Approximately two hundred forty-one and eighty hundredths (241.08) yd³ of impacted

material were excavated and temporarily stockpiled on-site before being exported offsite by the third-party contractor under appropriate manifest and transported to Lea Land, LLC. Appendix F of this report contains the manifests for the impacted material.

4.2 First Soil Sampling Activities

Sampling activities were conducted on June 23rd by third-party personnel, using a stainless-steel hand auger. A grid area was designed covering the release footprint comprised of seventeen (17) individual 10' X 20' cells equaling 200 sq. ft. each. Seventeen (17) auger hole (i.e., AH 1 thru AH 17) samples were collected at various locations. Table 1 in Appendix B presents soil sampling analytical results. Figure 3 in Appendix A shows the approximate position of sample locations within the release footprint and in relation to pertinent land features during the sampling event.

1

4.3 Soil Sampling Analytical Results

The seventeen (17) samples collected within the release footprint were delivered by thirdparty personnel to Eurofins Xenco laboratory for analysis on June 24th. The samples were analyzed for Chloride, TPH, and BTEX. Analytical results were compared to *Table I of the NMAC 19.15.29.12* and show BTEX concentrations were below the NMOCD guidelines at all sample locations. TPH concentrations were below the NMOCD guidelines at sample locations AH 2, AH3, AH 5, AH 8, AH 10, AH 11, and AH 13 through AH 17. Chloride concentrations were below the NMOCD guidelines at sample 17.

Based upon the data collected during the sampling event and review of the analytical results, the constituents of concern (COCs) were not vertically or horizontally delineated at all sample locations. TPH concentrations at sample locations AH 1, AH 4, AH 6, AH 7, AH 9, and AH 12 exceed NMOCD clean-up goals. Chloride concentrations at sample locations AH 1 through AH 3 exceed NMOCD clean-up goals. Both vertical and horizontal delineation had not been achieved. Further excavation and sampling were required.

4.5 Additional Excavation Activities

Remediation activities continued July 26th by the third-party contractor excavating additional material throughout the release footprint to address elevated levels of both TPH and Chloride as shown in the previous sampling event. Approximately one hundred eighty-one and eighty-three hundredths (181.83) yd³ of impacted material were excavated and temporarily stockpiled on-site before being exported offsite by the third-party contractor under appropriate manifest and transported to Lea Land, LLC. Appendix F of this report contains the manifests for the impacted material.

4.5 Second Soil Sampling Activities

Confirmation sampling activities were conducted on October 13th by third-party personnel, using a stainless-steel hand auger. The same grid area previously used was designed covering the release footprint comprised of nine (9) individual 10' X 20' cells equaling 200 sq. ft. each. Nine (9) bottom hole (i.e., H1 S2 thru H12 S2) and six (6) side wall (i.e., SW8

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Page 4

S2 thru SW15 S2) samples were collected at various locations. Bottom hole samples were collected from a depth ranging from one-half (0.5) foot bgs to six (6) feet bgs, where an excavation bottom (EB) was established. Table 2 in Appendix B presents soil sampling analytical results. Figure 4 in Appendix A shows the approximate position of sample locations within the release footprint and in relation to pertinent land features during the sampling event.

4.6 Soil Sampling Analytical Results

The fifteen (15) samples collected within the release footprint were delivered by third-party personnel to Eurofins Xenco laboratory for analysis on October 13th. The samples were analyzed for Chloride, TPH, and BTEX. Analytical results were compared to *Table I of the NMAC 19.15.29.12* and show Chloride, TPH and BTEX concentrations are below the NMOCD guidelines for Chloride, TPH and BTEX cleanup goals at all sample locations.

5.0 LABORATORY ANALYTICAL METHODS

All samples were analyzed for Chloride utilizing EPA method 300, TPH utilizing EPA method SW8015 Mod, BTEX using EPA method EPA 8021B. Laboratory analysis is provided in Appendix D.

Soil was collected in laboratory prepared glassware, placed on ice, and packed in a cooler. The sample coolers and completed chain-of-custody forms were relinquished to Eurofins Xenco Laboratories in Midland, TX for a normal turn-around time.

6.0 CONCLUSION

Based upon the data collected and the Site work completed by the third-party contractor, the constituents of concern (COCs) have been vertically or horizontally delineated at all sample locations.

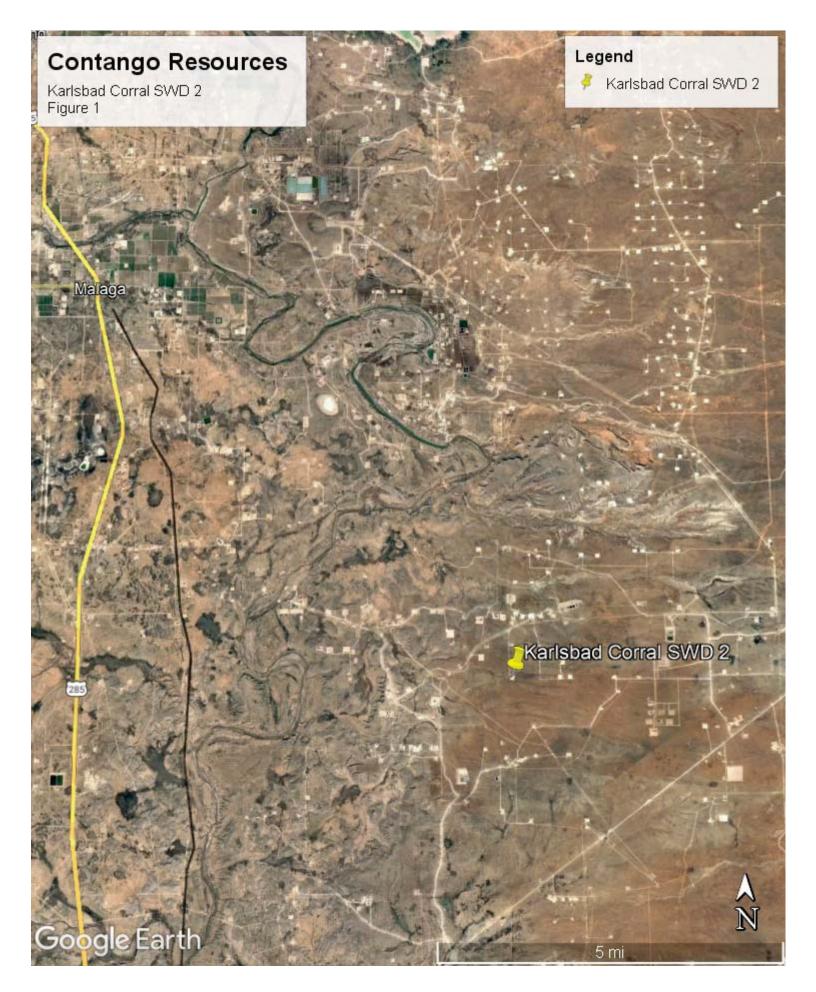
Following the receipt of the passing analytical results, the lined containment was then backfilled with gravel. The containment berms and adjacent pasture area was contoured to original conditions using sand and materials similar to what was removed.

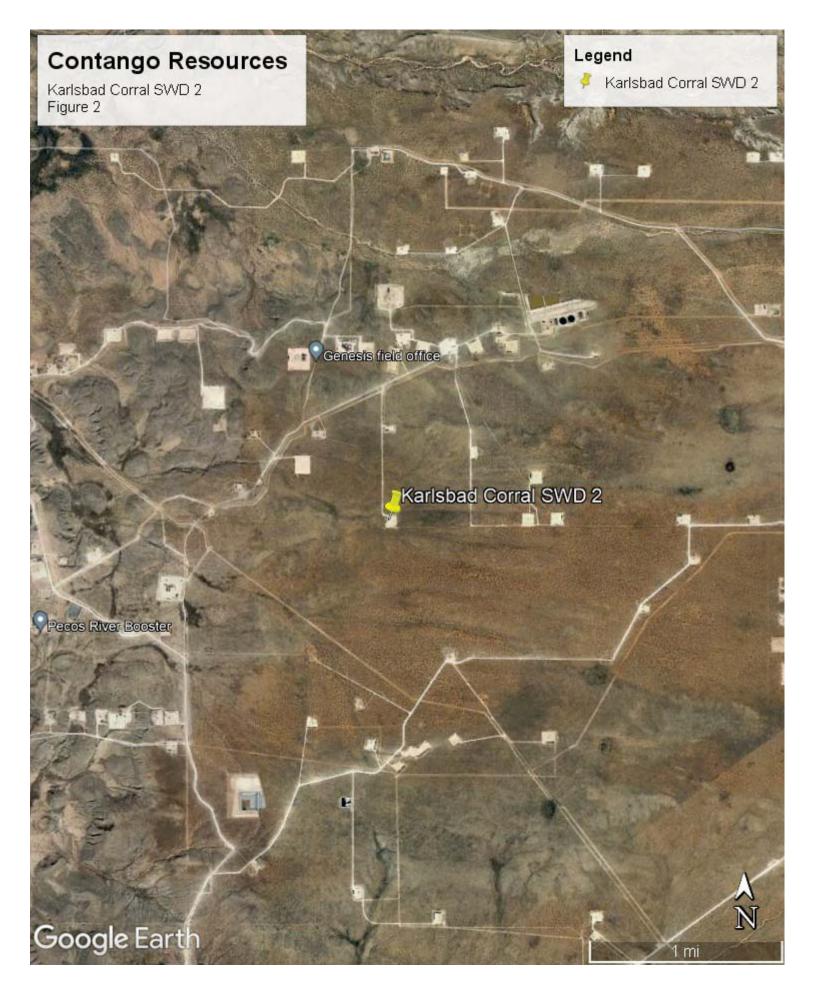
Those response actions which are affirmed by laboratory analytical results do not need further remediation and the facility can be returned to operation.

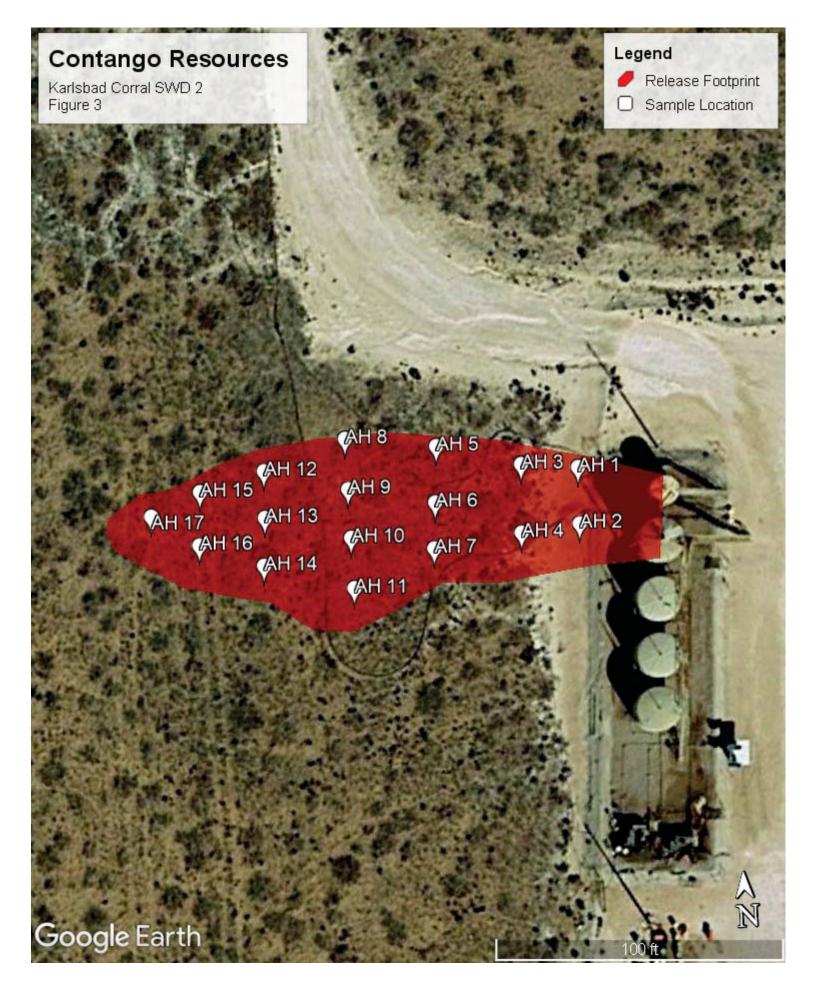
Copies of the Initial and Final C-141 are provided in Appendix E.

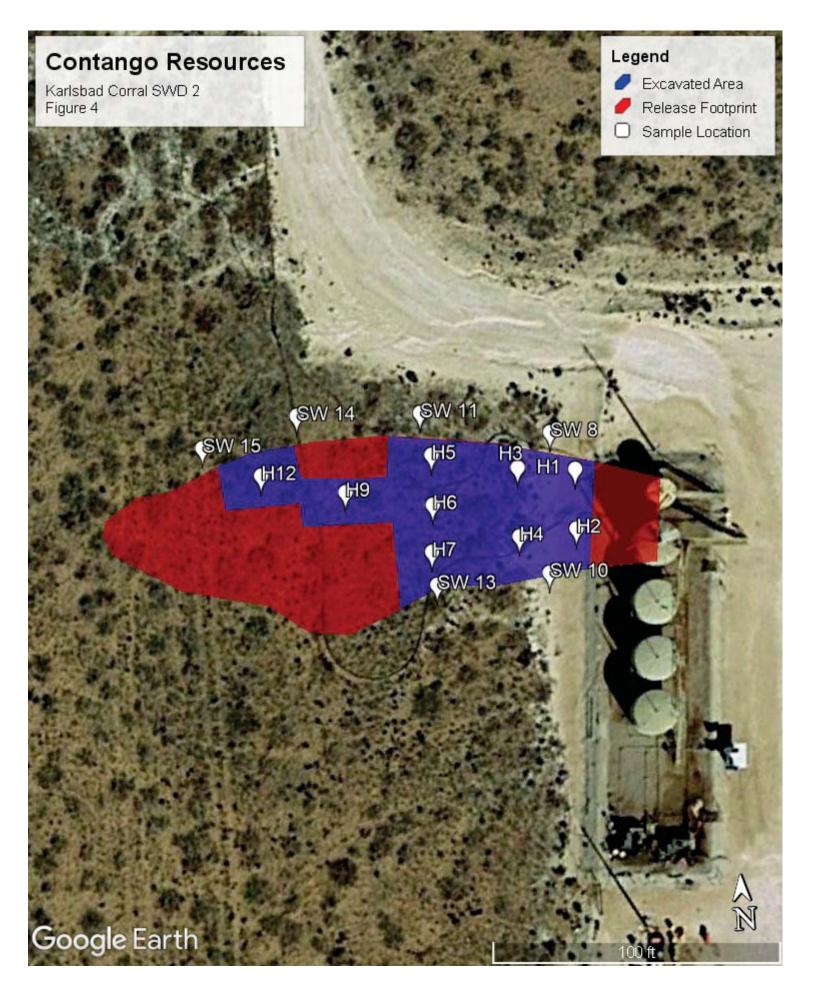
APPENDIX A

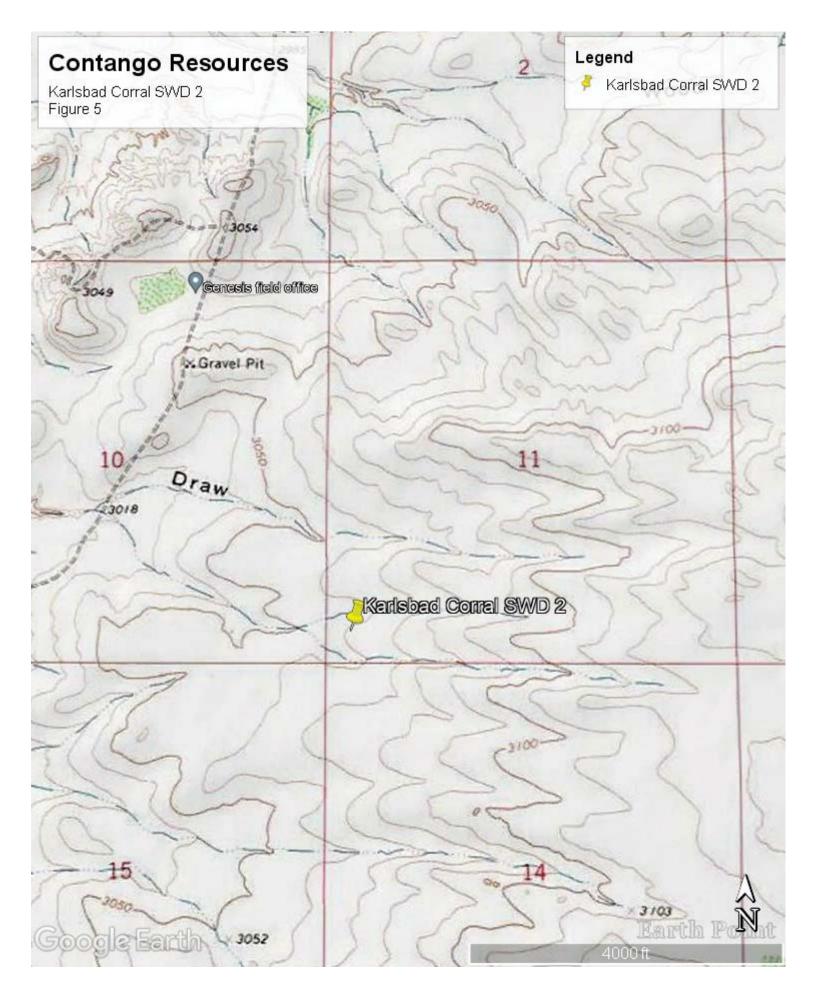
Figures

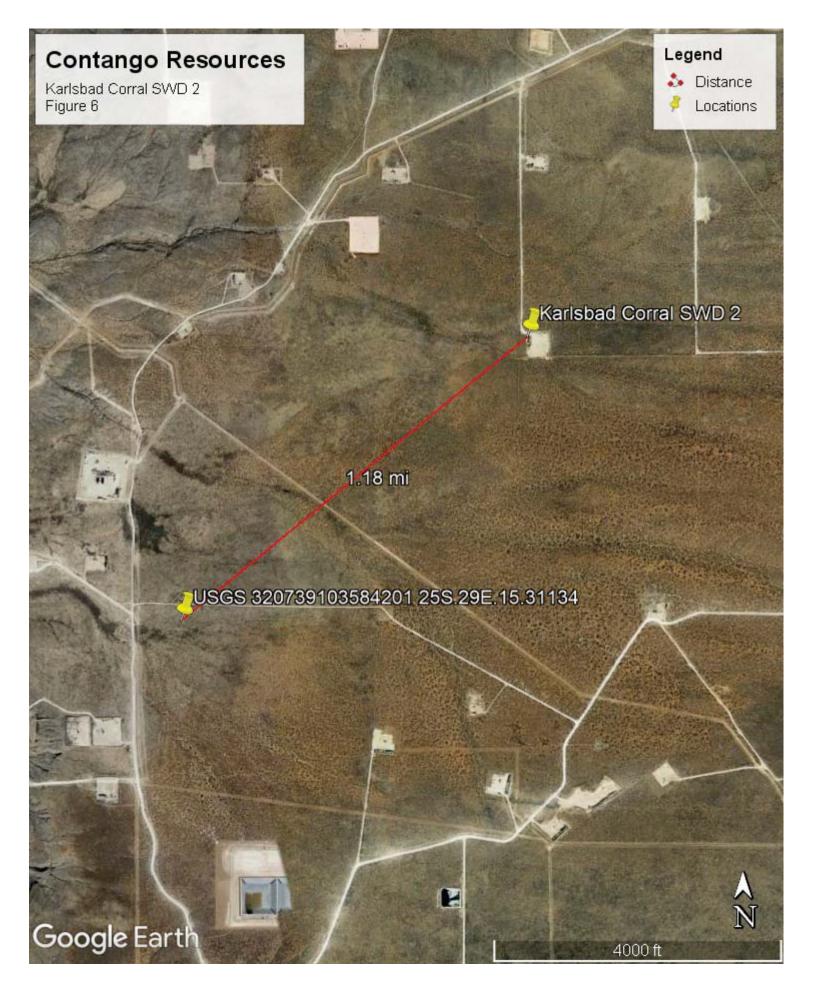












APPENDIX B

Table 1 Table 2

.

TABLE 1 Summary of Soil Sampling Analytical Results Concentrations in Soil Contango Oil & Gas Company Karlsbad Corral SWD 2 Eddy County, New Mexico													
Sample	Sample	Sample Depth	Soil	EPA 300 Chloride	Gasoline Range	801 Diesel Range	5M Oil Range	Total	Benzene	Toluene	8021B Ethylbenzene	Total	Tota
Location	Date	(feet)	Status	(mg/Kg)	Organics (GRO) (mg/Kg)	Organics (DRO) (mg/Kg)	Organics (MRO) (mg/Kg)	TPH (mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	Xylenes (mg/Kg)	BTE (mg/ł
Ν	IMAC 19.15.29)		600	NE	NE	NE	100	10		NE		50
		•			1	Confirmatio	on Samplin	g	1	1			1
Augar Hole 1	6/23/2022	0-0.5'	Excavated	4,280	1,290	6,250	880	8,420	<0.00201	0.0613	0.266	0.858	1.19
Augar Hole 1	6/23/2022	0.5'-1'	Excavated	2,610	-		-	-		-	-	-	-
Augar Hole 1 Augar Hole 1	6/23/2022 6/23/2022	1'-1.5' 1.5'-2'	Excavated Excavated	4,680 2,220	_	_	_	_	_	_	_	_	-
Augar Hole 1 Augar Hole 1	6/23/2022	2'-2.5'	Excavated	1,770	_	_	_	_	_	_	_	_	-
Augar Hole 1	6/23/2022	2.5'-3'	Excavated	3,030	-	-	-	-	-	-	_	_	-
Augar Hole 1	6/23/2022	3'-3.5'	Excavated	3,260	-	-	-	-	-	-	-	-	-
Augar Hole 1	6/23/2022	3.5'-4'	Excavated	1,910	-	-	-	-	-	-	_	-	-
Augar Hole 1	6/23/2022	4'-4.5'	Excavated	1,950	-	-	-	-	-	-		-	<u> </u>
Augar Hole 2	6/23/2022	0-0.5'	Excavated	6,220	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	< 0.00199	<0.00398	<0.00
Augar Hole 2	6/23/2022	0.5'-1'	Excavated	3,930	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	< 0.00
Augar Hole 2	6/23/2022	1'-1.5'	Excavated	4,260	-	-	-	-	-	-	_	_	-
Augar Hole 2	6/23/2022	1.5'-2'	Excavated	3,230	-	-	-	_	-	-	-	_	-
Augar Hole 2 Augar Hole 2	6/23/2022 6/23/2022	2'-2.5' 2.5'-3'	Excavated Excavated	2,100 1,950	_	_	_	_	_	_	-	_	-
Augar Hole 2	6/23/2022	2.5-5 3'-3.5'	Excavated	2,490	_	_	_	_	_	_			-
Augar Hole 2	6/23/2022	3.5'-4'	Excavated	2,000	-	-	-	-	-	-	_	_	-
Augar Hole 2	6/23/2022	4'-4.5'	Excavated	2,700	-	-	-	-	-	-	-	-	-
Augar Hole 3	6/23/2022	0-0.5'	Excavated	697	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	< 0.00
Augar Hole 3	6/23/2022	1'-1.5'	Excavated	704	-	-	-	-	-	-	-	-	-
Augar Hole 4	6/23/2022	0-0.5'	Excavated	151	641	3,400	496	4,540	<0.00200	0.0385	0.247	0.515	0.80
Augar Hole 4	6/23/2022	1'-1.5'	In-Situ	237	-	-	-	-	-	-	-	-	-
Augar Hole 5	6/23/2022	0-0.5'	Excavated	16.5	<50.0	56.1	<50.0	56.1	<0.00199	0.00224	<0.00199	<0.00398	< 0.003
Augar Hole 5	6/23/2022	1'-1.5'	In-Situ	25.1	-	-	-	-	-	-	-	_	-
Augar Hole 6	6/23/2022	0-0.5'	Excavated	25.2	<49.9	255	<49.9	255	<0.00199	<0.00199	<0.00199	<0.00398	< 0.00
Augar Hole 6	6/23/2022	1'-1.5'	In-Situ	37.5	-	-	-	-	-	-	-	-	-
Augar Hole 7	6/23/2022	0-0.5'	Excavated	25.1	<49.9	1,160	145	1,310	<0.00200	<0.00200	<0.00200	0.00211	< 0.00
Augar Hole 7	6/23/2022	1'-1.5'	In-Situ	25.5	-	-	-	-	-	-	-	-	-
Augar Hole 8	6/23/2022	0-0.5'	In-Situ	12.1	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	< 0.00
Augar Hole 8	6/23/2022	1'-1.5'	In-Situ	19.4	-	-	-	-	-	-	_	_	- 1
Augar Hole 9	6/23/2022	0-0.5'	Excavated	58.6	<50.0	214	<50.0	214	<0.00200	<0.00200	<0.00200	<0.00401	< 0.004
Augar Hole 9	6/23/2022	1'-1.5'	In-Situ	55.6	-	-	-	-	-	-	-	-	-
Augar Hole 10	6/23/2022	0-0.5'	In-Situ	<4.98	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	< 0.00401	< 0.004
Augar Hole 10	6/23/2022	1'-1.5'	In-Situ	6.76	-	-	-	-	-	-	-	-	-
Augar Hole 11	6/23/2022	0-0.5'	In-Situ	22.6	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	< 0.003
Augar Hole 11	6/23/2022	1'-1.5'	In-Situ	13.8	-	-	-	-	-	-	-	-	-
Augar Hole 12	6/23/2022	0-0.5'	Excavated	45.5	<250	3,460	528	3,990	<0.00199	<0.00199	<0.00199	<0.00398	< 0.00
Augar Hole 12	6/23/2022	1'-1.5'	In-Situ	35.5	-	-	-	-	-	-	_	-	
Augar Hole 13	6/23/2022	0-0.5'	In-Situ	7.22	<50.0	56.5	<50.0	56.5	<0.00200	<0.00200	<0.00200	<0.00401	< 0.004
Augar Hole 13	6/23/2022	1'-1.5'	In-Situ	7.66	_	-	_	-	_	_		_	<u> </u>
Augar Hole 14	6/23/2022	0-0.5'	In-Situ	16.4	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	< 0.00201	0.00435	0.004
Augar Hole 14	6/23/2022	1'-1.5'	In-Situ	16.3	-	-	-	-	-	-	-	-	-
Augar Hole 15	6/23/2022	0-0.5'	In-Situ	<4.96	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	< 0.00
	6/23/2022	0-0.5'	In-Situ	9.99	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.003
Augar Hole 16													

mg/Kg - milligrams per Kilogram

Concentrations in BOLD exceed remediation guidelines

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes analyzed by EPA method 8021B

NE - not established

— = not determined

In-situ - sample collected in-place

Total TPH reported values are rounded-off to 3-significant figures using the LIMS Odd/Even Rounding Rule which is a laboratory accepted standard

TABLE 2 Summary of Soil Sampling Analytical Results Concentrations in Soil Contango Oil & Gas Company Karlsbad Corral SWD 2 Eddy County, New Mexico 8021B													
Sample Location	Sample Date	Sample Depth (feet)	Soil Status	Chloride (mg/Kg)	Gasoline Range Organics (GRO) (mg/Kg)	Diesel Range Organics (DRO) (mg/Kg)	Oil Range Organics (MRO) (mg/Kg)	Total TPH (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)
r	NMAC 19.15.29			600	NE	NE	NE	100	10		NE		50
				<u> </u>		Confirmat	ion Sampli	ng	<u> </u>				
H1 S2 6'0	10/13/2022	0-0.5'	In-Situ	5.48	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
H2 S2 6'0	10/13/2022	0-0.5'	In-Situ	6.08	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399
H3 S2 1'6	10/13/2022	0-0.5'	In-Situ	<5.00	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
H4 S2 1'0	10/13/2022	0-0.5'	In-Situ	<5.03	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401
H5 S2 0'6	10/13/2022	0-0.5'	In-Situ	<5.01	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403
H6 S2 0'6	10/13/2022	0-0.5'	In-Situ	<5.05	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396
H7 S2 1'0	10/13/2022	0-0.5'	In-Situ	40.5	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397
H9 S2 1'0	10/13/2022	0-0.5'	In-Situ	<4.96	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
H12 S2 1'0	10/13/2022	0-0.5'	In-Situ	14.1	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
SW8 S2	10/13/2022		In-Situ	16	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399
SW10 S2	10/13/2022		In-Situ	33.2	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
SW11 S2	10/13/2022		In-Situ	<5.04	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401
SW13 S2	10/13/2022		In-Situ	19.3	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401
SW14 S2	10/13/2022		In-Situ	6.80	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401
SW15 S2	10/13/2022		In-Situ	16.7	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402

mg/Kg - milligrams per Kilogram

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes analyzed by EPA method 8021B

NE - not established

- = not determined

Released to Imaging: 5/26/2023 9:44:42 AM

In-situ - sample collected in-place

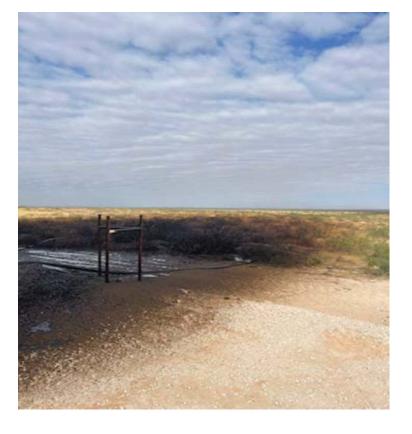
Total TPH reported values are rounded-off to 3-significant figures using the LIMS Odd/Even Rounding Rule which is a laboratory accepted standard

APPENDIX C

Photo Page



View South – Origin of spill. Cause of the release is due to a closed valve on the back of the gun barrel (vandalism) causing tanks to overflow.



View West – A portion of the spill flow path (dark brown staining) within the release footprint.

Received by OCD: 1/31/2023 9:04:48 AM



View East – A portion of the spill flow path (dark standing fluid) within the release footprint.





View South – Remediation activities (pressure washing and excavation) completed inside secondary containment.



View North – Remediation activities (pressure washing and excavation) completed inside secondary containment.





View North – Remediation activities (dig and haul) ongoing outside of secondary containment.



View North – Remediation activities (backfill) completed inside secondary containment.

Contango

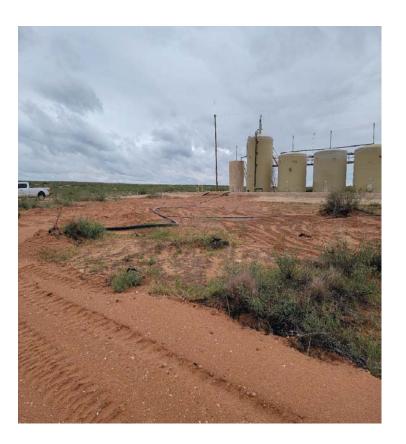


View South – Remediation activities (backfill) completed outside of secondary containment.



View East – Remediation activities (backfill) completed.

Contango



View East – Remediation activities (backfill) completed.

APPENDIX D

Laboratory Analysis

Received by OCD: 1/31/2023 9:04:48 AM

LINKS

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EOL

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Environment Testing America

ANALYTICAL REPORT

Eurofins Midland 1211 W. Florida Ave Midland, TX 79701 Tel: (432)704-5440

Laboratory Job ID: 880-16308-1

Laboratory Sample Delivery Group: Eddy Co NM Client Project/Site: Contango-Karlsbad Corral SWD 2

For:

American Safety Services Inc. 8715 Andrews Hwy Odessa, Texas 79765

Attn: Thomas Franklin

VRAMER

Authorized for release by: 7/5/2022 3:18:45 PM

Jessica Kramer, Project Manager (432)704-5440 Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

SDG: Eddy Co NM

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Client: American Safety Services Inc. Project/Site: Contango-Karlsbad Corral SWD 2

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ssar y	
Job ID: 880-16308-1	
SDG: Eddy Co NM	2

Qualifiers

Qualifiers		3
GC VOA Qualifier	Qualifier Description	4
F1	MS and/or MSD recovery exceeds control limits.	
F2	MS/MSD RPD exceeds control limits	5
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	6
GC Semi VOA		
Qualifier	Qualifier Description	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	8
HPLC/IC		
Qualifier	Qualifier Description	9
F1	MS and/or MSD recovery exceeds control limits.	
U	Indicates the analyte was analyzed for but not detected.	
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	12
CFL	Contains Free Liquid	4.2
CFU	Colony Forming Unit	13
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL

ML Minimum Level (Dioxin) MPN Most Probable Number

MQL Method Quantitation Limit

NC Not Calculated ND

Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive

- QC Quality Control
- RER Relative Error Ratio (Radiochemistry)
- RL Reporting Limit or Requested Limit (Radiochemistry)
- RPD Relative Percent Difference, a measure of the relative difference between two points
- TEF Toxicity Equivalent Factor (Dioxin)
- TEQ Toxicity Equivalent Quotient (Dioxin)
- TNTC Too Numerous To Count

Case Narrative

Client: American Safety Services Inc. Project/Site: Contango-Karlsbad Corral SWD 2

Job ID: 880-16308-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-16308-1

Receipt

The samples were received on 6/24/2022 4:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.5°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 880-28494 and analytical batch 880-28710 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (880-16308-A-1-E MS) and (880-16308-A-1-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: Augar Hole 1 (880-16308-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: Augar Hole 4 (880-16308-21). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: Augar Hole 10 (880-16308-33). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-28446 and 880-28446 and analytical batch 880-28860 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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RL

MDL Unit

D

Prepared

Job ID: 880-16308-1 SDG: Eddy Co NM

Client Sample ID: Augar Hole 1 Date Collected: 06/23/22 10:00

Project/Site: Contango-Karlsbad Corral SWD 2

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

Sample Depth: 0.0'-0.5

Analyte

Lab	Sample	ID:	880-163	08-1

Analyzed

Matrix: Solid

Dil Fac

4
5
6
8
9
13

Date Received: 06/24/22 16:40

Benzene									
	<0.00201	U F1 F2	0.00201		mg/Kg		06/27/22 16:24	07/01/22 00:09	1
Toluene	0.0613	F1	0.00201		mg/Kg		06/27/22 16:24	07/01/22 00:09	1
Ethylbenzene	0.266	F1 F2	0.00201		mg/Kg		06/27/22 16:24	07/01/22 00:09	1
m-Xylene & p-Xylene	0.529	F1 F2	0.00402		mg/Kg		06/27/22 16:24	07/01/22 00:09	1
o-Xylene	0.329	F1 F2	0.00201		mg/Kg		06/27/22 16:24	07/01/22 00:09	1
Xylenes, Total		F1 F2	0.00402		mg/Kg		06/27/22 16:24	07/01/22 00:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130				06/27/22 16:24	07/01/22 00:09	1
1,4-Difluorobenzene (Surr)	78		70 - 130				06/27/22 16:24	07/01/22 00:09	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	1.19		0.00402		mg/Kg			07/01/22 10:56	1
Method: 8015 NM - Diesel Range (Organics (DR	0) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	8420		249		mg/Kg			06/28/22 10:27	1
Method: 8015B NM - Diesel Range	Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	1290		249		mg/Kg		06/27/22 09:45	06/28/22 03:42	5
(GRO)-C6-C10									
Diesel Range Organics (Over C10-C28)	6250		249		mg/Kg		06/27/22 09:45	06/28/22 03:42	5
Oll Range Organics (Over C28-C36)	880		249		mg/Kg		06/27/22 09:45	06/28/22 03:42	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				06/27/22 09:45	06/28/22 03:42	5
o-Terphenyl	101		70 - 130				06/27/22 09:45	06/28/22 03:42	5
Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4280		24.9		mg/Kg			07/02/22 06:28	5
lient Sample ID: Augar Hole	1						Lab Sam	ple ID: 880-1	6308-2
ate Collected: 06/23/22 10:05								Matri	ix: Solid
ate Received: 06/24/22 16:40									
ample Depth: 0.5'-1.0									
	natography -	Soluble							
ample Depth: 0.5'-1.0 Method: 300.0 - Anions, Ion Chron Analyte	• • •	Soluble Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

		Client	Sample R	esults	•				
Client: American Safety Services Inc. Project/Site: Contango-Karlsbad Corral S	SWD 2							Job ID: 880- SDG: Eddy	
Client Sample ID: Augar Hole 1 Date Collected: 06/23/22 10:10 Date Received: 06/24/22 16:40 Sample Depth: 1.0'-1.5							Lab San	nple ID: 880-1 Matri	6308-3 ix: Solid
Method: 300.0 - Anions, Ion Chromate Analyte		Soluble Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4680		24.8		mg/Kg		•	07/02/22 07:00	5
Client Sample ID: Augar Hole 1 Date Collected: 06/23/22 10:15 Date Received: 06/24/22 16:40 Sample Depth: 1.5'-2.0							Lab San	nple ID: 880-1 Matri	6308-4 ix: Solid
Method: 300.0 - Anions, Ion Chromate	ography -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Chloride	2220		25.2		mg/Kg			07/02/22 07:08	5
Client Sample ID: Augar Hole 1 Date Collected: 06/23/22 10:20 Date Received: 06/24/22 16:40 Sample Depth: 2.0'-2.5							Lab San	nple ID: 880-1 Matri	6308-5 ix: Solid
Method: 300.0 - Anions, Ion Chromate			ы	MDI	11	D	Dranavad	Anglunged	
Analyte Chloride	1770	Qualifier	RL 25.1	MDL	Unit mg/Kg		Prepared	Analyzed 07/02/22 07:16	Dil Fac
Client Sample ID: Augar Hole 1 Date Collected: 06/23/22 10:25 Date Received: 06/24/22 16:40 Sample Depth: 2.5'-3.0							Lab San	nple ID: 880-1 Matr	6308-6 ix: Solid
Method: 300.0 - Anions, Ion Chromato	ography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Chloride	3030		24.9		mg/Kg			07/02/22 07:23	5
Client Sample ID: Augar Hole 1 Date Collected: 06/23/22 10:30 Date Received: 06/24/22 16:40 Sample Depth: 3.0'-3.5							Lab San	nple ID: 880-1 Matri	6308-7 ix: Solid
Method: 300.0 - Anions, Ion Chromato	ography -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3260		25.0		mg/Kg			07/02/22 07:31	5
Client Sample ID: Augar Hole 1 Date Collected: 06/23/22 10:35 Date Received: 06/24/22 16:40 Sample Depth: 3.5'-4.0							Lab San	nple ID: 880-1 Matri	6308-8 ix: Solid
Method: 300.0 - Anions, Ion Chromato	ography -	Soluble							
Analyte	• • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1910		25.2		mg/Kg			07/02/22 07:39	5

Eurofins Midland

		Clien	t Sample R	lesults	\$				
Client: American Safety Services								Job ID: 880-	16308-1
Project/Site: Contango-Karlsbad	Corral SWD 2							SDG: Eddy	/ Co NN
Client Sample ID: Augar H	ole 1						Lab Sam	ple ID: 880-1	6308-9
Date Collected: 06/23/22 10:40									x: Solic
Date Received: 06/24/22 16:40									
Sample Depth: 4.0'-4.5									
-									
Method: 300.0 - Anions, Ion Cl Analyte		Soluble Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	Kesuit 1950		25.1	MDL	mg/Kg		Frepareu	07/02/22 15:26	
_					0 0				
Client Sample ID: Augar H	ole 2						Lab Samp	le ID: 880-16	308-10
Date Collected: 06/23/22 10:45								Matri	ix: Solid
Date Received: 06/24/22 16:40									
Sample Depth: 0.0'-0.5									
- Method: 8021B - Volatile Orga	nic Compounds (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199		mg/Kg		06/27/22 16:24	07/01/22 00:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/27/22 16:24	07/01/22 00:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/27/22 16:24	07/01/22 00:29	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/27/22 16:24	07/01/22 00:29	
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/27/22 16:24	07/01/22 00:29	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/27/22 16:24	07/01/22 00:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	/ <i>inceevery</i>	Quanner	70 - 130				06/27/22 16:24	07/01/22 00:29	
1,4-Difluorobenzene (Surr)	.00		70 - 130				06/27/22 16:24	07/01/22 00:29	
Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/01/22 10:56	1
_ Method: 8015 NM - Diesel Ran	ge Organics (DR	O) (GC)							
Analyte	• • ·	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/28/22 10:27	1
_									
Method: 8015B NM - Diesel Ra	• • •								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/27/22 09:45	06/27/22 22:44	1
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		06/27/22 09:45	06/27/22 22:44	
Dieser Kange Organics (Over									
C10-C28)									
5 5 X	<49.9	U	49.9		mg/Kg		06/27/22 09:45	06/27/22 22:44	1
C10-C28)	<49.9 %Recovery		49.9 <i>Limits</i>		mg/Kg		06/27/22 09:45 Prepared	06/27/22 22:44 Analyzed	
C10-C28) Oll Range Organics (Over C28-C36)					mg/Kg				Dil Fa
C10-C28) Oll Range Organics (Over C28-C36) Surrogate	%Recovery		Limits		mg/Kg		Prepared	Analyzed	Dil Fac
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 103 107	Qualifier	Limits		mg/Kg		Prepared 06/27/22 09:45	Analyzed	Dil Fa
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	// <i>Recovery</i> 103 107 hromatography -	Qualifier	Limits		mg/Kg Unit	D	Prepared 06/27/22 09:45	Analyzed	Dil Fac

Eurofins Midland

.

Job ID: 880-16308-1 SDG: Eddy Co NM

Client Sample ID: Augar Hole 2

Project/Site: Contango-Karlsbad Corral SWD 2

Lab Sample ID: 880-16308-11

Matrix: Solid

1 0	
Date Collected: 06/23/22 10:50	
Date Received: 06/24/22 16:40	
Sample Depth: 0.5'-1.0	

Method: 8021B - Volatile Organic	-	Qualifier	RL	MDL	Unit	D	Prepared	Applyzod	Dil Fac
Analyte Benzene	- Result <0.00199	Qualifier		WIDL	Unit		06/27/22 16:24	Analyzed 07/01/22 00:49	Dil Fac
		U			mg/Kg				1
Toluene			0.00199		mg/Kg		06/27/22 16:24	07/01/22 00:49	•
Ethylbenzene		U	0.00199		mg/Kg		06/27/22 16:24	07/01/22 00:49	1
m-Xylene & p-Xylene	< 0.00398		0.00398		mg/Kg		06/27/22 16:24	07/01/22 00:49	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		06/27/22 16:24	07/01/22 00:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/27/22 16:24	07/01/22 00:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				06/27/22 16:24	07/01/22 00:49	1
1,4-Difluorobenzene (Surr)	102		70 - 130				06/27/22 16:24	07/01/22 00:49	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/01/22 10:56	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/28/22 10:27	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/27/22 09:45	06/27/22 23:49	1
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		06/27/22 09:45	06/27/22 23:49	1
C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/27/22 09:45	06/27/22 23:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				06/27/22 09:45	06/27/22 23:49	1
o-Terphenyl	116		70 - 130				06/27/22 09:45	06/27/22 23:49	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3930		24.8		mg/Kg			07/02/22 15:58	5
lient Sample ID: Augar Hole	e 2						Lab Samp	le ID: 880-16	308-12
ate Collected: 06/23/22 10:55									x: Solid
ate Received: 06/24/22 16:40									
ample Depth: 1.0'-1.5									
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte							ricpuicu	Analyzou	

		Client	Sample R	esults	;				
Client: American Safety Services Inc. Project/Site: Contango-Karlsbad Corral S	WD 2		-					Job ID: 880- SDG: Eddy	
Client Sample ID: Augar Hole 2 Date Collected: 06/23/22 11:00 Date Received: 06/24/22 16:40 Sample Depth: 1.5'-2.0							Lab Sam	ple ID: 880-16 Matri	308-13 ix: Solid
Method: 300.0 - Anions, Ion Chromato	· · ·	Soluble Qualifier	RL	MDL	Unit	D	Bronorod	Applyrod	Dil Fac
Analyte	3230	Quaimer	24.9		Unit mg/Kg		Prepared	Analyzed 07/02/22 16:13	5
Client Sample ID: Augar Hole 2 Date Collected: 06/23/22 11:05 Date Received: 06/24/22 16:40 Sample Depth: 2.0'-2.5							Lab Sam	ple ID: 880-16 Matr	308-14 ix: Solid
Method: 300.0 - Anions, Ion Chromato	ography -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2100		24.9		mg/Kg			07/02/22 16:37	5
Client Sample ID: Augar Hole 2 Date Collected: 06/23/22 11:10 Date Received: 06/24/22 16:40 Sample Depth: 2.5'-3.0							Lab Sam	ple ID: 880-16 Matr	308-15 ix: Solid
Method: 300.0 - Anions, Ion Chromato	ography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1950		24.8		mg/Kg			07/02/22 16:45	5
Client Sample ID: Augar Hole 2 Date Collected: 06/23/22 11:15 Date Received: 06/24/22 16:40 Sample Depth: 3.0'-3.5							Lab Sam	ple ID: 880-16 Matri	308-16 ix: Solid
Method: 300.0 - Anions, Ion Chromato	graphy -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Chloride	2490		25.2		mg/Kg			07/02/22 16:53	5
Client Sample ID: Augar Hole 2 Date Collected: 06/23/22 11:20 Date Received: 06/24/22 16:40 Sample Depth: 3.5'-4.0							Lab Sam	ple ID: 880-16 Matri	308-17 ix: Solid
Method: 300.0 - Anions, Ion Chromato	graphy -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2000		25.0		mg/Kg			07/02/22 17:00	5
Client Sample ID: Augar Hole 2							Lab Sam	ple ID: 880-16	308-18
Date Collected: 06/23/22 11:25 Date Received: 06/24/22 16:40 Sample Depth: 4.0'-4.5								Matr	ix: Solid
Method: 300.0 - Anions, Ion Chromato	graphy -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Chloride	2700		24.8		mg/Kg			07/02/22 17:08	5

Eurofins Midland

.

Job ID: 880-16308-1 SDG: Eddy Co NM

Client Sample ID: Augar Hole 3 Date Collected: 06/23/22 11:30

Project/Site: Contango-Karlsbad Corral SWD 2

Date Received: 06/24/22 16:40 Sample Depth: 0.0'-0.5

Lab Sample ID: 880-163	308-19

Matrix: Solid

	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		06/27/22 16:24	07/01/22 01:10	
Toluene	<0.00200	U	0.00200		mg/Kg		06/27/22 16:24	07/01/22 01:10	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/27/22 16:24	07/01/22 01:10	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/27/22 16:24	07/01/22 01:10	
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/27/22 16:24	07/01/22 01:10	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/27/22 16:24	07/01/22 01:10	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	116		70 - 130				06/27/22 16:24	07/01/22 01:10	
1,4-Difluorobenzene (Surr)	103		70 - 130				06/27/22 16:24	07/01/22 01:10	
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	< 0.00399	U	0.00399		mg/Kg			07/01/22 10:56	
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9		mg/Kg			06/28/22 10:27	
Method: 8015B NM - Diesel Rang	ge Organics (DI	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9		RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 06/27/22 09:45	Analyzed 06/28/22 00:10	
Gasoline Range Organics		U		MDL		<u>D</u>	·		
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.9	U	49.9	MDL	mg/Kg	<u>D</u>	06/27/22 09:45	06/28/22 00:10	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	MDL	mg/Kg mg/Kg	<u> </u>	06/27/22 09:45 06/27/22 09:45	06/28/22 00:10 06/28/22 00:10	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 <49.9 <49.9	U U U	49.9 49.9 49.9	MDL	mg/Kg mg/Kg	<u> </u>	06/27/22 09:45 06/27/22 09:45 06/27/22 09:45	06/28/22 00:10 06/28/22 00:10 06/28/22 00:10	Dil Fa
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.9 <49.9 <49.9 <49.9 %Recovery	U U U	49.9 49.9 49.9 Limits	MDL	mg/Kg mg/Kg	<u>D</u>	06/27/22 09:45 06/27/22 09:45 06/27/22 09:45 Prepared	06/28/22 00:10 06/28/22 00:10 06/28/22 00:10 06/28/22 00:10 Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 <49.9 <49.9 %Recovery 109 112	U U Qualifier	49.9 49.9 49.9 <u>Limits</u> 70 - 130	MDL	mg/Kg mg/Kg	<u>D</u>	06/27/22 09:45 06/27/22 09:45 06/27/22 09:45 Prepared 06/27/22 09:45	06/28/22 00:10 06/28/22 00:10 06/28/22 00:10 06/28/22 00:10 <u>Analyzed</u> 06/28/22 00:10	Dil Fa
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.9 <49.9 <49.9 <49.9 <i>%Recovery</i> 109 112 comatography -	U U Qualifier	49.9 49.9 49.9 <u>Limits</u> 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	06/27/22 09:45 06/27/22 09:45 06/27/22 09:45 Prepared 06/27/22 09:45	06/28/22 00:10 06/28/22 00:10 06/28/22 00:10 06/28/22 00:10 <u>Analyzed</u> 06/28/22 00:10	Dil Fa
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro	<49.9 <49.9 <49.9 <49.9 <i>%Recovery</i> 109 112 comatography -	U U Qualifier Soluble	49.9 49.9 49.9 <u>Limits</u> 70 - 130 70 - 130		mg/Kg mg/Kg mg/Kg		06/27/22 09:45 06/27/22 09:45 06/27/22 09:45 Prepared 06/27/22 09:45 06/27/22 09:45	06/28/22 00:10 06/28/22 00:10 06/28/22 00:10 06/28/22 00:10 06/28/22 00:10 06/28/22 00:10	Dil Fa
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro Analyte	<49.9 <49.9 <49.9 /// <i>Recovery</i> 109 112 // <i>Result</i> 697	U U Qualifier Soluble	49.9 49.9 49.9 <u>Limits</u> 70 - 130 70 - 130 RL		mg/Kg mg/Kg mg/Kg Unit		06/27/22 09:45 06/27/22 09:45 06/27/22 09:45 Prepared 06/27/22 09:45 06/27/22 09:45 Prepared	06/28/22 00:10 06/28/22 00:10 06/28/22 00:10 Analyzed 06/28/22 00:10 06/28/22 00:10 Analyzed	<i>Dil Fa</i> Dil Fa
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro Analyte Chloride Stient Sample ID: Augar Hol ate Collected: 06/23/22 11:35	<49.9 <49.9 <49.9 /// <i>Recovery</i> 109 112 // <i>Result</i> 697	U U Qualifier Soluble	49.9 49.9 49.9 <u>Limits</u> 70 - 130 70 - 130 RL		mg/Kg mg/Kg mg/Kg Unit		06/27/22 09:45 06/27/22 09:45 06/27/22 09:45 Prepared 06/27/22 09:45 06/27/22 09:45 Prepared	06/28/22 00:10 06/28/22 00:10 06/28/22 00:10 06/28/22 00:10 06/28/22 00:10 06/28/22 00:10 06/28/22 00:10 06/28/22 17:16 le ID: 880-16	Dil Fa Dil Fa 308-20
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro Analyte Chloride Client Sample ID: Augar Hol rate Collected: 06/23/22 11:35 rate Received: 06/24/22 16:40	<49.9 <49.9 <49.9 /// <i>Recovery</i> 109 112 // <i>Result</i> 697	U U Qualifier Soluble	49.9 49.9 49.9 <u>Limits</u> 70 - 130 70 - 130 RL		mg/Kg mg/Kg mg/Kg Unit		06/27/22 09:45 06/27/22 09:45 06/27/22 09:45 Prepared 06/27/22 09:45 06/27/22 09:45 Prepared	06/28/22 00:10 06/28/22 00:10 06/28/22 00:10 06/28/22 00:10 06/28/22 00:10 06/28/22 00:10 06/28/22 00:10 06/28/22 17:16 le ID: 880-16	Dil Fa Dil Fa 308-20
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro Analyte Chloride Stient Sample ID: Augar Hol ate Collected: 06/23/22 11:35	<49.9 <49.9 <49.9 /// <i>Recovery</i> 109 112 // <i>Result</i> 697	U U Qualifier Soluble	49.9 49.9 49.9 <u>Limits</u> 70 - 130 70 - 130 RL		mg/Kg mg/Kg mg/Kg Unit		06/27/22 09:45 06/27/22 09:45 06/27/22 09:45 Prepared 06/27/22 09:45 06/27/22 09:45 Prepared	06/28/22 00:10 06/28/22 00:10 06/28/22 00:10 06/28/22 00:10 06/28/22 00:10 06/28/22 00:10 06/28/22 00:10 06/28/22 17:16 le ID: 880-16	Dil Fa Dil Fa 308-20
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro Analyte Chloride Client Sample ID: Augar Hol rate Collected: 06/23/22 11:35 rate Received: 06/24/22 16:40	<49.9 <49.9 <49.9 <49.9 <709 109 112 comatography - Result 697 e 3	U U Qualifier Soluble Qualifier	49.9 49.9 49.9 <u>Limits</u> 70 - 130 70 - 130 RL		mg/Kg mg/Kg mg/Kg Unit		06/27/22 09:45 06/27/22 09:45 06/27/22 09:45 Prepared 06/27/22 09:45 06/27/22 09:45 Prepared	06/28/22 00:10 06/28/22 00:10 06/28/22 00:10 06/28/22 00:10 06/28/22 00:10 06/28/22 00:10 06/28/22 00:10 06/28/22 17:16 le ID: 880-16	Dil Fa

RL

0.00200

0.00200

0.00200

0.00401

0.00200

0.00401

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

06/27/22 16:24

06/27/22 16:24

06/27/22 16:24

06/27/22 16:24

06/27/22 16:24

06/27/22 16:24

Job ID: 880-16308-1 SDG: Eddy Co NM

Analyzed

07/01/22 01:30

07/01/22 01:30

07/01/22 01:30

07/01/22 01:30

07/01/22 01:30

07/01/22 01:30

Client Sample ID: Augar Hole 4 Date Collected: 06/23/22 11:40 Date Received: 06/24/22 16:40

Sample Depth: 0.0'-0.5

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

Project/Site: Contango-Karlsbad Corral SWD 2

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00200 U

0.0385

0.247

0.229

0.286

0.515

Lab Sample ID: 880-16308-21

Matrix: Solid

Dil Fac

1

1

1

1

1

1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	158	S1+	70 - 130				06/27/22 16:24	07/01/22 01:30	1
1,4-Difluorobenzene (Surr)	94		70 - 130				06/27/22 16:24	07/01/22 01:30	1
_ Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.801		0.00401		mg/Kg			07/01/22 10:56	1
	ge Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	4540		250		mg/Kg			06/28/22 10:27	1
 Method: 8015B NM - Diesel Ra	nge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	641		250		mg/Kg		06/27/22 09:45	06/28/22 04:03	5
Diesel Range Organics (Over C10-C28)	3400		250		mg/Kg		06/27/22 09:45	06/28/22 04:03	5
Oll Range Organics (Over C28-C36)	496		250		mg/Kg		06/27/22 09:45	06/28/22 04:03	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				06/27/22 09:45	06/28/22 04:03	5
o-Terphenyl	111		70 - 130				06/27/22 09:45	06/28/22 04:03	5
 Method: 300.0 - Anions, Ion Cł	nromatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	151		5.00		mg/Kg			07/02/22 17:48	1
Client Sample ID: Augar H	ole 4						Lab Samp	le ID: 880-16	308-22
Date Collected: 06/23/22 11:45								Matri	ix: Solid
Date Received: 06/24/22 16:40									
Sample Depth: 1.0'-1.5									
_ Method: 300.0 - Anions, Ion Cł	nromatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

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Released to Imaging: 5/26/2023 9:44:42 AM

Job ID: 880-16308-1 SDG: Eddy Co NM

Client Sample ID: Augar Hole 5 Date Collected: 06/23/22 11:50

Project/Site: Contango-Karlsbad Corral SWD 2

Lab Sample ID: 880-16308-23

Matrix: Solid

Date Received: 06/24/22 16:40 Sample Depth: 0.0'-0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	< 0.00199	U	0.00199		mg/Kg		06/27/22 16:24	07/01/22 01:51	
Toluene	0.00224		0.00199		mg/Kg		06/27/22 16:24	07/01/22 01:51	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/27/22 16:24	07/01/22 01:51	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/27/22 16:24	07/01/22 01:51	
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/27/22 16:24	07/01/22 01:51	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/27/22 16:24	07/01/22 01:51	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	114		70 - 130				06/27/22 16:24	07/01/22 01:51	
1,4-Difluorobenzene (Surr)	89		70 - 130				06/27/22 16:24	07/01/22 01:51	
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/01/22 10:56	
Method: 8015 NM - Diesel Range	Organics (DR	0) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	56.1		50.0		mg/Kg			06/28/22 10:27	
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/27/22 09:45	06/28/22 05:48	
Diesel Range Organics (Over C10-C28)	56.1		50.0		mg/Kg		06/27/22 09:45	06/28/22 05:48	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/27/22 09:45	06/28/22 05:48	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	96		70 - 130				06/27/22 09:45	06/28/22 05:48	
o-Terphenyl	95		70 - 130				06/27/22 09:45	06/28/22 05:48	
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	16.5		5.03		mg/Kg			07/02/22 18:19	
lient Sample ID: Augar Hol	e 5						Lab Samp	le ID: 880-16	308-2
ate Collected: 06/23/22 11:55								Matri	x: Soli
ate Received: 06/24/22 16:40									
ample Depth: 1.0'-1.5									
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	25.1		5.01		mg/Kg			07/02/22 18:27	

RL

MDL Unit

D

Prepared

Job ID: 880-16308-1 SDG: Eddy Co NM

Client Sample ID: Augar Hole 6 Date Collected: 06/23/22 12:00

Project/Site: Contango-Karlsbad Corral SWD 2

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

Sample Depth: 0.0'-0.5

Analyte

Lab Sample	e ID:	880-1630	8-25

Analyzed

Matrix: S

08-25 : Solid	
	4
	5
Dil Fac 1	6
1	7
1 1	8
Dil Fac	9
1 1	
Dil Fac	
1	
Dil Fac	13
1	
Dil Fac	

Date Received: 06/24/22 16:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/27/22 16:24	07/01/22 02:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/27/22 16:24	07/01/22 02:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/27/22 16:24	07/01/22 02:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/27/22 16:24	07/01/22 02:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/27/22 16:24	07/01/22 02:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/27/22 16:24	07/01/22 02:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				06/27/22 16:24	07/01/22 02:11	1
1,4-Difluorobenzene (Surr)	99		70 - 130				06/27/22 16:24	07/01/22 02:11	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/01/22 10:56	1
Method: 8015 NM - Diesel Range	e Organics (DR	0) (GC)							
Analyte	-	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	255		49.9		mg/Kg			06/28/22 10:27	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/27/22 09:45	06/28/22 05:27	1
Diesel Range Organics (Over C10-C28)	255		49.9		mg/Kg		06/27/22 09:45	06/28/22 05:27	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/27/22 09:45	06/28/22 05:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130				06/27/22 09:45	06/28/22 05:27	1
o-Terphenyl	114		70 - 130				06/27/22 09:45	06/28/22 05:27	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.2		5.02		mg/Kg			07/02/22 18:35	1
lient Sample ID: Augar Hol	le 6						Lab Samp	le ID: 880-16	308-26
ate Collected: 06/23/22 12:05								Matri	ix: Solid
ate Received: 06/24/22 16:40									
ample Depth: 1.0'-1.5									
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	quannoi							

Eurofins Midland

Released to Imaging: 5/26/2023 9:44:42 AM

Job ID: 880-16308-1 SDG: Eddy Co NM

Client Sample ID: Augar Hole 7 Date Collected: 06/23/22 12:10

Project/Site: Contango-Karlsbad Corral SWD 2

Date Collected: 06/23/22 12:10 Date Received: 06/24/22 16:40 Sample Depth: 0.0'-0.5

Lab Sample	ID:	880-16308-27

Matrix: Solid

5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		06/27/22 16:24	07/01/22 02:32	
Toluene	<0.00200	U	0.00200		mg/Kg		06/27/22 16:24	07/01/22 02:32	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/27/22 16:24	07/01/22 02:32	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/27/22 16:24	07/01/22 02:32	
o-Xylene	0.00211		0.00200		mg/Kg		06/27/22 16:24	07/01/22 02:32	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/27/22 16:24	07/01/22 02:32	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	113		70 - 130				06/27/22 16:24	07/01/22 02:32	
1,4-Difluorobenzene (Surr)	102		70 - 130				06/27/22 16:24	07/01/22 02:32	
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/01/22 10:56	
Method: 8015 NM - Diesel Rang	e Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	1310		49.9		mg/Kg			06/28/22 10:27	
Method: 8015B NM - Diesel Rar	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/27/22 09:45	06/28/22 04:45	
Diesel Range Organics (Over C10-C28)	1160		49.9		mg/Kg		06/27/22 09:45	06/28/22 04:45	
Oll Range Organics (Over C28-C36)	145		49.9		mg/Kg		06/27/22 09:45	06/28/22 04:45	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	115		70 - 130				06/27/22 09:45	06/28/22 04:45	
o-Terphenyl	104		70 - 130				06/27/22 09:45	06/28/22 04:45	
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	25.1		4.98		mg/Kg			07/02/22 18:50	
lient Sample ID: Augar Ho	le 7						Lab Samp	le ID: 880-16	308-2
ate Collected: 06/23/22 12:15 ate Received: 06/24/22 16:40								Matri	ix: Soli
ample Depth: 1.0'-1.5									
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble							
					11		Durana	A sea b sea al	D:1 E-
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa

Eurofins Midland

Released to Imaging: 5/26/2023 9:44:42 AM

RL

MDL Unit

D

Prepared

Job ID: 880-16308-1 SDG: Eddy Co NM

Client Sample ID: Augar Hole 8 Date Collected: 06/23/22 12:20

Date Received: 06/24/22 16:40 Sample Depth: 0.0'-0.5

Analyte

Lab Sample	ID:	880-16308-29

Analyzed

Matrix: Solid

08-29 Solid	
	4
	5
Dil Fac 1	6
1	
1 1	8
Dil Fac	9
1 1	
Dil Fac	
1	
Dil Fac	13

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

Project/Site: Contango-Karlsbad Corral SWD 2

Analyte	Result	Quanner	RL	INIDE	Unit	-	Flepaleu	Analyzeu	DirFac
Benzene	< 0.00198	U	0.00198		mg/Kg		06/27/22 16:24	07/01/22 02:52	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/27/22 16:24	07/01/22 02:52	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/27/22 16:24	07/01/22 02:52	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/27/22 16:24	07/01/22 02:52	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/27/22 16:24	07/01/22 02:52	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/27/22 16:24	07/01/22 02:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				06/27/22 16:24	07/01/22 02:52	1
1,4-Difluorobenzene (Surr)	94		70 - 130				06/27/22 16:24	07/01/22 02:52	1
- Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			07/01/22 10:56	1
- Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)							
Analyte	-	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/28/22 10:27	1
Method: 8015B NM - Diesel Ran	ae Organics (D	RO) (GC)							
Analyte	·	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0		50.0		mg/Kg		06/27/22 09:45	06/28/22 00:31	1
(GRO)-C6-C10	00.0	0	00.0				00/21/22 00110	00,20,22 00.0 .	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/27/22 09:45	06/28/22 00:31	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/27/22 09:45	06/28/22 00:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130				06/27/22 09:45	06/28/22 00:31	1
o-Terphenyl	111		70 - 130				06/27/22 09:45	06/28/22 00:31	1
_ Method: 300.0 - Anions, Ion Chr	omatography -	Soluble							
- Method: 300.0 - Anions, Ion Chr Analyte		Soluble Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			RL 4.98	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/02/22 15:20	Dil Fac
Analyte Chloride	Result 12.1			MDL		<u>D</u>		07/02/22 15:20	1
Analyte	Result 12.1			MDL		<u> </u>		07/02/22 15:20	1
Analyte Chloride Client Sample ID: Augar Ho Date Collected: 06/23/22 12:25	Result 12.1			MDL		<u> </u>		07/02/22 15:20	1 308-30
Analyte Chloride Client Sample ID: Augar Ho Date Collected: 06/23/22 12:25 Date Received: 06/24/22 16:40	Result 12.1			MDL		<u> </u>		07/02/22 15:20	1 308-30
Analyte Chloride Client Sample ID: Augar Ho Date Collected: 06/23/22 12:25 Date Received: 06/24/22 16:40 Sample Depth: 1.0'-1.5	Result 12.1	Qualifier		MDL		<u>D</u>		07/02/22 15:20	1 308-30
Analyte Chloride Client Sample ID: Augar Ho Date Collected: 06/23/22 12:25 Date Received: 06/24/22 16:40	Result 12.1 le 8	Qualifier				D		07/02/22 15:20	1 308-30

Job ID: 880-16308-1 SDG: Eddy Co NM

Client Sample ID: Augar Hole 9 Date Collected: 06/23/22 12:30

Sample Depth: 0.0'-0.5

Lab	Sample	ID:	880-16308-3

Matrix: Solid

id	
	4
	5
ac 1 1	6
1	
1 1	8
	9
ac 1 1	
ac	
ac 1	
ac	13

Date Received: 06/24/22 16:40

Method: 8021B - Volatile Organic Compounds (GC)

Project/Site: Contango-Karlsbad Corral SWD 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/27/22 16:24	07/01/22 03:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/27/22 16:24	07/01/22 03:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/27/22 16:24	07/01/22 03:12	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/27/22 16:24	07/01/22 03:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/27/22 16:24	07/01/22 03:12	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/27/22 16:24	07/01/22 03:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				06/27/22 16:24	07/01/22 03:12	1
1,4-Difluorobenzene (Surr)	98		70 - 130				06/27/22 16:24	07/01/22 03:12	1
Method: Total BTEX - Total BTEX									
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			07/01/22 10:56	1
Method: 8015 NM - Diesel Range	•								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	214		50.0		mg/Kg			06/28/22 10:27	1
Method: 8015B NM - Diesel Rang									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/27/22 09:45	06/28/22 05:06	1
Diesel Range Organics (Over C10-C28)	214		50.0		mg/Kg		06/27/22 09:45	06/28/22 05:06	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/27/22 09:45	06/28/22 05:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				06/27/22 09:45	06/28/22 05:06	1
o-Terphenyl	111		70 - 130				06/27/22 09:45	06/28/22 05:06	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.6		5.01		mg/Kg			07/02/22 15:57	1
lient Sample ID: Augar Hol	e 9						Lab Samp	le ID: 880-16	308-32
ate Collected: 06/23/22 12:35								Matri	ix: Solid
ate Received: 06/24/22 16:40									
ample Depth: 1.0'-1.5									
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
				MDI	Unit	D	Duamanad	Analyzad	Dil Fac
Analyte	Result	Qualifier	RL	NDL	Unit	U	Prepared	Analyzed	Dirrac

Job ID: 880-16308-1 SDG: Eddy Co NM

Client Sample ID: Augar Hole 10 Date Collected: 06/23/22 12:40 Da

Project/Site: Contango-Karlsbad Corral SWD 2

Lab Sample ID: 880-16308-33

Matrix: Solid

Method: 8021B - Volatile Organi	c Compounds (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 11:52	
Toluene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 11:52	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 11:52	
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/01/22 10:06	07/01/22 11:52	
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 11:52	
Kylenes, Total	<0.00401	U	0.00401		mg/Kg		07/01/22 10:06	07/01/22 11:52	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	108		70 - 130				07/01/22 10:06	07/01/22 11:52	
1,4-Difluorobenzene (Surr)	101		70 - 130				07/01/22 10:06	07/01/22 11:52	
Method: Total BTEX - Total BTE	X Calculation								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00401	U	0.00401		mg/Kg			07/01/22 10:56	
Method: 8015 NM - Diesel Range	e Organics (DR	0) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.8	U	49.8		mg/Kg			06/28/22 10:27	
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/27/22 09:45	06/28/22 00:52	
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/27/22 09:45	06/28/22 00:52	
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/27/22 09:45	06/28/22 00:52	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
I-Chlorooctane	131	S1+	70 - 130				06/27/22 09:45	06/28/22 00:52	
p-Terphenyl	128		70 - 130				06/27/22 09:45	06/28/22 00:52	
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	<4.98	U	4.98		mg/Kg			07/02/22 16:16	

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.76		5.00		mg/Kg			07/02/22 16:43	1

Job ID: 880-16308-1 SDG: Eddy Co NM

Client Sample ID: Augar Hole 11 Date Collected: 06/23/22 12:50

Project/Site: Contango-Karlsbad Corral SWD 2

Lab Sample ID: 880-16308-35

Matrix: Solid

Date Collected: 06/23/22 12:50								Matrix: S	
Date Received: 06/24/22 16:40									
Sample Depth: 0.0'-0.5									
Mathadi 2024 D. Valatila Organia	Compoundo								
Method: 8021B - Volatile Organic Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200		0.00200		mg/Kg		07/01/22 10:06	07/01/22 13:32	1
Toluene	<0.00200		0.00200		mg/Kg		07/01/22 10:06	07/01/22 13:32	1
Ethylbenzene	<0.00200		0.00200		mg/Kg		07/01/22 10:06	07/01/22 13:32	1
m-Xylene & p-Xylene	< 0.00399		0.00399		mg/Kg		07/01/22 10:06	07/01/22 13:32	
o-Xylene	<0.00200		0.00200		mg/Kg		07/01/22 10:06	07/01/22 13:32	1
Xylenes, Total	< 0.00399		0.00399		mg/Kg		07/01/22 10:06	07/01/22 13:32	1
							_		
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				07/01/22 10:06	07/01/22 13:32	1
1,4-Difluorobenzene (Surr)	95		70 - 130				07/01/22 10:06	07/01/22 13:32	1
 Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/01/22 10:56	1
-									
Method: 8015 NM - Diesel Range	•								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/28/22 10:27	1
- Method: 8015B NM - Diesel Rang	o Organice (D								
Analyte		Qualifier	RL	мы	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9		49.9	MDL	mg/Kg		06/27/22 09:45	06/28/22 01:13	1
(GRO)-C6-C10	10.0	0	10.0		mg/ng		00/21/22 00:10	00/20/22 01:10	
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		06/27/22 09:45	06/28/22 01:13	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/27/22 09:45	06/28/22 01:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				06/27/22 09:45	06/28/22 01:13	1
o-Terphenyl	98		70 - 130				06/27/22 09:45	06/28/22 01:13	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.6		4.97		mg/Kg			07/02/22 16:53	1
Client Sample ID: Augar Hol	o 11						l ah Samn	le ID: 880-16	308-36
Date Collected: 06/23/22 12:55	6 11						Lub Oump		
Date Received: 06/23/22 12:55								Wath	ix: Solid
Sample Depth: 1.0'-1.5									
-									
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride			4.99						1

Job ID: 880-16308-1 SDG: Eddy Co NM

Client Sample ID: Augar Hole 12 Date Collected: 06/23/22 13:00 Date Received: 06/24/22 16:40 Sample Depth: 0.0'-0.5

Project/Site: Contango-Karlsbad Corral SWD 2

Lab Sample ID: 880-16308-37

Matrix: Solid

Analyte	nic Compounds (Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	< 0.00199	U	0.00199		mg/Kg		07/01/22 10:06	07/01/22 13:53	
Toluene	<0.00199	U	0.00199		mg/Kg		07/01/22 10:06	07/01/22 13:53	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/01/22 10:06	07/01/22 13:53	
m-Xylene & p-Xylene	<0.00398		0.00398		mg/Kg		07/01/22 10:06	07/01/22 13:53	
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/01/22 10:06	07/01/22 13:53	
Xylenes, Total	<0.00398		0.00398		mg/Kg		07/01/22 10:06	07/01/22 13:53	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	108		70 - 130				07/01/22 10:06	07/01/22 13:53	
1,4-Difluorobenzene (Surr)	99		70 - 130				07/01/22 10:06	07/01/22 13:53	
Method: Total BTEX - Total BTE	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/01/22 10:56	
Method: 8015 NM - Diesel Rang	ge Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	3990		250		mg/Kg			06/28/22 10:27	
Method: 8015B NM - Diesel Rar	nge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<250	U	250		mg/Kg		06/27/22 09:45	06/28/22 04:24	
Diesel Range Organics (Over C10-C28)	3460		250		mg/Kg		06/27/22 09:45	06/28/22 04:24	
Oll Range Organics (Over C28-C36)	528		250		mg/Kg		06/27/22 09:45	06/28/22 04:24	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
	% Recovery 106	Qualifier	Limits				Prepared 06/27/22 09:45	Analyzed	
Surrogate 1-Chlorooctane o-Terphenyl		Qualifier							
1-Chlorooctane o-Terphenyl	106 101		70 - 130				06/27/22 09:45	06/28/22 04:24	
1-Chlorooctane o-Terphenyl	106 101 aromatography -		70 - 130	MDL	Unit	D	06/27/22 09:45	06/28/22 04:24	Dil Fa
1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Ch	106 101 aromatography -	Soluble	70 - 130 70 - 130	MDL	Unit mg/Kg	<u>D</u>	06/27/22 09:45 06/27/22 09:45	06/28/22 04:24 06/28/22 04:24	
1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Ch Analyte Chloride Client Sample ID: Augar Ho	106 101 aromatography - <u>Result</u> 45.5	Soluble	70 - 130 70 - 130 RL	MDL		<u>D</u>	06/27/22 09:45 06/27/22 09:45 Prepared	06/28/22 04:24 06/28/22 04:24 Analyzed	Dil Fa
1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Ch Analyte Chloride Client Sample ID: Augar Ho ate Collected: 06/23/22 13:05 ate Received: 06/24/22 16:40	106 101 aromatography - <u>Result</u> 45.5	Soluble	70 - 130 70 - 130 RL	MDL		<u> </u>	06/27/22 09:45 06/27/22 09:45 Prepared	06/28/22 04:24 06/28/22 04:24 Analyzed 07/02/22 17:11 le ID: 880-16	Dil Fa 308-3
1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Ch Analyte Chloride Client Sample ID: Augar Ho Date Collected: 06/23/22 13:05 Date Received: 06/24/22 16:40 Sample Depth: 1.0'-1.5	106 101 aromatography - Result 45.5 ole 12	Soluble Qualifier	70 - 130 70 - 130 RL	MDL		<u>D</u>	06/27/22 09:45 06/27/22 09:45 Prepared	06/28/22 04:24 06/28/22 04:24 Analyzed 07/02/22 17:11 le ID: 880-16	Dil Fa
1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Ch Analyte Chloride Client Sample ID: Augar Ho pate Collected: 06/23/22 13:05 pate Received: 06/24/22 16:40	106 101 aromatography - Result 45.5 ole 12	Soluble Qualifier	70 - 130 70 - 130 RL			D	06/27/22 09:45 06/27/22 09:45 Prepared	06/28/22 04:24 06/28/22 04:24 Analyzed 07/02/22 17:11 le ID: 880-16	Dil Fa

Released to Imaging: 5/26/2023 9:44:42 AM

Job ID: 880-16308-1 SDG: Eddy Co NM

Client Sample ID: Augar Hole 13 Date Collected: 06/23/22 13:10

Project/Site: Contango-Karlsbad Corral SWD 2

Lab Sample ID: 880-16308-39

Matrix: Solid

Date Received: 06/24/22 16:40 Sample Depth: 0.0'-0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 14:13	
Toluene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 14:13	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 14:13	
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/01/22 10:06	07/01/22 14:13	
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 14:13	
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/01/22 10:06	07/01/22 14:13	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	115		70 - 130				07/01/22 10:06	07/01/22 14:13	
1,4-Difluorobenzene (Surr)	100		70 - 130				07/01/22 10:06	07/01/22 14:13	
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00401	U	0.00401		mg/Kg			07/01/22 10:56	
Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	56.5		50.0		mg/Kg			06/28/22 10:27	
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/27/22 09:45	06/28/22 01:34	
Diesel Range Organics (Over C10-C28)	56.5		50.0		mg/Kg		06/27/22 09:45	06/28/22 01:34	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/27/22 09:45	06/28/22 01:34	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	106		70 - 130				06/27/22 09:45	06/28/22 01:34	
o-Terphenyl	107		70 - 130				06/27/22 09:45	06/28/22 01:34	
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	7.22		4.95		mg/Kg			07/02/22 17:29	
lient Sample ID: Augar Ho	le 13						Lab Samp	le ID: 880-16	308-4
ate Collected: 06/23/22 13:15								Matri	x: Solid
ate Received: 06/24/22 16:40									
Sample Depth: 1.0'-1.5									
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa

RL

0.00201

0.00201

MDL Unit

mg/Kg

mg/Kg

D

Prepared

07/01/22 10:06

07/01/22 10:06

Job ID: 880-16308-1 SDG: Eddy Co NM

Client Sample ID: Augar Hole 14

Project/Site: Contango-Karlsbad Corral SWD 2

Lab Sample ID: 880-16308-41

Analyzed

07/01/22 14:34

07/01/22 14:34

Matrix: Solid

ate Collected: 06/23/22 13:20 ate Received: 06/24/22 16:40 ample Depth: 0.0'-0.5	-	
Method: 8021B - Volatile Org	ganic Compounds (GC)
Analyte	Result	Qualifier
Benzene	<0.00201	U
Toluene	<0.00201	U
Ethylbenzene	<0.00201	U

Toluelle	<0.00201	0	0.00201		iliy/rty		07/01/22 10.00	07/01/22 14.34	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/01/22 10:06	07/01/22 14:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/01/22 10:06	07/01/22 14:34	1
o-Xylene	0.00435		0.00201		mg/Kg		07/01/22 10:06	07/01/22 14:34	1
Xylenes, Total	0.00435		0.00402		mg/Kg		07/01/22 10:06	07/01/22 14:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				07/01/22 10:06	07/01/22 14:34	1
1,4-Difluorobenzene (Surr)	91		70 - 130				07/01/22 10:06	07/01/22 14:34	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00435		0.00402		mg/Kg			07/01/22 10:56	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/28/22 10:27	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		06/27/22 09:45	06/28/22 01:55	1
(GRO)-C6-C10									
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/27/22 09:45	06/28/22 01:55	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/27/22 09:45	06/28/22 01:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				06/27/22 09:45	06/28/22 01:55	1
o-Terphenyl	100		70 - 130				06/27/22 09:45	06/28/22 01:55	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.4		4.98		mg/Kg			07/02/22 18:06	1
Client Sample ID: Augar Hol	e 14						Lab Samp	le ID: 880-16	308-42
ate Collected: 06/23/22 13:25								Matri	x: Solid
ate Received: 06/24/22 16:40									
Sample Depth: 1.0'-1.5	omatography -	Soluble							
Date Received: 06/24/22 16:40 Sample Depth: 1.0'-1.5 - Method: 300.0 - Anions, Ion Chro Analyte		Soluble Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Job ID: 880-16308-1 SDG: Eddy Co NM

Client Sample ID: Augar Hole 15 Date Collected: 06/23/22 13:30 Date Received: 06/24/22 16:40

Project/Site: Contango-Karlsbad Corral SWD 2

Lab Sample ID: 880-16308-43

Matrix: Solid

Method: 8021B - Volatile Organi									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 14:54	
Toluene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 14:54	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 14:54	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/01/22 10:06	07/01/22 14:54	
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 14:54	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/01/22 10:06	07/01/22 14:54	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
4-Bromofluorobenzene (Surr)	108		70 - 130				07/01/22 10:06	07/01/22 14:54	
1,4-Difluorobenzene (Surr)	95		70 - 130				07/01/22 10:06	07/01/22 14:54	
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Total BTEX	< 0.00399	U	0.00399		mg/Kg			07/01/22 10:56	
Method: 8015 NM - Diesel Range	organics (DR	0) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Total TPH	<50.0	-	50.0		mg/Kg			06/28/22 10:27	
Method: 8015B NM - Diesel Rang	no Organice (D								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Gasoline Range Organics			50.0		mg/Kg		06/27/22 09:45	06/28/22 02:17	
GRO)-C6-C10	<50.0	0	50.0		ilig/itg		00/21/22 09.43	00/20/22 02.17	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/27/22 09:45	06/28/22 02:17	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/27/22 09:45	06/28/22 02:17	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
1-Chlorooctane			70 - 130				06/27/22 09:45	06/28/22 02:17	
p-Terphenyl	103		70 - 130				06/27/22 09:45	06/28/22 02:17	
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Chloride	<4.96	U	4.96		mg/Kg			07/02/22 18:43	
lient Sample ID: Augar Hol	le 16						Lab Samp	le ID: 880-16	308-4
								Matri	x: So
ate Collected: 06/23/22 13:35									
ate Collected: 06/23/22 13:35 ate Received: 06/24/22 16:40									
ate Received: 06/24/22 16:40	c Compounds (GC)							
ate Received: 06/24/22 16:40 ample Depth: 0.0'-0.5		GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
ate Received: 06/24/22 16:40 ample Depth: 0.0'-0.5 Method: 8021B - Volatile Organio		Qualifier	RL	MDL		D	Prepared 07/01/22 10:06	Analyzed	Dil F
ate Received: 06/24/22 16:40 ample Depth: 0.0'-0.5 Method: 8021B - Volatile Organic Analyte	Result	Qualifier		MDL	mg/Kg	D			Dil F
ate Received: 06/24/22 16:40 ample Depth: 0.0'-0.5 Method: 8021B - Volatile Organic Analyte Benzene Foluene	Result <0.00199	Qualifier U U	0.00199	MDL	mg/Kg mg/Kg	<u>D</u>	07/01/22 10:06	07/01/22 15:15	Dil F
ate Received: 06/24/22 16:40 ample Depth: 0.0'-0.5 Method: 8021B - Volatile Organic Analyte Benzene Foluene Ethylbenzene	Result <0.00199	Qualifier U U U	0.00199 0.00199 0.00199	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/01/22 10:06 07/01/22 10:06 07/01/22 10:06	07/01/22 15:15 07/01/22 15:15 07/01/22 15:15	Dil F
ate Received: 06/24/22 16:40 ample Depth: 0.0'-0.5 Method: 8021B - Volatile Organic Analyte Benzene	Result <0.00199	Qualifier U U U U U	0.00199	MDL	mg/Kg mg/Kg	<u> </u>	07/01/22 10:06 07/01/22 10:06	07/01/22 15:15 07/01/22 15:15	Dil F

Limits	Prepared	Analyzed
70 - 130	07/01/22 10:06	07/01/22 15:15

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Surrogate

4-Bromofluorobenzene (Surr)

%Recovery Qualifier

116

Dil Fac

1

Lab Sample ID: 880-16308-44

Job ID: 880-16308-1

SDG: Eddy Co NM

Matrix: Solid

Client Sample Results

Client: American Safety Services Inc. Project/Site: Contango-Karlsbad Corral SWD 2

Client Sample ID: Augar Hole 16

Date Collected: 06/23/22 13:35 Date Received: 06/24/22 16:40

Sample Depth: 0.0'-0.5

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	95		70 - 130				07/01/22 10:06	07/01/22 15:15	1
Method: Total BTEX - Total BTE	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/01/22 10:56	
Method: 8015 NM - Diesel Range	Organics (DR	0) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9		mg/Kg			06/28/22 10:27	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/27/22 09:45	06/28/22 02:38	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/27/22 09:45	06/28/22 02:38	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/27/22 09:45	06/28/22 02:38	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	94		70 - 130				06/27/22 09:45	06/28/22 02:38	
o-Terphenyl	92		70 - 130				06/27/22 09:45	06/28/22 02:38	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	9.99		4.99		mg/Kg			07/02/22 18:52	

Date Collected: 06/23/22 13:40 Date Received: 06/24/22 16:40 Sample Depth: 1.0'-1.5

Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00199 U 0.00199 mg/Kg 07/01/22 10:06 07/01/22 17:39 Toluene <0.00199 U 0.00199 07/01/22 10:06 07/01/22 17:39 mg/Kg 1 Ethylbenzene <0.00199 U 0.00199 mg/Kg 07/01/22 10:06 07/01/22 17:39 07/01/22 17:39 07/01/22 10:06 m-Xylene & p-Xylene <0.00398 U 0.00398 mg/Kg 1 o-Xylene <0.00199 U 0.00199 mg/Kg 07/01/22 10:06 07/01/22 17:39 1 Xylenes, Total <0.00398 U 0.00398 mg/Kg 07/01/22 10:06 07/01/22 17:39 1 %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 110 70 - 130 07/01/22 10:06 4-Bromofluorobenzene (Surr) 07/01/22 17:39 1 1,4-Difluorobenzene (Surr) 105 70 - 130 07/01/22 10:06 07/01/22 17:39 1 Method: Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed Total BTEX <0.00398 U 0.00398 07/01/22 10:56 mg/Kg 1 Method: 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <49.8 U 49.8 Total TPH mg/Kg 06/28/22 10:27 1

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Matrix: Solid

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Sample Depth: 1.0'-1.5

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Analyte

C10-C28)

Surrogate 1-Chlorooctane

o-Terphenyl

Analyte

Chloride

(GRO)-C6-C10

RL

49.8

49.8

49.8

RL

5.04

Limits

70 - 130

70 - 130

MDL

Unit

mg/Kg

mg/Kg

mg/Kg

MDL Unit

mg/Kg

D

D

Prepared

06/27/22 09:45

06/27/22 09:45

06/27/22 09:45

Prepared

06/27/22 09:45

06/27/22 09:45

Prepared

Job ID: 880-16308-1 SDG: Eddy Co NM

Client Sample ID: Augar Hole 17 Date Collected: 06/23/22 13:40 Date Received: 06/24/22 16:40

Project/Site: Contango-Karlsbad Corral SWD 2

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Method: 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

<49.8 U

<49.8 U

<49.8 U

95

93

9.52

Result Qualifier

Qualifier

%Recovery

Lab Sample ID: 880-16308-45

Analyzed

06/28/22 03:20

06/28/22 03:20

06/28/22 03:20

Analyzed

06/28/22 03:20

06/28/22 03:20

Analyzed

07/02/22 19:02

Matrix: Solid

Dil Fac

1

1

1

1

1

1

Dil Fac

Dil Fac

Surrogate Summary

Client: American Safety Services Inc. Project/Site: Contango-Karlsbad Corral SWD 2

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	 _
380-16308-1	Augar Hole 1	138 S1+	78	
880-16308-1 MS	Augar Hole 1	267 S1+	104	
880-16308-1 MSD	Augar Hole 1	952 S1+	373 S1+	
880-16308-10	Augar Hole 2	103	97	
880-16308-11	Augar Hole 2	109	102	
880-16308-19	Augar Hole 3	116	103	
880-16308-21	Augar Hole 4	158 S1+	94	
880-16308-23	Augar Hole 5	114	89	
880-16308-25	Augar Hole 6	109	99	
880-16308-27	Augar Hole 7	113	102	
880-16308-29	Augar Hole 8	117	94	
880-16308-31	Augar Hole 9	106	98	
880-16308-33	Augar Hole 10	108	101	
880-16308-33 MS	Augar Hole 10	107	101	
880-16308-33 MSD	Augar Hole 10	107	102	
880-16308-35	Augar Hole 11	112	95	
880-16308-37	Augar Hole 12	108	99	
380-16308-39	Augar Hole 13	115	100	
380-16308-41	Augar Hole 14	105	91	
380-16308-43	Augar Hole 15	108	95	
880-16308-44	Augar Hole 16	116	95	
880-16308-45	Augar Hole 17	110	105	
LCS 880-28494/1-A	Lab Control Sample	101	97	
LCS 880-28826/1-A	Lab Control Sample	105	99	
LCSD 880-28494/2-A	Lab Control Sample Dup	107	102	
LCSD 880-28826/2-A	Lab Control Sample Dup	110	103	
MB 880-28494/5-A	Method Blank	101	99	
MB 880-28678/5-A	Method Blank	101	98	
MB 880-28826/5-A	Method Blank	97	86	

BFB = 4-Bromofluorobenzene (Surr) DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Matrix: Solid

Matrix: Solid				Prep Type: Total/NA
				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-16308-1	Augar Hole 1	128	101	
880-16308-10	Augar Hole 2	103	107	
880-16308-10 MS	Augar Hole 2	95	88	
880-16308-10 MSD	Augar Hole 2	98	89	
880-16308-11	Augar Hole 2	112	116	
880-16308-19	Augar Hole 3	109	112	
880-16308-21	Augar Hole 4	122	111	
880-16308-23	Augar Hole 5	96	95	
880-16308-25	Augar Hole 6	116	114	
880-16308-27	Augar Hole 7	115	104	

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Job ID: 880-16308-1 SDG: Eddy Co NM

Prep Type: Total/NA

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

				Percent Surrogate Recovery
		1CO1	OTPH1	i creent ourrogate Recovery
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-16308-29	Augar Hole 8	110	111	
880-16308-31	Augar Hole 9	114	111	
880-16308-33	Augar Hole 10	131 S1+	128	
880-16308-35	Augar Hole 11	99	98	
880-16308-37	Augar Hole 12	106	101	
880-16308-39	Augar Hole 13	106	107	
880-16308-41	Augar Hole 14	99	100	
880-16308-43	Augar Hole 15	104	103	
880-16308-44	Augar Hole 16	94	92	
880-16308-45	Augar Hole 17	95	93	
LCS 880-28431/2-A	Lab Control Sample	110	109	
LCSD 880-28431/3-A	Lab Control Sample Dup	112	112	
MB 880-28431/1-A	Method Blank	112	123	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				
_				

Job ID: 880-16308-1

SDG: Eddy Co NM

Prep Type: Total/NA

Client: American Safety Services Inc. Project/Site: Contango-Karlsbad Corral SWD 2

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-28494/5-A Matrix: Solid Analysis Batch: 28710							Client Sa	mple ID: Metho Prep Type: 1 Prep Batch	otal/NA
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/27/22 16:24	06/30/22 23:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/27/22 16:24	06/30/22 23:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/27/22 16:24	06/30/22 23:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/27/22 16:24	06/30/22 23:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/27/22 16:24	06/30/22 23:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/27/22 16:24	06/30/22 23:40	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131		83 - 1+3				37068066 17/64	370+3066 6+/43	1
1:4-9 ,fluorobenzene (Surr)	22		83 - 1+3				37068066 17/64	370+3066 6+/43	1
Г									

Lab Sample ID: LCS 880-28494/1-A Matrix: Solid

Analysis Batch: 28710

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08526		mg/Kg		85	70 - 130	
Toluene	0.100	0.09499		mg/Kg		95	70 - 130	
Ethylbenzene	0.100	0.08386		mg/Kg		84	70 - 130	
m-Xylene & p-Xylene	0.200	0.1701		mg/Kg		85	70 - 130	
o-Xylene	0.100	0.09833		mg/Kg		98	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	131		83 - 1+3
1:4-9 ,fluorobenzene (Surr)	28		83 - 1+3

Lab Sample ID: LCSD 880-28494/2-A

Matrix: Solid

Analysis Batch: 28710						Prep	Batch:	28494	
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08812		mg/Kg		88	70 - 130	3	35
Toluene	0.100	0.09629		mg/Kg		96	70 - 130	1	35
Ethylbenzene	0.100	0.08542		mg/Kg		85	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1725		mg/Kg		86	70 - 130	1	35
o-Xylene	0.100	0.1001		mg/Kg		100	70 - 130	2	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	138		83 - 1+3
1:4-9 ,fluorobenzene (Surr)	136		83 - 1+3

Lab Sample ID: 880-16308-1 MS Matrix: Solid

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Analysis Batch: 28710									Prep	Batch: 28494
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U F1 F2	0.100	<0.00201	U F1	mg/Kg		0.7	70 - 130	
Toluene	0.0613	F1	0.100	<0.00201	U F1	mg/Kg		0	70 - 130	

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Prep Type: Total/NA

Client Sample ID: Augar Hole 1

Sample	Sample	Spike	MS
Result	Qualifier	Added	Result
<0.00201	U F1 F2	0.100	<0.00201
0.0613	F1	0.100	<0.00201
	Result <0.00201	SampleSampleResultQualifier<0.00201	Result Qualifier Added <0.00201

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 28

npie	
I/NA	
8494	
	13

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Client: American Safety Services Inc. Project/Site: Contango-Karlsbad Corral SWD 2 Page 52 of 159

Job ID: 880-16308-1 SDG: Eddy Co NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-16308-1 MS Matrix: Solid	\$										Client S	-	Гуре: То	otal/N
Analysis Batch: 28710													Batch:	2849
	Sample			Spike	MS	MS				_		%Rec		
Analyte		Qual		Added	Result	Qual	lifier	Unit			%Rec	Limits		
Ethylbenzene	0.266	F1 F2	2	0.100	0.3933			mg/Kg			127	70 - 130		
		MS												
Surrogate		Qual	lifier	Limits										
4-Bromofluorobenzene (Surr)		S1D		83 - 1+3										
1:4-9 ,fluorobenzene (Surr)	134			83 - 1+3										
Lab Sample ID: 880-16308-1 MS	3D										Client S	Sample ID:	Augar	Hole
Matrix: Solid												Prep 1	Гуре: То	otal/N
Analysis Batch: 28710													Batch:	
-	Sample	Sam	ple	Spike	MSD	MSD)					%Rec		RF
Analyte	Result	Qual	lifier	Added	Result	Qual	lifier	Unit		D	%Rec	Limits	RPD	Lin
Benzene	<0.00201	U F1	F2	0.0996	0.1003	F2		mg/Kg			101	70 - 130	197	;
Foluene	0.0613	F1		0.0996	0.3642	F1		mg/Kg			304	70 - 130	NC	:
	MSD	MSD)											
Surrogate	%Recovery	Qual	lifier	Limits										
-Bromofluorobenzene (Surr)	2i 6	S1D		83 - 1+3										
:4-9 ,fluorobenzene (Surr)	+8+	S1D		83 - 1+3										
Atrix: Solid	D-A	MB	MP								Client S	-	Method Type: To Batch:	otal/N
Matrix: Solid Analysis Batch: 28710			MB Qualifier	RL		MDL	Unit		D		Client S	Prep 1	Type: To Batch:	otal/N : 2867
Matrix: Solid Analysis Batch: 28710 Analyte		sult				MDL	Unit mg/Kg		<u>D</u>	Pi		Prep 1 Prep	Type: To Batch:	otal/N : 2867
Matrix: Solid Analysis Batch: 28710 Analyte Benzene	Re	esult 0200	Qualifier			MDL			<u>D</u>	Pr 06/2	repared	Prep 1 Prep Analyz	Type: To Batch: 2ed 12:01	otal/N : 2867
Matrix: Solid Analysis Batch: 28710 Analyte Benzene Joluene	Re <0.00	esult)200)200	Qualifier U U	0.00200		MDL	mg/Kg		<u>D</u>	Pr 06/29 06/29	r epared 9/22 15:01	Prep 1 Prep Analyz 06/30/22	Type: To Batch: red 12:01	otal/N : 2867
Matrix: Solid Analysis Batch: 28710 Analyte Benzene Toluene Thylbenzene	Re <0.00 <0.00	esult)200)200)200	Qualifier U U	0.00200		MDL	mg/Kg mg/Kg		<u>D</u>	Pr 06/2 06/2	r epared 9/22 15:01 9/22 15:01	Prep 1 Prep Analyz 06/30/22 06/30/22	Type: To Batch: red 12:01 12:01 12:01	otal/N : 2867
Matrix: Solid Analysis Batch: 28710 Analyte Benzene Foluene Ethylbenzene n-Xylene & p-Xylene		200 200 200 200 200 200	Qualifier U U U	0.00200 0.00200 0.00200		MDL	mg/Kg mg/Kg mg/Kg		<u>D</u>	Pi 06/2 06/2 06/2	repared 9/22 15:01 9/22 15:01 9/22 15:01	Prep 1 Prep 06/30/22 06/30/22 06/30/22	Type: To Batch: 12:01 12:01 12:01 12:01	otal/N : 2867
Matrix: Solid Analysis Batch: 28710 Analyte Benzene Toluene Thylbenzene n-Xylene & p-Xylene Xylene	Re <0.00 <0.00 <0.00 <0.00	esult 0200 0200 0200 0200 0400 0200	Qualifier U U U U U	0.00200 0.00200 0.00200 0.00200 0.00400		MDL	mg/Kg mg/Kg mg/Kg mg/Kg		<u>D</u>	Pr 06/29 06/29 06/29 06/29	repared 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01	Prep 1 Prep 06/30/22 06/30/22 06/30/22 06/30/22	Type: To Batch: 12:01 12:01 12:01 12:01 12:01 12:01	otal/N : 2867
Matrix: Solid Analysis Batch: 28710 Analyte Benzene Toluene Thylbenzene n-Xylene & p-Xylene Xylene	Re <0.00 <0.00 <0.00 <0.00 <0.00	esult 2200 2200 2200 2200 2200 2200 2200 22	Qualifier U U U U U	0.00200 0.00200 0.00200 0.00400 0.00400		MDL	mg/Kg mg/Kg mg/Kg mg/Kg		<u>D</u>	Pr 06/29 06/29 06/29 06/29	repared 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01	Prep 1 Prep 06/30/22 06/30/22 06/30/22 06/30/22	Type: To Batch: 12:01 12:01 12:01 12:01 12:01 12:01	otal/N : 2867
Lab Sample ID: MB 880-28678/5 Matrix: Solid Analysis Batch: 28710 Analyte Benzene Foluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Kylenes, Total	Re <0.00	esult 0200 0200 0200 0400 0400 0400 0400 040	Qualifier U U U U U U U	0.00200 0.00200 0.00200 0.00400 0.00200 0.00400 Limits		MDL	mg/Kg mg/Kg mg/Kg mg/Kg		<u>D</u>	Pri 06/29 06/29 06/29 06/29 06/29 06/29	repared 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01	Prep 1 Prep 06/30/22 06/30/22 06/30/22 06/30/22 06/30/22 06/30/22	Type: To Batch: red 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01	otal/N
Matrix: Solid Analysis Batch: 28710 Benzene Toluene Ethylbenzene n-Xylene & p-Xylene Xylene Kylenes, Total Surrogate H-Bromofluorobenzene (Surr)	Re <0.00	esult)200)201	Qualifier U U U U U U U U MB	0.00200 0.00200 0.00200 0.00400 0.00200 0.00400 <u>Limits</u> 83 - 1+3		MDL	mg/Kg mg/Kg mg/Kg mg/Kg		<u>D</u>	Pi 06/2 06/2 06/2 06/2 06/2 06/2 7 06/2	repared 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 repared 2066 1i /31	Prep 1 Prep 06/30/22 06/30/22 06/30/22 06/30/22 06/30/22 06/30/22 06/30/22 06/30/22	Type: To Batch: red 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01	Dil F
Matrix: Solid Analysis Batch: 28710 Innalyte Ienzene Joluene Ithylbenzene In-Xylene & p-Xylene -Xylene Iylenes, Total Furrogate -Bromofluorobenzene (Surr)	Re <0.00	esult 0200 0200 0200 0400 0400 0400 0400 040	Qualifier U U U U U U U U MB	0.00200 0.00200 0.00200 0.00400 0.00200 0.00400 Limits		MDL	mg/Kg mg/Kg mg/Kg mg/Kg		<u>D</u>	Pi 06/2 06/2 06/2 06/2 06/2 06/2 7 06/2	repared 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01	Prep 1 Prep 06/30/22 06/30/22 06/30/22 06/30/22 06/30/22 06/30/22 06/30/22 06/30/22	Type: To Batch: red 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01	Dil F
Matrix: Solid Analysis Batch: 28710 Marine M	Re <0.00	esult)200)201	Qualifier U U U U U U U U MB	0.00200 0.00200 0.00200 0.00400 0.00200 0.00400 <u>Limits</u> 83 - 1+3		MDL	mg/Kg mg/Kg mg/Kg mg/Kg		<u>D</u>	Pr 06/2: 06/2: 06/2: 06/2: 06/2: 06/2: 37/06 37/06	repared 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 repared 2066 1i /31 2066 1i /31	Prep 1 Prep 06/30/22 06/30/22 06/30/22 06/30/22 06/30/22 06/30/22 06/30/22 06/30/22	Type: To Batch: red 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01	Dil F
Matrix: Solid Analysis Batch: 28710 Analyte Benzene Foluene Ethylbenzene n-Xylene & p-Xylene -Xylene & p-Xylene & p-Xylene -Xylene & p-Xylene & p-Xylene -Xylene & p-Xylene & p-X	Re <0.00	esult)200)201	Qualifier U U U U U U U U MB	0.00200 0.00200 0.00200 0.00400 0.00200 0.00400 <u>Limits</u> 83 - 1+3		MDL	mg/Kg mg/Kg mg/Kg mg/Kg		<u>D</u>	Pr 06/2: 06/2: 06/2: 06/2: 06/2: 06/2: 37/06 37/06	repared 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 repared 2066 1i /31 2066 1i /31	Prep 1 Prep 06/30/22 06/30/22 06/30/22 06/30/22 06/30/22 06/30/22 06/30/22 370+3066 370+3066 ample ID:	Type: To Batch: red 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01	Dil F
Matrix: Solid Analysis Batch: 28710 Marysis Batch:	Re <0.00	esult)200)201	Qualifier U U U U U U U U MB	0.00200 0.00200 0.00200 0.00400 0.00200 0.00400 <u>Limits</u> 83 - 1+3		MDL	mg/Kg mg/Kg mg/Kg mg/Kg		<u>D</u>	Pr 06/2: 06/2: 06/2: 06/2: 06/2: 06/2: 37/06 37/06	repared 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 repared 2066 1i /31 2066 1i /31	Prep 1 Prep 06/30/22 06/30/22 06/30/22 06/30/22 06/30/22 06/30/22 06/30/22 370+366 370+366 ample ID: Prep 1	Type: To Batch: red 12:01 Method	Dil F
Matrix: Solid Malysis Batch: 28710 malyte enzene oluene thylbenzene -Xylene & p-Xylene -Xylene & p-Xylene -Xylene ylenes, Total urrogate -Bromofluorobenzene (Surr) :4-9,fluorobenzene (Surr) :4-9,fluorobenzene (Surr) :ab Sample ID: MB 880-28826/5 Matrix: Solid	Re <0.00	esult)200)201	Qualifier U U U U U U U M B Qualifier	0.00200 0.00200 0.00200 0.00400 0.00200 0.00400 <u>Limits</u> 83 - 1+3		MDL	mg/Kg mg/Kg mg/Kg mg/Kg			Pr 06/2: 06/2: 06/2: 06/2: 06/2: 06/2: 37/06 37/06	repared 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 repared 2066 1i /31 2066 1i /31	Prep 1 Prep 06/30/22 06/30/22 06/30/22 06/30/22 06/30/22 06/30/22 06/30/22 370+366 370+366 ample ID: Prep 1	Type: To Batch: red 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 16/31 To/31 Method Type: To	Dil F
Matrix: Solid Analysis Batch: 28710 Analyte Benzene Joluene Athylbenzene A-Xylene & p-Xylene -Xylene & p-Xylene -Xylene (ylenes, Total Currogate -Bromofluorobenzene (Surr) :4-9,fluorobenzene (Surr) :4-9,fluorobenzene (Surr) -ab Sample ID: MB 880-28826/5 Matrix: Solid Analysis Batch: 28820	Re <0.00 <0.00 <0.00 <0.00 <0.00 <i>%Recon</i>	Psult 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 131 2C MB MB	Qualifier U U U U U U U M B Qualifier	0.00200 0.00200 0.00200 0.00400 0.00200 0.00400 <u>Limits</u> 83 - 1+3		MDL	mg/Kg mg/Kg mg/Kg mg/Kg			Pr 06/2: 06/2: 06/2: 06/2: 06/2: 77/6 37/6	repared 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 repared 2066 1i /31 2066 1i /31	Prep 1 Prep 06/30/22 06/30/22 06/30/22 06/30/22 06/30/22 06/30/22 06/30/22 370+366 370+366 ample ID: Prep 1	Type: To Batch: red 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 Part of the second	Dill F Dill F Dill F
Matrix: Solid Analysis Batch: 28710 Analyte Jenzene Joluene Analyte Analyte Analyte Analysis Batch: 28820 Analyte	Re <0.00 <0.00 <0.00 <0.00 <0.00 <i>%Recon</i>	Basult 12000<	Qualifier U U U U U U MB Qualifier	0.00200 0.00200 0.00200 0.00400 0.00200 0.00400 <u>Limits</u> 83 - 1+3 83 - 1+3			mg/Kg mg/Kg mg/Kg mg/Kg		_	Pr 06/2: 06/2: 06/2: 06/2: 06/2: 37/6 37/6	repared 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 2066 1 <i>i</i> /31 Client S	Prep 1 Prep 06/30/22 06/30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Type: To Batch: red 12:01 10/31 Method 10:01 10:02 10:02 10:02 10:02 10:02 10:02 10:02 10:02 10:02 10:02 10:0	Dill F Dill F Dill F
Matrix: Solid Analysis Batch: 28710 Analysis Batch: 28710 Analyte Jenzene Joluene Schurbenzene Arylene & p-Xylene Xylene & p-Xylene & p-Xylene Xylene & p-Xylene & p-Xylene Xylene & p-Xylene & p	Re <0.00	Basult 12000 12000 12000 12000 12000 12000 12000 12000 MB 12000 MB 12000 MB 12000	Qualifier U U U U U U MB Qualifier U	0.00200 0.00200 0.00400 0.00200 0.00400 0.00400 <u>Limits</u> 83 - 1+3 83 - 1+3 83 - 1+3			mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		_	Pr 06/2: 06/2: 06/2: 06/2: 06/2: 06/2: 7/0 37/6 37/6	repared 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 2066 1i /31 2066 1i /31 Client S	Prep 1 Prep 06/30/22 00/20 000	Type: To Batch: red 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 Peed Image: Top Batch: Peed 11:31	Dil F
Matrix: Solid Analysis Batch: 28710 Analysis Batch: 28710 Analyte Benzene Foluene Ethylbenzene Xylene & p-Xylene Xylene & p-Xylene & p-Xylene Xylene & p-Xylene & p-Xylene Xylene & p-Xylene &	Re <0.00	Assult 12000	Qualifier UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	0.00200 0.00200 0.00200 0.00400 0.00200 0.00400 <u>Limits</u> 83 - 1+3 83 - 1+3 83 - 1+3 83 - 1+3			mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		_	Pr 06/2: 06/2: 06/2: 06/2: 06/2: 77(6) 37(6) 37(6) 97(0) 07/0 07/0	repared 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 repared 2066 1i /31 2066 1i /31 Client S repared 1/22 10:06	Prep 1 Prep Analyz 06/30/22 07/03/66 0 0 0 0 0 0 0 0 0 0 0 0 0	Type: To Batch: red 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 16/31 Method Type: To Batch: red 11:31	Dill F Dill F Dill F
Matrix: Solid Analysis Batch: 28710 Analyte Benzene Foluene Ethylbenzene n-Xylene & p-Xylene O-Xylene Kylenes, Total	Re <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 %Recov 5-A Re <0.00 <0.00 <0.00	Assult 12000 12000 12000 12000 12000 12000 12000 12000 12000 12000 1311 2C00 MB ssult 12000 12000 12000 12000 12000 12000 12000	Qualifier U U U U U U U MB Qualifier U U U U	 0.00200 0.00200 0.00200 0.00400 0.00200 0.00400 Limits 83 - 1+3 83 - 1+3 83 - 1+3 0.00200 0.00200 0.00200			mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		_	Pr 06/2: 06/2: 06/2: 06/2: 06/2: 77/0 37/06 37/06 07/0 07/0 07/0	repared 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 repared 2066 1i /31 2066 1i /31 Client S repared 1/22 10:06	Prep 1 Prep 2 Prep 2 06/30/22 07/03/66 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Type: To Batch: red 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 16/31 Method Type: To Batch: ted 11:31 11:31	Dill F Dill F Dill F
Matrix: Solid Analysis Batch: 28710 Analyte Benzene Toluene Ethylbenzene n-Xylene & p-Xylene -Xylene & p-Xylene -Xylene & p-Xylene -Xylene, Total Surrogate A-Bromofluorobenzene (Surr) 1:4-9,fluorobenzene (Surr) Lab Sample ID: MB 880-28826/5 Matrix: Solid Analysis Batch: 28820 Analyte Benzene Toluene Ethylbenzene	Re <0.00	Basult 02000 02000 02000 02000 02000 04000 04000 04000 04000 04000 04000 04000 04000 04000 02000 02000 02000 02000 02000 02000 02000 02000	Qualifier U U U U U U U MB Qualifier U U U U U U U U U	0.00200 0.00200 0.00200 0.00200 0.00400 0.00200 0.00400 Limits 83 - 1+3 83 - 1+3 83 - 1+3 0.00200 0.00200 0.00200 0.00200 0.00200 0.00200 0.00200			mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		_	Pr 06/2: 06/2: 06/2: 06/2: 06/2: 7/0 3706 3706 3706 07/0 07/0 07/0 07/0 07/0 07/0	repared 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 9/22 15:01 repared 2066 1i /31 2066 1i /31 Client S repared 1/22 10:06 1/22 10:06	Prep 1 Prep 2 06/30/22 07/03/26 0 07/01/22 07/01/22 07/01/22 07/01/22 07/01/22	Type: To Batch: red 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 12:01 red 16/31 Toppe: Top Batch: reed 11:31 11:31 11:31 11:31	Dill F Dill F Dill F

Client: American Safety Services Inc. Project/Site: Contango-Karlsbad Corral SWD 2

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-28826/5-A Matrix: Solid

Analysis Batch: 28820

	MB	MB		
Surrogate	%Recovery	Qualifier	Limits	Prepared
4-Bromofluorobenzene (Surr)	28		83 - 1+3	38031066 13/37
1:4-9 ,fluorobenzene (Surr)	C7		83 - 1+3	38031066 13/37

Lab Sample ID: LCS 880-28826/1-A Matrix: Solid

Analysis Batch: 28820	
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Analysis Batch: 28820							Prep B	atch: 28826
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08384		mg/Kg		84	70 - 130	
Toluene	0.100	0.08230		mg/Kg		82	70 - 130	
Ethylbenzene	0.100	0.08557		mg/Kg		86	70 - 130	
m-Xylene & p-Xylene	0.200	0.1777		mg/Kg		89	70 - 130	
o-Xylene	0.100	0.08976		mg/Kg		90	70 - 130	
	LCS LCS							

	200	200	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	13i		83 - 1+3
1:4-9,fluorobenzene (Surr)	22		83 - 1+3

Analysis Batch: 28820

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09843		mg/Kg		98	70 - 130	16	35
Toluene	0.100	0.09557		mg/Kg		96	70 - 130	15	35
Ethylbenzene	0.100	0.1006		mg/Kg		101	70 - 130	16	35
m-Xylene & p-Xylene	0.200	0.2063		mg/Kg		103	70 - 130	15	35
o-Xylene	0.100	0.1039		mg/Kg		104	70 - 130	15	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		83 - 1+3
1:4-9,fluorobenzene (Surr)	13+		83 - 1+3

Lab Sample ID: 880-16308-33 MS Matrix: Solid

Analysis Batch: 28820

Analysis Batch: 28820									Prep E	atch: 28826
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.100	0.09687		mg/Kg		97	70 - 130	
Toluene	<0.00200	U	0.100	0.09264		mg/Kg		92	70 - 130	
Ethylbenzene	<0.00200	U	0.100	0.09431		mg/Kg		94	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1929		mg/Kg		96	70 - 130	
o-Xylene	<0.00200	U	0.100	0.09484		mg/Kg		95	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	138		83 - 1+3							
1:4-9 ,fluorobenzene (Surr)	131		83 - 1+3							

Eurofins Midland

Client Sample ID: Method Blank

Analyzed

38031066 11/+1

38031066 11/+1

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Augar Hole 10

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 28826

Prep Batch: 28826

Dil Fac

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Client: American Safety Services Inc. Project/Site: Contango-Karlsbad Corral SWD 2 Job ID: 880-16308-1 SDG: Eddy Co NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-16308-33 Matrix: Solid													ample ID: / Prep 1	Гуре: То	
Analysis Batch: 28820														Batch:	
Analysis Batch. 20020	Sample	Sam	nlo	Spike		MSD	Men						%Rec	Datch.	RF
Analyte	Result			Added		Result			Unit		D	%Rec	Limits	RPD	Lin
Benzene	<0.00200		imer	0.0992		0.1030	Qua	mer			<u> </u>	104	70 - 130	6	;
oluene	< 0.00200			0.0992		0.1030			mg/Kg mg/Kg			99	70 - 130 70 - 130	6	:
Ethylbenzene	< 0.00200			0.0992		0.1001			mg/Kg			101	70 - 130	6	
n-Xylene & p-Xylene				0.0992		0.2042						101	70 - 130	6	
-Xylene	<0.00401 <0.00200			0.198		0.2042			mg/Kg mg/Kg			103	70 - 130 70 - 130	7	
-Aylene	~0.00200	0		0.0992		0.1012			mg/rtg			102	70 - 150	1	
	MSD	MSE)												
urrogate	%Recovery	Qua	lifier	Limits											
-Bromofluorobenzene (Surr)	138			83 - 1+3											
:4-9 ,fluorobenzene (Surr)	136			83 - 1+3											
ethod: 8015B NM - Diese	el Range O	rgar	nics (DF	RO) (GC)											
ab Sample ID: MB 880-28431.	/ 1-A											Client S	ample ID:	Method	Blaı
Matrix: Solid													Prep 1	Гуре: То	otal/N
Analysis Batch: 28407													Prep	Batch:	284
		MB	MB												
nalyte			Qualifier		RL		MDL	Unit		D		repared	Analyz		Dil F
Gasoline Range Organics GRO)-C6-C10	<	<50.0	U		50.0			mg/Kg	1		06/2	7/22 09:45	06/27/22	21:40	
viesel Range Organics (Over :10-C28)	•	<50.0	U		50.0			mg/Kg	ļ		06/2	7/22 09:45	06/27/22	21:40	
II Range Organics (Over C28-C36)	~	<50.0			50.0			mg/Kg	1		06/2	7/22 09:45	06/27/22	21:40	
		MB	MB								_				
Surrogate	%Reco		Qualifier									repared	Analyz		Dil F
-h cloroot aone		116 16+		83 - 1 83 - 1								8066 32/4i 8066 32/4i	37068066 37068066		
-Terpcenyl		10+		03 - 1	1+3						3700	5000 32/4/	3700000	01/43	
ab Sample ID: LCS 880-2843	1/2-A									С	lient	Sample	ID: Lab Co	ontrol S	Samp
Matrix: Solid												- C		Гуре: То	
Analysis Batch: 28407														Batch:	
				Spike		LCS	LCS						%Rec		
nalyte				Added		Result	Qual	ifier	Unit		D	%Rec	Limits		
Gasoline Range Organics				1000		995.6			mg/Kg			100	70 - 130		
GRO)-C6-C10															
Diesel Range Organics (Over 210-C28)				1000		1157			mg/Kg			116	70 - 130		
	LCS	LCS													
urrogate	%Recovery			Limits											
-h cloroot aõne	113			83 - 1+3											
-Terpcenyl	132			83 - 1+3											
ab Sample ID: LCSD 880-284	31/3-A								CI	ient	Sam	ple ID: L	ab Contro	-	
Aatrix: Solid														Гуре: То	
Analysis Batch: 28407													Prep	Batch:	284
				Spike		LCSD	LCS	D					%Rec		R
				Added		Result	Qual	ifior	Unit		D	%Rec	Limits	RPD	Lir
Analyte Gasoline Range Organics				Audeu		Result	quu	mer	Unit			/0100			

Client: American Safety Services Inc. Project/Site: Contango-Karlsbad Corral SWD 2

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-28 Matrix: Solid	8431/3-A					Cli	ent Sar	nple ID:	Lab Contro Prep 1	l Sampl Type: To	
Analysis Batch: 28407										Batch:	
Analysis Daten. 20407			Spike	LCSD	LCSD				%Rec	Daten.	RP
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Diesel Range Organics (Over			1000	1144	Quaimer	mg/Kg		114	70 - 130	1	2
C10-C28)			1000	11++		iiig/itg		114	10 - 100		2
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-h cloroot æne	116		83 - 1+3	-							
o-Terpcenyl	116		83 - 1+3								
Lab Sample ID: 880-16308-10	0 MS							Client	Sample ID:	Augar I	Hole
Matrix: Solid									Prep 1	ype: To	tal/N
Analysis Batch: 28407									Prep	Batch:	2843
-	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics GRO)-C6-C10	<49.9	U	996	1050		mg/Kg		103	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	996	892.4		mg/Kg		88	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
I-h cloroot æne	2i		83 - 1+3	-							
p-Terpcenyl	œ		83 - 1+3								
Analysis Batch: 28407	-	Sample	Spike		MSD				%Rec	Batch:	R
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Lir
Gasoline Range Organics GRO)-C6-C10	<49.9	U	996	1084		mg/Kg		106	70 - 130	3	:
Diesel Range Organics (Over C10-C28)	<49.9	U	996	927.8		mg/Kg		91	70 - 130	4	
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-h cloroot æne	2C		83 - 1+3	-							
o-Terpcenyl	C2		83 - 1+3								
ethod: 300.0 - Anions, I	lon Chromat	ography									
								Client S	Sample ID:	Method	Blar
	40/1-A										
Lab Sample ID: MB 880-2844	40/1-A								Pren	Type: Se	oluh
Lab Sample ID: MB 880-2844 Matrix: Solid	40/1-A								Prep	Type: So	olub
Lab Sample ID: MB 880-2844 Matrix: Solid	40/1-A	МВ МВ							Prep	Type: So	olub
Lab Sample ID: MB 880-2844 Matrix: Solid Analysis Batch: 28778 Analyte	R	esult Qualifier		RL	MDL Unit		<u>D</u> _F	Prepared	Analyz	ed	
Lab Sample ID: MB 880-2844 Matrix: Solid Analysis Batch: 28778 Analyte	R			RL 5.00	MDL Unit mg/K	g	<u>D</u>	Prepared	-	ed	
Lab Sample ID: MB 880-2844 Matrix: Solid Analysis Batch: 28778 Analyte Chloride	R	esult Qualifier				g			Analyz	ed	Dil F
Lab Sample ID: MB 880-2844 Matrix: Solid Analysis Batch: 28778 Analyte Chloride Lab Sample ID: LCS 880-284	R	esult Qualifier				g			Analyz 07/02/22	ed	Dil F
Lab Sample ID: MB 880-2844 Matrix: Solid Analysis Batch: 28778 Analyte Chloride Lab Sample ID: LCS 880-284 Matrix: Solid	R	esult Qualifier				g			Analyz 07/02/22	ed 03:43	Dil Fa
Lab Sample ID: MB 880-2844 Matrix: Solid Analysis Batch: 28778 Analyte Chloride Lab Sample ID: LCS 880-284 Matrix: Solid Analysis Batch: 28778	R	esult Qualifier	Spike	5.00		g			Analyz 07/02/22	ed 03:43	Dil Fa

QC Sample Results

Client: American Safety Services Inc. Project/Site: Contango-Karlsbad Corral SWD 2 Job ID: 880-16308-1 SDG: Eddy Co NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-284 Matrix: Solid									Prop	ol Sampl Type: S	alubla
Analysis Batch: 28778									Fieb	Type. 5	oluble
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	274.7		mg/Kg		110	90 - 110	0	20
	3-G MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 28778											
	Sample	-	Spike		MS		_		%Rec		
Analyte Chloride		Qualifier	Added 248	450.9	Qualifier	Unit mg/Kg	D	%Rec 104	Limits 90 - 110		
	194		240	430.9		mg/rtg		104	90 - 110		
Lab Sample ID: 880-16305-A-3	3-H MSD					C	Client S	ample IC): Matrix Sp	pike Dup	olicate
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 28778											
	Sample	•	Spike	MSD					%Rec		RPD
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	194		248	450.4		mg/Kg		104	90 - 110	0	20
Lab Sample ID: MB 880-28447 Matrix: Solid	7/1 -A							Client S	ample ID: Prep	Method Type: S	
Analysis Batch: 28782										3 1	
-		MB MB									
Analyte		esult Qualifier	r	RL	MDL Unit		<u>D</u> P	repared	Analyz	zed	Dil Fac
-			r	RL 5.00	MDL Unit	9	<u>D</u> P	repared	Analyz 07/02/22		Dil Fac 1
Analyte Chloride	<	esult Qualifier	r			9		-	07/02/22	14:53	1
Analyte Chloride Lab Sample ID: LCS 880-2844	<	esult Qualifier	r]		-	07/02/22	14:53	1 ample
Analyte Chloride Lab Sample ID: LCS 880-2844 Matrix: Solid	<	esult Qualifier	r			9		-	07/02/22	14:53	1 ample
Analyte Chloride Lab Sample ID: LCS 880-2844	<	esult Qualifier	r Spike	5.00		9		-	07/02/22	14:53	1 ample
Analyte Chloride Lab Sample ID: LCS 880-2844 Matrix: Solid	<	esult Qualifier		5.00 LCS	mg/K	Unit		-	07/02/22 e ID: Lab Co Prep	14:53	1 ample
Analyte Chloride Lab Sample ID: LCS 880-2844 Matrix: Solid Analysis Batch: 28782	<	esult Qualifier	Spike	5.00 LCS	mg/Kg	-	Client	t Sample	07/02/22 e ID: Lab Co Prep %Rec	14:53	1 ample
Analyte Chloride Lab Sample ID: LCS 880-2844 Matrix: Solid Analysis Batch: 28782 Analyte Chloride	<	esult Qualifier	Spike Added	5.00 LCS Result	mg/Kg	Unit mg/Kg	Client	%Rec 109	07/02/22 D: Lab Co Prep %Rec Limits 90 - 110	14:53 ontrol S Type: S	1 ample oluble
Analyte Chloride Lab Sample ID: LCS 880-2844 Matrix: Solid Analysis Batch: 28782 Analyte	<	esult Qualifier	Spike Added	5.00 LCS Result	mg/Kg	Unit mg/Kg	Client	%Rec 109	07/02/22 e ID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro	14:53 ontrol S Type: S	ample oluble
Analyte Chloride Lab Sample ID: LCS 880-2844 Matrix: Solid Analysis Batch: 28782 Analyte Chloride Lab Sample ID: LCSD 880-284	<	esult Qualifier	Spike Added	5.00 LCS Result	mg/Kg	Unit mg/Kg	Client	%Rec 109	07/02/22 e ID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro	14:53 ontrol S Type: S	ample oluble
Analyte Chloride Lab Sample ID: LCS 880-2844 Matrix: Solid Analysis Batch: 28782 Analyte Chloride Lab Sample ID: LCSD 880-284 Matrix: Solid	<	esult Qualifier	Spike Added	5.00 LCS Result 272.8	mg/Kg	Unit mg/Kg	Client	%Rec 109	07/02/22 e ID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro	14:53 ontrol S Type: S	ample oluble
Analyte Chloride Lab Sample ID: LCS 880-2844 Matrix: Solid Analysis Batch: 28782 Analyte Chloride Lab Sample ID: LCSD 880-284 Matrix: Solid	<	esult Qualifier	Spike Added 250	5.00 LCS Result 272.8	LCS Qualifier	Unit mg/Kg	Client	%Rec 109	07/02/22 e ID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro Prep	14:53 ontrol S Type: S	1 ample oluble e Dup oluble
Analyte Chloride Lab Sample ID: LCS 880-2844 Matrix: Solid Analysis Batch: 28782 Analyte Chloride Lab Sample ID: LCSD 880-284 Matrix: Solid Analysis Batch: 28782	<	esult Qualifier	Spike Added 250 Spike	5.00 LCS Result 272.8	LCS Qualifier	Unit mg/Kg Cli	Client	%Rec 109	07/02/22 e ID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec	ontrol S Type: S	1 ample oluble e Dup oluble RPD
Analyte Chloride Lab Sample ID: LCS 880-2844 Matrix: Solid Analysis Batch: 28782 Analyte Chloride Lab Sample ID: LCSD 880-284 Matrix: Solid Analysis Batch: 28782 <u>Analyte</u> Chloride	447/3-A	esult Qualifier	Spike Added 250 Spike Added	5.00 LCS Result 272.8 LCSD Result	LCS Qualifier	Unit mg/Kg Cli	Client	**************************************	07/02/22 e ID: Lab Co Prep %Rec Limits 90 - 110 Lab Controc Prep %Rec Limits 90 - 110	14:53 ontrol S Type: S ol Sampl Type: S 	ample oluble e Dup oluble RPD Limit 20
Analyte Chloride Lab Sample ID: LCS 880-2844 Matrix: Solid Analysis Batch: 28782 Analyte Chloride Lab Sample ID: LCSD 880-284 Matrix: Solid Analysis Batch: 28782 Analyte Chloride Lab Sample ID: 880-16308-29	447/3-A	esult Qualifier	Spike Added 250 Spike Added	5.00 LCS Result 272.8 LCSD Result	LCS Qualifier	Unit mg/Kg Cli	Client	**************************************	07/02/22 a ID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID:	14:53 ontrol S Type: S ol Sampl Type: S <u>RPD</u> 0	1 ample oluble e Dup oluble RPD Limit 20 Hole 8
Analyte Chloride Lab Sample ID: LCS 880-2844 Matrix: Solid Analysis Batch: 28782 Analyte Chloride Lab Sample ID: LCSD 880-284 Matrix: Solid Analysis Batch: 28782 Analyte Chloride Lab Sample ID: 880-16308-29 Matrix: Solid	447/3-A	esult Qualifier	Spike Added 250 Spike Added	5.00 LCS Result 272.8 LCSD Result	LCS Qualifier	Unit mg/Kg Cli	Client	**************************************	07/02/22 a ID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID:	14:53 ontrol S Type: S ol Sampl Type: S 	1 ample oluble e Dup oluble RPD Limit 20 Hole 8
Analyte Chloride Lab Sample ID: LCS 880-2844 Matrix: Solid Analysis Batch: 28782 Analyte Chloride Lab Sample ID: LCSD 880-284 Matrix: Solid Analysis Batch: 28782 Analyte Chloride Lab Sample ID: 880-16308-29	447/3-A	25.00 U	Spike Added 250 Spike Added	5.00 LCS Result 272.8 LCSD Result 272.6	LCS Qualifier	Unit mg/Kg Cli	Client	**************************************	07/02/22 a ID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID:	14:53 ontrol S Type: S ol Sampl Type: S <u>RPD</u> 0	1 ample oluble e Dup oluble RPD Limit 20 Hole 8
Analyte Chloride Lab Sample ID: LCS 880-2844 Matrix: Solid Analysis Batch: 28782 Analyte Chloride Lab Sample ID: LCSD 880-284 Matrix: Solid Analysis Batch: 28782 Analyte Chloride Lab Sample ID: 880-16308-29 Matrix: Solid	447/3-A MS Sample	25.00 U	Spike Added 250 Spike Added 250	5.00 LCS Result 272.8 LCSD Result 272.6	LCS Qualifier LCSD Qualifier	Unit mg/Kg Cli	Client	**************************************	07/02/22 e ID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID: Prep	14:53 ontrol S Type: S ol Sampl Type: S <u>RPD</u> 0	1 ample oluble e Dup oluble RPD Limit 20 Hole 8
Analyte Chloride Lab Sample ID: LCS 880-2844 Matrix: Solid Analysis Batch: 28782 Analyte Chloride Lab Sample ID: LCSD 880-284 Matrix: Solid Analysis Batch: 28782 Analyte Chloride Lab Sample ID: 880-16308-29 Matrix: Solid Analysis Batch: 28782	447/3-A MS Sample	Sample	Spike Added 250 Spike Added 250 Spike	5.00 LCS Result 272.8 LCSD Result 272.6	LCS Qualifier Qualifier	Unit mg/Kg Clin Unit mg/Kg	ClientD ent SanD	%Rec 109 nple ID: 1 %Rec 109 Client 3	07/02/22 e ID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID: Prep %Rec	14:53 ontrol S Type: S ol Sampl Type: S <u>RPD</u> 0	1 ample oluble e Dup oluble RPD Limit 20 Hole 8
Analyte Chloride Lab Sample ID: LCS 880-2844 Matrix: Solid Analysis Batch: 28782 Analyte Chloride Lab Sample ID: LCSD 880-284 Matrix: Solid Analysis Batch: 28782 Analyte Chloride Lab Sample ID: 880-16308-29 Matrix: Solid Analysis Batch: 28782 Analyte Chloride	MS Sample Result 12.1	Sample	Spike Added 250 Spike Added 250 Spike Added	5.00 LCS Result 272.8 LCSD Result 272.6 MS Result	LCS Qualifier Qualifier	Unit mg/Kg Clin Unit Unit	ClientD ent SanD	%Rec 109 nple ID: 1 %Rec 109 Client : %Rec 106	07/02/22 e ID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID: Prep %Rec Limits 90 - 110	14:53 ontrol S Type: S ol Sampl Type: S <u>RPD</u> 0 : Augar I Type: S	1 ample oluble e Dup oluble RPD Limit 20 Hole 8 oluble
Analyte Chloride Lab Sample ID: LCS 880-2844 Matrix: Solid Analysis Batch: 28782 Analyte Chloride Lab Sample ID: LCSD 880-284 Matrix: Solid Analysis Batch: 28782 Analyte Chloride Lab Sample ID: 880-16308-29 Matrix: Solid Analysis Batch: 28782 Analyte Chloride Lab Sample ID: 880-16308-29	MS Sample Result 12.1	Sample	Spike Added 250 Spike Added 250 Spike Added	5.00 LCS Result 272.8 LCSD Result 272.6 MS Result	LCS Qualifier Qualifier	Unit mg/Kg Clin Unit Unit	ClientD ent SanD	%Rec 109 nple ID: 1 %Rec 109 Client : %Rec 106	07/02/22 a ID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID: 90 - 110 Sample ID:	14:53 ontrol S Type: S ol Sampl Type: S <u>RPD</u> 0 Augar 1 Type: S	1 ample oluble e Dup oluble RPD Limit 20 Hole 8 oluble
Analyte Chloride Lab Sample ID: LCS 880-2844 Matrix: Solid Analysis Batch: 28782 Analyte Chloride Lab Sample ID: LCSD 880-284 Matrix: Solid Analysis Batch: 28782 Analyte Chloride Lab Sample ID: 880-16308-29 Matrix: Solid Analysis Batch: 28782 Analyte Chloride Lab Sample ID: 880-16308-29 Matrix: Solid Analyte Chloride	MS Sample Result 12.1	Sample	Spike Added 250 Spike Added 250 Spike Added	5.00 LCS Result 272.8 LCSD Result 272.6 MS Result	LCS Qualifier Qualifier	Unit mg/Kg Clin Unit Unit	ClientD ent SanD	%Rec 109 nple ID: 1 %Rec 109 Client : %Rec 106	07/02/22 a ID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID: 90 - 110 Sample ID:	14:53 ontrol S Type: S ol Sampl Type: S <u>RPD</u> 0 : Augar I Type: S	1 ample oluble e Dup oluble RPD Limit 20 Hole 8 oluble
Analyte Chloride Lab Sample ID: LCS 880-2844 Matrix: Solid Analysis Batch: 28782 Analyte Chloride Lab Sample ID: LCSD 880-284 Matrix: Solid Analysis Batch: 28782 Analyte Chloride Lab Sample ID: 880-16308-29 Matrix: Solid Analysis Batch: 28782 Analyte Chloride Lab Sample ID: 880-16308-29	MS Sample Result 12.1 MSD	Sample Qualifier	Spike Added 250 Spike Added 250 Spike Added 249	5.00 LCS Result 272.8 LCSD Result 272.6 MS Result 275.5	LCS Qualifier Qualifier	Unit mg/Kg Clin Unit Unit	ClientD ent SanD	%Rec 109 nple ID: 1 %Rec 109 Client : %Rec 106	07/02/22 e ID: Lab Correst %Rec Limits 90 - 110 Lab Controc %Rec Limits 90 - 110 Sample ID: %Rec Limits 90 - 110 Sample ID: %Rec Limits 90 - 110 Sample ID: Prep %Rec Limits 90 - 110 Sample ID: Prep	14:53 ontrol S Type: S ol Sampl Type: S <u>RPD</u> 0 Augar 1 Type: S	1 ample oluble e Dup oluble RPD Limit 20 Hole 8 oluble
Analyte Chloride Lab Sample ID: LCS 880-2844 Matrix: Solid Analysis Batch: 28782 Analyte Chloride Lab Sample ID: LCSD 880-284 Matrix: Solid Analysis Batch: 28782 Analyte Chloride Lab Sample ID: 880-16308-29 Matrix: Solid Analysis Batch: 28782 Analyte Chloride Lab Sample ID: 880-16308-29 Matrix: Solid Analyte Chloride	A7/2-A 447/3-A MS <u>Sample</u> <u>Result</u> 12.1 MSD Sample	Sample	Spike Added 250 Spike Added 250 Spike Added	5.00 LCS Result 272.8 LCSD Result 272.6 MS Result 275.5	LCS Qualifier MS Qualifier	Unit mg/Kg Clin Unit Unit	ClientD ent SanD	%Rec 109 nple ID: 1 %Rec 109 Client : %Rec 106	07/02/22 a ID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID: 90 - 110 Sample ID:	14:53 ontrol S Type: S ol Sampl Type: S <u>RPD</u> 0 Augar 1 Type: S	1 ample oluble e Dup oluble RPD Limit 20 Hole 8 oluble

QC Sample Results

Client: American Safety Services Inc. Project/Site: Contango-Karlsbad Corral SWD 2 Job ID: 880-16308-1 SDG: Eddy Co NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-16308-39 MS									Client S	Sample ID: /	Augar H	00 13
Matrix: Solid									Chefit 3	-	чugar п Туре: S	
Analysis Batch: 28782										Fieh	Type. S	olubi
Analysis Datch. 20702	Sample	Samp	e	Spike	MS	MS				%Rec		
Analyte		Qualif		Added	Result		Unit	D	%Rec	Limits		
Chloride	7.22			248	276.3		mg/Kg		109	90 - 110		
-							0 0					
Lab Sample ID: 880-16308-39 MSD									Client S	Sample ID: /	-	
Matrix: Solid										Prep	Type: S	oluble
Analysis Batch: 28782												
	Sample	-		Spike		MSD				%Rec		RPI
Analyte		Qualif	ier	Added	Result	Qualifier	Unit	D		Limits		Lim
Chloride	7.22			248	276.0		mg/Kg		109	90 - 110	0	2
Lab Sample ID: MB 880-28446/1-A									Client S	Sample ID:	Method	Blan
Matrix: Solid										-	Type: S	
Analysis Batch: 28860											1	
-		MB I	ИB									
Analyte	R	esult (Qualifier		RL	MDL Unit		D	Prepared	Analyz	ed	Dil Fa
Chloride	<	<5.00 l	J		5.00	mg/K	g			07/02/22	15:03	~
_												
Lab Sample ID: LCS 880-28446/2-A								Clier	nt Sample	e ID: Lab Co		
Matrix: Solid										Prep	Type: S	olubl
Analysis Batch: 28860				Spike	1.00	LCS				%Rec		
Analyte				Spike Added		Qualifier	Unit	D	%Rec	Limits		
Analyte					Result	Quaimer	Unit	U	70Rec	LIIIIIIS		
Lab Sample ID: LCSD 880-28446/3-	A			250	256.5		mg/Kg Cli	ent Sa	103 mple ID:	90 - 110 Lab Contro Prep	I Sampl Type: S	
Chloride Lab Sample ID: LCSD 880-28446/3- Matrix: Solid Analysis Batch: 28860	A			250				ent Sa		Lab Contro Prep	-	oluble
Lab Sample ID: LCSD 880-28446/3 Matrix: Solid Analysis Batch: 28860	A			250 Spike	LCSD	LCSD	Cli		mple ID:	Lab Contro Prep %Rec	Type: S	oluble RPE
Lab Sample ID: LCSD 880-28446/3- Matrix: Solid Analysis Batch: 28860 Analyte	A			250	LCSD	LCSD Qualifier	Cli Unit	ent Sa	mple ID:	Lab Contro Prep	-	oluble RPI Limi
Lab Sample ID: LCSD 880-28446/3- Matrix: Solid	A			250 Spike Added	LCSD Result		Cli		mple ID: %Rec	Lab Contro Prep %Rec Limits	Type: S	oluble RPE Limi
Lab Sample ID: LCSD 880-28446/3- Matrix: Solid Analysis Batch: 28860	A			250 Spike Added	LCSD Result		Cli Unit		%Rec 103	Lab Contro Prep %Rec Limits	Type: S	Oluble RPI Limi
Lab Sample ID: LCSD 880-28446/3- Matrix: Solid Analysis Batch: 28860 Analyte Chloride Lab Sample ID: 880-16308-9 MS Matrix: Solid	•A			250 Spike Added	LCSD Result		Cli Unit		%Rec 103	Lab Contro Prep %Rec Limits 90 - 110 Sample ID:	Type: S	oluble RPI Limi 20 Hole 1
Lab Sample ID: LCSD 880-28446/3- Matrix: Solid Analysis Batch: 28860 Analyte Chloride Lab Sample ID: 880-16308-9 MS				250 Spike Added 250	LCSD Result 256.5	Qualifier	Cli Unit		%Rec 103	Lab Contro Prep %Rec Limits 90 - 110 Sample ID: Prep	Type: S RPD 0 Augar	oluble RPI Limi 20 Hole 1
Lab Sample ID: LCSD 880-28446/3- Matrix: Solid Analysis Batch: 28860 Analyte Chloride Lab Sample ID: 880-16308-9 MS Matrix: Solid Analysis Batch: 28860	Sample	-		250 Spike Added 250 Spike	LCSD Result 256.5 MS	Qualifier	Cli Unit mg/Kg	<u>D</u>	mple ID: %Rec 103 Client	Lab Contro Prep %Rec Limits 90 - 110 Sample ID: Prep %Rec	Type: S RPD 0 Augar	oluble RPI Limi 20 Hole 1
Lab Sample ID: LCSD 880-28446/3- Matrix: Solid Analysis Batch: 28860 Analyte Chloride Lab Sample ID: 880-16308-9 MS Matrix: Solid Analysis Batch: 28860 Analyte	Sample Result	Qualif		250 Spike Added 250 Spike Added	LCSD Result 256.5 MS Result	Qualifier MS Qualifier	Cli Unit mg/Kg Unit		mple ID: %Rec 103 Client %Rec	Lab Contro Prep %Rec Limits 90 - 110 Sample ID: Prep %Rec Limits	Type: S RPD 0 Augar	oluble RPE Limi 20 Hole 1
Lab Sample ID: LCSD 880-28446/3- Matrix: Solid Analysis Batch: 28860 Analyte Chloride Lab Sample ID: 880-16308-9 MS Matrix: Solid Analysis Batch: 28860	Sample	Qualif		250 Spike Added 250 Spike	LCSD Result 256.5 MS	Qualifier MS Qualifier	Cli Unit mg/Kg	<u>D</u>	mple ID: %Rec 103 Client	Lab Contro Prep %Rec Limits 90 - 110 Sample ID: Prep %Rec	Type: S RPD 0 Augar	oluble RPE Limi 20 Hole 1
Lab Sample ID: LCSD 880-28446/3- Matrix: Solid Analysis Batch: 28860 Analyte Chloride Lab Sample ID: 880-16308-9 MS Matrix: Solid Analysis Batch: 28860 Analyte Chloride	Sample Result	Qualif		250 Spike Added 250 Spike Added	LCSD Result 256.5 MS Result	Qualifier MS Qualifier	Cli Unit mg/Kg Unit	<u>D</u>	%Rec 103 Client %Rec 121	Lab Contro Prep %Rec Limits 90 - 110 Sample ID: Prep %Rec Limits 90 - 110	Type: S <u>RPD</u> 0 Augar Type: S	olubic RPI Limi 20 Hole ^ olubic
Lab Sample ID: LCSD 880-28446/3- Matrix: Solid Analysis Batch: 28860 Analyte Chloride Lab Sample ID: 880-16308-9 MS Matrix: Solid Analysis Batch: 28860 Analyte	Sample Result	Qualif		250 Spike Added 250 Spike Added	LCSD Result 256.5 MS Result	Qualifier MS Qualifier	Cli Unit mg/Kg Unit	<u>D</u>	%Rec 103 Client %Rec 121	Lab Contro Prep %Rec Limits 90 - 110 Sample ID: Prep %Rec Limits 90 - 110 Sample ID:	Type: S RPD 0 Augar Type: S Augar	Olubio RPI Limi 20 Hole ^ olubio
Lab Sample ID: LCSD 880-28446/3- Matrix: Solid Analysis Batch: 28860 Analyte Chloride Lab Sample ID: 880-16308-9 MS Matrix: Solid Analysis Batch: 28860 Analyte Chloride Lab Sample ID: 880-16308-9 MSD	Sample Result	Qualif		250 Spike Added 250 Spike Added	LCSD Result 256.5 MS Result	Qualifier MS Qualifier	Cli Unit mg/Kg Unit	<u>D</u>	%Rec 103 Client %Rec 121	Lab Contro Prep %Rec Limits 90 - 110 Sample ID: Prep %Rec Limits 90 - 110 Sample ID:	Type: S <u>RPD</u> 0 Augar Type: S	Oluble RPI Limi 20 Hole 1 oluble
Lab Sample ID: LCSD 880-28446/3- Matrix: Solid Analysis Batch: 28860 Analyte Chloride Lab Sample ID: 880-16308-9 MS Matrix: Solid Analysis Batch: 28860 Analyte Chloride Lab Sample ID: 880-16308-9 MSD Matrix: Solid	Sample Result	Qualif F1	ier	250 Spike Added 250 Spike Added	LCSD Result 256.5 MS Result 3467	Qualifier MS Qualifier	Cli Unit mg/Kg Unit	<u>D</u>	%Rec 103 Client %Rec 121	Lab Contro Prep %Rec Limits 90 - 110 Sample ID: Prep %Rec Limits 90 - 110 Sample ID:	Type: S RPD 0 Augar Type: S Augar	Oluble RPI Limi 20 Hole 1 oluble
Lab Sample ID: LCSD 880-28446/3- Matrix: Solid Analysis Batch: 28860 Analyte Chloride Lab Sample ID: 880-16308-9 MS Matrix: Solid Analysis Batch: 28860 Analyte Chloride Lab Sample ID: 880-16308-9 MSD Matrix: Solid Analysis Batch: 28860 Analyte	Sample Result 1950 Sample Result	Qualif F1 Sampl Qualif	ier	250 Spike Added 250 Spike Added 1250	LCSD Result 256.5 MS Result 3467 MSD Result	Qualifier MS Qualifier F1 MSD Qualifier	Cli Unit mg/Kg Unit Unit	<u>D</u>	mple ID: %Rec 103 Client %Rec 121 Client	Lab Contro Prep %Rec Limits 90 - 110 Sample ID: Prep %Rec Limits 90 - 110 Sample ID: Prep %Rec Limits	Type: S RPD 0 Augar Type: S Augar	Hole 1 Oluble Hole 1 Oluble RPE
Lab Sample ID: LCSD 880-28446/3- Matrix: Solid Analysis Batch: 28860 Analyte Chloride Lab Sample ID: 880-16308-9 MS Matrix: Solid Analysis Batch: 28860 Analyte Chloride Lab Sample ID: 880-16308-9 MSD Matrix: Solid	Sample Result 1950 Sample	Qualif F1 Sampl Qualif	ier	250 Spike Added 250 Spike Added 1250	LCSD Result 256.5 MS Result 3467 MSD	Qualifier MS Qualifier F1 MSD Qualifier	Cli mg/Kg Unit mg/Kg	D	mple ID: %Rec 103 Client %Rec 121 Client	Lab Contro Prep %Rec Limits 90 - 110 Sample ID: Prep %Rec Limits 90 - 110 Sample ID: Prep %Rec	Type: S RPD 0 Augar Type: S Augar Type: S	Hole 1 Oluble Hole 1 Oluble RPE
Lab Sample ID: LCSD 880-28446/3- Matrix: Solid Analysis Batch: 28860 Analyte Chloride Lab Sample ID: 880-16308-9 MS Matrix: Solid Analysis Batch: 28860 Analyte Chloride Lab Sample ID: 880-16308-9 MSD Matrix: Solid Analysis Batch: 28860 Analysis Batch: 28860	Sample Result 1950 Sample Result	Qualif F1 Sampl Qualif	ier	250 Spike Added 250 Spike Added 1250	LCSD Result 256.5 MS Result 3467 MSD Result	Qualifier MS Qualifier F1 MSD Qualifier	Cli Unit mg/Kg Unit Unit	D	mple ID: %Rec 103 Client %Rec 121 Client %Rec 122	Lab Contro Prep %Rec Limits 90 - 110 Sample ID: Prep %Rec Limits 90 - 110 Sample ID: Prep %Rec Limits 90 - 110	Type: S RPD 0 Augar Type: S Augar Type: S RPD 0 0	Hole 1 Oluble Hole 1 Oluble RPI Limi 20
Lab Sample ID: LCSD 880-28446/3- Matrix: Solid Analysis Batch: 28860 Analyte Chloride Lab Sample ID: 880-16308-9 MS Matrix: Solid Analysis Batch: 28860 Analyte Chloride Lab Sample ID: 880-16308-9 MSD Matrix: Solid Analysis Batch: 28860 Analyte Chloride Lab Sample ID: 880-16308-19 MS	Sample Result 1950 Sample Result	Qualif F1 Sampl Qualif	ier	250 Spike Added 250 Spike Added 1250	LCSD Result 256.5 MS Result 3467 MSD Result	Qualifier MS Qualifier F1 MSD Qualifier	Cli Unit mg/Kg Unit Unit	D	mple ID: %Rec 103 Client %Rec 121 Client %Rec 122	Lab Contro Prep %Rec Limits 90 - 110 Sample ID: Prep %Rec Limits 90 - 110 Sample ID: Prep %Rec Limits 90 - 110 Sample ID:	Type: S RPD 0 Augar Type: S Augar Type: S RPD 0 Augar Comparing the second secon	Hole Coluble
Lab Sample ID: LCSD 880-28446/3- Matrix: Solid Analysis Batch: 28860 Analyte Chloride Lab Sample ID: 880-16308-9 MS Matrix: Solid Analysis Batch: 28860 Analyte Chloride Lab Sample ID: 880-16308-9 MSD Matrix: Solid Analysis Batch: 28860 Analyte Chloride Lab Sample ID: 880-16308-19 MS Matrix: Solid	Sample Result 1950 Sample Result	Qualif F1 Sampl Qualif	ier	250 Spike Added 250 Spike Added 1250	LCSD Result 256.5 MS Result 3467 MSD Result	Qualifier MS Qualifier F1 MSD Qualifier	Cli Unit mg/Kg Unit Unit	D	mple ID: %Rec 103 Client %Rec 121 Client %Rec 122	Lab Contro Prep %Rec Limits 90 - 110 Sample ID: Prep %Rec Limits 90 - 110 Sample ID: Prep %Rec Limits 90 - 110 Sample ID:	Type: S RPD 0 Augar Type: S Augar Type: S RPD 0 0	Hole 1 Oluble Hole 1 Oluble RPI Limi 20 Hole 3
Lab Sample ID: LCSD 880-28446/3- Matrix: Solid Analysis Batch: 28860 Analyte Chloride Lab Sample ID: 880-16308-9 MS Matrix: Solid Analysis Batch: 28860 Analyte Chloride Lab Sample ID: 880-16308-9 MSD Matrix: Solid Analysis Batch: 28860 Analysis Batch: 28860 Analyte Chloride Lab Sample ID: 880-16308-19 MS	Sample Result 1950 Sample Result	Qualif F1 Sampl Qualif F1	ier e ier	250 Spike Added 250 Spike Added 1250	LCSD Result 256.5 MS Result 3467 MSD Result	Qualifier MS Qualifier F1 MSD Qualifier	Cli Unit mg/Kg Unit Unit	D	mple ID: %Rec 103 Client %Rec 121 Client %Rec 122	Lab Contro Prep %Rec Limits 90 - 110 Sample ID: Prep %Rec Limits 90 - 110 Sample ID: Prep %Rec Limits 90 - 110 Sample ID:	Type: S RPD 0 Augar Type: S Augar Type: S RPD 0 Augar Comparing the second secon	Hole 1 Oluble RPD Limit 20 Hole 1 Oluble RPD Limit 20 Hole 3
Lab Sample ID: LCSD 880-28446/3- Matrix: Solid Analysis Batch: 28860 Analyte Chloride Lab Sample ID: 880-16308-9 MS Matrix: Solid Analysis Batch: 28860 Analyte Chloride Lab Sample ID: 880-16308-9 MSD Matrix: Solid Analysis Batch: 28860 Analyte Chloride Lab Sample ID: 880-16308-19 MS Matrix: Solid	Sample Result 1950 Sample Result 1950 Sample	Qualif F1 Sampl Qualif F1	ier e ier	250 Spike Added 250 Spike Added 1250	LCSD Result 256.5 MS Result 3467 MSD Result 3479	Qualifier MS Qualifier F1 MSD Qualifier F1	Cli Unit mg/Kg Unit Unit	D	mple ID: %Rec 103 Client %Rec 121 Client %Rec 122 Client	Lab Contro Prep %Rec Limits 90 - 110 Sample ID: Prep %Rec Limits 90 - 110 Sample ID: Prep %Rec Limits 90 - 110 Sample ID: Prep	Type: S RPD 0 Augar Type: S Augar Type: S RPD 0 Augar Comparing the second secon	Hole 1 Oluble RPC Limit 20 Hole 1 Oluble RPC Limit 20 Hole 3

Client: American Safety Services Inc. Project/Site: Contango-Karlsbad Corral SWD 2 Job ID: 880-16308-1 SDG: Eddy Co NM

Method: 300.0 - Anions, Ion Chromatography

nalysis Batch: 28860	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
nalyte		Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
hloride	697		248	940.5		mg/Kg		98	90 - 110	0	20

Client: American Safety Services Inc. Project/Site: Contango-Karlsbad Corral SWD 2 Job ID: 880-16308-1 SDG: Eddy Co NM

GC VOA

Prep Batch: 28494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bat
880-16308-1	Augar Hole 1	Total/NA	Solid	5035	
380-16308-10	Augar Hole 2	Total/NA	Solid	5035	
380-16308-11	Augar Hole 2	Total/NA	Solid	5035	
380-16308-19	Augar Hole 3	Total/NA	Solid	5035	
380-16308-21	Augar Hole 4	Total/NA	Solid	5035	
380-16308-23	Augar Hole 5	Total/NA	Solid	5035	
380-16308-25	Augar Hole 6	Total/NA	Solid	5035	
380-16308-27	Augar Hole 7	Total/NA	Solid	5035	
380-16308-29	Augar Hole 8	Total/NA	Solid	5035	
880-16308-31	Augar Hole 9	Total/NA	Solid	5035	
/IB 880-28494/5-A	Method Blank	Total/NA	Solid	5035	
CS 880-28494/1-A	Lab Control Sample	Total/NA	Solid	5035	
CSD 880-28494/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
80-16308-1 MS	Augar Hole 1	Total/NA	Solid	5035	
80-16308-1 MSD	Augar Hole 1	Total/NA	Solid	5035	
/IB 880-28678/5-A	Client Sample ID Method Blank	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Ba
/IB 880-28678/5-A	Method Blank				Prep Ba
/IB 880-28678/5-A nalysis Batch: 28710	Method Blank Client Sample ID	Total/NA Prep Type	Solid	5035 Method	Prep Ba
/IB 880-28678/5-A nalysis Batch: 28710 .ab Sample ID	Method Blank	Total/NA	Solid	5035	Prep Ba
/IB 880-28678/5-A nalysis Batch: 28710 .ab Sample ID .80-16308-1	Method Blank Client Sample ID	Total/NA Prep Type	Solid	5035 Method	Prep Ba
/IB 880-28678/5-A nalysis Batch: 28710 .ab Sample ID .80-16308-1 .80-16308-10	Method Blank Client Sample ID Augar Hole 1	Total/NA Prep Type Total/NA	Solid Matrix Solid	5035 Method 8021B	Prep Ba
/IB 880-28678/5-A nalysis Batch: 28710 .ab Sample ID .80-16308-1 .80-16308-10 .880-16308-11	Method Blank Client Sample ID Augar Hole 1 Augar Hole 2	Total/NA Prep Type Total/NA Total/NA	Solid Matrix Solid Solid	5035 Method 8021B 8021B	Prep Ba 28 28 28
IB 880-28678/5-A alysis Batch: 28710 ab Sample ID 80-16308-1 80-16308-10 80-16308-11 80-16308-19	Method Blank Client Sample ID Augar Hole 1 Augar Hole 2 Augar Hole 2	Total/NA Prep Type Total/NA Total/NA Total/NA	Solid Matrix Solid Solid Solid	5035 Method 8021B 8021B 8021B	Prep Ba 28 28 28 28
AB 880-28678/5-A alysis Batch: 28710 ab Sample ID 180-16308-1 180-16308-10 180-16308-11 180-16308-19 180-16308-21	Method Blank Client Sample ID Augar Hole 1 Augar Hole 2 Augar Hole 3	Total/NA Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Matrix Solid Solid Solid Solid	5035 Method 8021B 8021B 8021B 8021B 8021B	Prep Ba 28 28 28 28 28 28 28
AB 880-28678/5-A halysis Batch: 28710 ab Sample ID 180-16308-1 180-16308-10 180-16308-11 180-16308-21 180-16308-23	Method Blank Client Sample ID Augar Hole 1 Augar Hole 2 Augar Hole 2 Augar Hole 3 Augar Hole 4	Total/NA Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Matrix Solid Solid Solid Solid Solid Solid	5035 Method 8021B 8021B 8021B 8021B 8021B 8021B	Prep Ba 28 28 28 28 28 28 28 28
MB 880-28678/5-A nalysis Batch: 28710 ab Sample ID 880-16308-1 880-16308-10 880-16308-11 880-16308-19 880-16308-21 880-16308-23 880-16308-25	Method Blank Client Sample ID Augar Hole 1 Augar Hole 2 Augar Hole 2 Augar Hole 3 Augar Hole 4 Augar Hole 5	Total/NA Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Matrix Solid Solid Solid Solid Solid Solid Solid	5035 Method 8021B 8021B 8021B 8021B 8021B 8021B 8021B	Prep Ba 28 28 28 28 28 28 28 28 28 28 28 28
MB 880-28678/5-A nalysis Batch: 28710 ab Sample ID 880-16308-1 880-16308-10 880-16308-11 880-16308-21 880-16308-23 880-16308-25 880-16308-27	Client Sample ID Augar Hole 1 Augar Hole 2 Augar Hole 3 Augar Hole 4 Augar Hole 5 Augar Hole 6	Total/NA Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Matrix Solid Solid Solid Solid Solid Solid Solid Solid	5035 Method 8021B 8021B 8021B 8021B 8021B 8021B 8021B 8021B	Prep Ba 28 28 28 28 28 28 28 28 28 28 28 28 28
AB 880-28678/5-A halysis Batch: 28710 ab Sample ID 880-16308-1 880-16308-10 880-16308-11 880-16308-21 880-16308-25 880-16308-27 880-16308-29	Method Blank Client Sample ID Augar Hole 1 Augar Hole 2 Augar Hole 3 Augar Hole 4 Augar Hole 5 Augar Hole 7	Total/NA Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid	5035 Method 8021B 8021B 8021B 8021B 8021B 8021B 8021B 8021B 8021B	Prep Ba 28 28 28 28 28 28 28 28 28 28 28 28 28
AB 880-28678/5-A alysis Batch: 28710 ab Sample ID 80-16308-1 80-16308-10 80-16308-11 80-16308-21 80-16308-21 80-16308-23 80-16308-25 80-16308-27 80-16308-29 80-16308-31	Client Sample ID Augar Hole 1 Augar Hole 2 Augar Hole 3 Augar Hole 4 Augar Hole 5 Augar Hole 7 Augar Hole 8	Total/NA Prep Type Total/NA	Solid Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid	5035 Method 8021B 8021B 8021B 8021B 8021B 8021B 8021B 8021B 8021B 8021B 8021B	Prep Ba 28 28 28 28 28 28 28 28 28 28 28 28 28
AB 880-28678/5-A halysis Batch: 28710 ab Sample ID 180-16308-1 180-16308-10 180-16308-10 180-16308-11 180-16308-21 180-16308-23 180-16308-25 180-16308-25 180-16308-27 180-16308-29 180-16308-31 AB 880-28494/5-A	Method Blank Client Sample ID Augar Hole 1 Augar Hole 2 Augar Hole 3 Augar Hole 4 Augar Hole 5 Augar Hole 6 Augar Hole 8 Augar Hole 9	Total/NA Prep Type Total/NA	Solid Matrix Solid	5035 Method 8021B	Prep Ba 28 28 28 28 28 28 28 28 28 28 28 28 28
MB 880-28678/5-A nalysis Batch: 28710 .ab Sample ID 880-16308-1 880-16308-10 880-16308-10 880-16308-21 880-16308-21 880-16308-23 880-16308-25 880-16308-25 880-16308-27 880-16308-27 880-16308-31 MB 880-28494/5-A MB 880-28678/5-A	Method Blank Client Sample ID Augar Hole 1 Augar Hole 2 Augar Hole 3 Augar Hole 4 Augar Hole 5 Augar Hole 6 Augar Hole 8 Augar Hole 9 Method Blank	Total/NA Prep Type Total/NA	Solid Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid	S035 Method 8021B 8021B	Prep Ba Prep Ba 28 28 28 28 28 28 28 28 28 28
AB 880-28678/5-A halysis Batch: 28710 ab Sample ID 800-16308-1 800-16308-10 800-16308-10 800-16308-21 800-16308-21 800-16308-23 800-16308-23 800-16308-25 800-16308-27 800-16308-27 800-16308-29 800-16308-31 AB 880-28494/5-A AB 880-28678/5-A CS 880-28494/1-A	Method Blank Client Sample ID Augar Hole 1 Augar Hole 2 Augar Hole 2 Augar Hole 3 Augar Hole 4 Augar Hole 5 Augar Hole 6 Augar Hole 7 Augar Hole 8 Augar Hole 9 Method Blank Method Blank	Total/NA Prep Type Total/NA Total/NA	Solid Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid	5035 Method 8021B 8021B 8021B 8021B 8021B 8021B 8021B 8021B 8021B 8021B 8021B 8021B 8021B 8021B 8021B	Prep Ba 28 28 28 28 28 28 28 28 28 28 28 28 28
Lab Sample ID //B 880-28678/5-A nalysis Batch: 28710 280-16308-1 380-16308-10 380-16308-11 380-16308-19 380-16308-21 380-16308-21 380-16308-23 380-16308-25 380-16308-27 380-16308-31 //B 880-28494/5-A //B 880-28494/5-A //B 880-28494/1-A .CS 880-28494/1-A .CSD 880-28494/2-A 380-16308-1 MS	Method Blank Client Sample ID Augar Hole 1 Augar Hole 2 Augar Hole 2 Augar Hole 3 Augar Hole 4 Augar Hole 5 Augar Hole 6 Augar Hole 8 Augar Hole 9 Method Blank Lab Control Sample	Total/NA Prep Type Total/NA Total/NA	Solid Matrix Solid	5035 Method 8021B 8021B 8021B 8021B 8021B 8021B 8021B 8021B 8021B 8021B 8021B 8021B 8021B 8021B 8021B 8021B 8021B	Prep Ba 28 28 28 28 28 28 28 28 28 28 28 28 28

Analysis Batch: 28820

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-16308-33	Augar Hole 10	Total/NA	Solid	8021B	28826
880-16308-35	Augar Hole 11	Total/NA	Solid	8021B	28826
880-16308-37	Augar Hole 12	Total/NA	Solid	8021B	28826
880-16308-39	Augar Hole 13	Total/NA	Solid	8021B	28826
880-16308-41	Augar Hole 14	Total/NA	Solid	8021B	28826
880-16308-43	Augar Hole 15	Total/NA	Solid	8021B	28826
880-16308-44	Augar Hole 16	Total/NA	Solid	8021B	28826
880-16308-45	Augar Hole 17	Total/NA	Solid	8021B	28826
MB 880-28826/5-A	Method Blank	Total/NA	Solid	8021B	28826
LCS 880-28826/1-A	Lab Control Sample	Total/NA	Solid	8021B	28826

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Client: American Safety Services Inc. Project/Site: Contango-Karlsbad Corral SWD 2

GC VOA (Continued)

Analysis Batch: 28820 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method P	rep Batch
LCSD 880-28826/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	28826
880-16308-33 MS	Augar Hole 10	Total/NA	Solid	8021B	28826
880-16308-33 MSD	Augar Hole 10	Total/NA	Solid	8021B	28826

Prep Batch: 28826

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-16308-33	Augar Hole 10	Total/NA	Solid	5035	
880-16308-35	Augar Hole 11	Total/NA	Solid	5035	
880-16308-37	Augar Hole 12	Total/NA	Solid	5035	
880-16308-39	Augar Hole 13	Total/NA	Solid	5035	
880-16308-41	Augar Hole 14	Total/NA	Solid	5035	
880-16308-43	Augar Hole 15	Total/NA	Solid	5035	
880-16308-44	Augar Hole 16	Total/NA	Solid	5035	
880-16308-45	Augar Hole 17	Total/NA	Solid	5035	
MB 880-28826/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-28826/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-28826/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-16308-33 MS	Augar Hole 10	Total/NA	Solid	5035	
880-16308-33 MSD	Augar Hole 10	Total/NA	Solid	5035	

Analysis Batch: 28832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16308-1	Augar Hole 1	Total/NA	Solid	Total BTEX	
880-16308-10	Augar Hole 2	Total/NA	Solid	Total BTEX	
880-16308-11	Augar Hole 2	Total/NA	Solid	Total BTEX	
880-16308-19	Augar Hole 3	Total/NA	Solid	Total BTEX	
880-16308-21	Augar Hole 4	Total/NA	Solid	Total BTEX	
880-16308-23	Augar Hole 5	Total/NA	Solid	Total BTEX	
880-16308-25	Augar Hole 6	Total/NA	Solid	Total BTEX	
880-16308-27	Augar Hole 7	Total/NA	Solid	Total BTEX	
880-16308-29	Augar Hole 8	Total/NA	Solid	Total BTEX	
880-16308-31	Augar Hole 9	Total/NA	Solid	Total BTEX	
880-16308-33	Augar Hole 10	Total/NA	Solid	Total BTEX	
880-16308-35	Augar Hole 11	Total/NA	Solid	Total BTEX	
880-16308-37	Augar Hole 12	Total/NA	Solid	Total BTEX	
880-16308-39	Augar Hole 13	Total/NA	Solid	Total BTEX	
880-16308-41	Augar Hole 14	Total/NA	Solid	Total BTEX	
880-16308-43	Augar Hole 15	Total/NA	Solid	Total BTEX	
880-16308-44	Augar Hole 16	Total/NA	Solid	Total BTEX	
880-16308-45	Augar Hole 17	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 28407

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-16308-1	Augar Hole 1	Total/NA	Solid	8015B NM	28431
880-16308-10	Augar Hole 2	Total/NA	Solid	8015B NM	28431
880-16308-11	Augar Hole 2	Total/NA	Solid	8015B NM	28431
880-16308-19	Augar Hole 3	Total/NA	Solid	8015B NM	28431
880-16308-21	Augar Hole 4	Total/NA	Solid	8015B NM	28431
880-16308-23	Augar Hole 5	Total/NA	Solid	8015B NM	28431

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Job ID: 880-16308-1

SDG: Eddy Co NM

Client: American Safety Services Inc. Project/Site: Contango-Karlsbad Corral SWD 2

GC Semi VOA (Continued)

Analysis Batch: 28407 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16308-25	Augar Hole 6	Total/NA	Solid	8015B NM	28431
880-16308-27	Augar Hole 7	Total/NA	Solid	8015B NM	28431
880-16308-29	Augar Hole 8	Total/NA	Solid	8015B NM	28431
880-16308-31	Augar Hole 9	Total/NA	Solid	8015B NM	28431
880-16308-33	Augar Hole 10	Total/NA	Solid	8015B NM	28431
880-16308-35	Augar Hole 11	Total/NA	Solid	8015B NM	28431
880-16308-37	Augar Hole 12	Total/NA	Solid	8015B NM	28431
880-16308-39	Augar Hole 13	Total/NA	Solid	8015B NM	28431
880-16308-41	Augar Hole 14	Total/NA	Solid	8015B NM	28431
880-16308-43	Augar Hole 15	Total/NA	Solid	8015B NM	28431
880-16308-44	Augar Hole 16	Total/NA	Solid	8015B NM	28431
880-16308-45	Augar Hole 17	Total/NA	Solid	8015B NM	28431
MB 880-28431/1-A	Method Blank	Total/NA	Solid	8015B NM	28431
LCS 880-28431/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	28431
LCSD 880-28431/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	28431
880-16308-10 MS	Augar Hole 2	Total/NA	Solid	8015B NM	28431
880-16308-10 MSD	Augar Hole 2	Total/NA	Solid	8015B NM	28431

Prep Batch: 28431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16308-1	Augar Hole 1	Total/NA	Solid	8015NM Prep	
880-16308-10	Augar Hole 2	Total/NA	Solid	8015NM Prep	
880-16308-11	Augar Hole 2	Total/NA	Solid	8015NM Prep	
880-16308-19	Augar Hole 3	Total/NA	Solid	8015NM Prep	
880-16308-21	Augar Hole 4	Total/NA	Solid	8015NM Prep	
880-16308-23	Augar Hole 5	Total/NA	Solid	8015NM Prep	
880-16308-25	Augar Hole 6	Total/NA	Solid	8015NM Prep	
880-16308-27	Augar Hole 7	Total/NA	Solid	8015NM Prep	
880-16308-29	Augar Hole 8	Total/NA	Solid	8015NM Prep	
880-16308-31	Augar Hole 9	Total/NA	Solid	8015NM Prep	
880-16308-33	Augar Hole 10	Total/NA	Solid	8015NM Prep	
880-16308-35	Augar Hole 11	Total/NA	Solid	8015NM Prep	
880-16308-37	Augar Hole 12	Total/NA	Solid	8015NM Prep	
880-16308-39	Augar Hole 13	Total/NA	Solid	8015NM Prep	
880-16308-41	Augar Hole 14	Total/NA	Solid	8015NM Prep	
880-16308-43	Augar Hole 15	Total/NA	Solid	8015NM Prep	
880-16308-44	Augar Hole 16	Total/NA	Solid	8015NM Prep	
880-16308-45	Augar Hole 17	Total/NA	Solid	8015NM Prep	
MB 880-28431/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-28431/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-28431/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-16308-10 MS	Augar Hole 2	Total/NA	Solid	8015NM Prep	
880-16308-10 MSD	Augar Hole 2	Total/NA	Solid	8015NM Prep	

Analysis Batch: 28518

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-16308-1	Augar Hole 1	Total/NA	Solid	8015 NM	
880-16308-10	Augar Hole 2	Total/NA	Solid	8015 NM	
880-16308-11	Augar Hole 2	Total/NA	Solid	8015 NM	
880-16308-19	Augar Hole 3	Total/NA	Solid	8015 NM	
880-16308-21	Augar Hole 4	Total/NA	Solid	8015 NM	

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Job ID: 880-16308-1 SDG: Eddy Co NM

Client: American Safety Services Inc. Project/Site: Contango-Karlsbad Corral SWD 2

GC Semi VOA (Continued)

Analysis Batch: 28518 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16308-23	Augar Hole 5	Total/NA	Solid	8015 NM	
880-16308-25	Augar Hole 6	Total/NA	Solid	8015 NM	
880-16308-27	Augar Hole 7	Total/NA	Solid	8015 NM	
880-16308-29	Augar Hole 8	Total/NA	Solid	8015 NM	
880-16308-31	Augar Hole 9	Total/NA	Solid	8015 NM	
880-16308-33	Augar Hole 10	Total/NA	Solid	8015 NM	
880-16308-35	Augar Hole 11	Total/NA	Solid	8015 NM	
880-16308-37	Augar Hole 12	Total/NA	Solid	8015 NM	
880-16308-39	Augar Hole 13	Total/NA	Solid	8015 NM	
880-16308-41	Augar Hole 14	Total/NA	Solid	8015 NM	
880-16308-43	Augar Hole 15	Total/NA	Solid	8015 NM	
880-16308-44	Augar Hole 16	Total/NA	Solid	8015 NM	
880-16308-45	Augar Hole 17	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 28440

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-16308-1	Augar Hole 1	Soluble	Solid	DI Leach	
880-16308-2	Augar Hole 1	Soluble	Solid	DI Leach	
880-16308-3	Augar Hole 1	Soluble	Solid	DI Leach	
880-16308-4	Augar Hole 1	Soluble	Solid	DI Leach	
880-16308-5	Augar Hole 1	Soluble	Solid	DI Leach	
880-16308-6	Augar Hole 1	Soluble	Solid	DI Leach	
880-16308-7	Augar Hole 1	Soluble	Solid	DI Leach	
880-16308-8	Augar Hole 1	Soluble	Solid	DI Leach	
MB 880-28440/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-28440/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-28440/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-16305-A-3-G MS	Matrix Spike	Soluble	Solid	DI Leach	
880-16305-A-3-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 28446

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-16308-9	Augar Hole 1	Soluble	Solid	DI Leach	
880-16308-10	Augar Hole 2	Soluble	Solid	DI Leach	
880-16308-11	Augar Hole 2	Soluble	Solid	DI Leach	
880-16308-12	Augar Hole 2	Soluble	Solid	DI Leach	
880-16308-13	Augar Hole 2	Soluble	Solid	DI Leach	
880-16308-14	Augar Hole 2	Soluble	Solid	DI Leach	
880-16308-15	Augar Hole 2	Soluble	Solid	DI Leach	
880-16308-16	Augar Hole 2	Soluble	Solid	DI Leach	
880-16308-17	Augar Hole 2	Soluble	Solid	DI Leach	
880-16308-18	Augar Hole 2	Soluble	Solid	DI Leach	
880-16308-19	Augar Hole 3	Soluble	Solid	DI Leach	
880-16308-20	Augar Hole 3	Soluble	Solid	DI Leach	
880-16308-21	Augar Hole 4	Soluble	Solid	DI Leach	
880-16308-22	Augar Hole 4	Soluble	Solid	DI Leach	
880-16308-23	Augar Hole 5	Soluble	Solid	DI Leach	
880-16308-24	Augar Hole 5	Soluble	Solid	DI Leach	
880-16308-25	Augar Hole 6	Soluble	Solid	DI Leach	

Job ID: 880-16308-1 SDG: Eddy Co NM

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Client: American Safety Services Inc. Project/Site: Contango-Karlsbad Corral SWD 2

HPLC/IC (Continued)

Leach Batch: 28446 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-16308-26	Augar Hole 6	Soluble	Solid	DI Leach	
880-16308-27	Augar Hole 7	Soluble	Solid	DI Leach	
880-16308-28	Augar Hole 7	Soluble	Solid	DI Leach	
MB 880-28446/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-28446/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-28446/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-16308-9 MS	Augar Hole 1	Soluble	Solid	DI Leach	
880-16308-9 MSD	Augar Hole 1	Soluble	Solid	DI Leach	
880-16308-19 MS	Augar Hole 3	Soluble	Solid	DI Leach	
880-16308-19 MSD	Augar Hole 3	Soluble	Solid	DI Leach	

Leach Batch: 28447

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-16308-29	Augar Hole 8	Soluble	Solid	DI Leach	
880-16308-30	Augar Hole 8	Soluble	Solid	DI Leach	
880-16308-31	Augar Hole 9	Soluble	Solid	DI Leach	
880-16308-32	Augar Hole 9	Soluble	Solid	DI Leach	
880-16308-33	Augar Hole 10	Soluble	Solid	DI Leach	
880-16308-34	Augar Hole 10	Soluble	Solid	DI Leach	
880-16308-35	Augar Hole 11	Soluble	Solid	DI Leach	
880-16308-36	Augar Hole 11	Soluble	Solid	DI Leach	
880-16308-37	Augar Hole 12	Soluble	Solid	DI Leach	
880-16308-38	Augar Hole 12	Soluble	Solid	DI Leach	
880-16308-39	Augar Hole 13	Soluble	Solid	DI Leach	
880-16308-40	Augar Hole 13	Soluble	Solid	DI Leach	
880-16308-41	Augar Hole 14	Soluble	Solid	DI Leach	
880-16308-42	Augar Hole 14	Soluble	Solid	DI Leach	
880-16308-43	Augar Hole 15	Soluble	Solid	DI Leach	
880-16308-44	Augar Hole 16	Soluble	Solid	DI Leach	
880-16308-45	Augar Hole 17	Soluble	Solid	DI Leach	
MB 880-28447/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-28447/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-28447/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-16308-29 MS	Augar Hole 8	Soluble	Solid	DI Leach	
880-16308-29 MSD	Augar Hole 8	Soluble	Solid	DI Leach	
880-16308-39 MS	Augar Hole 13	Soluble	Solid	DI Leach	
880-16308-39 MSD	Augar Hole 13	Soluble	Solid	DI Leach	

Analysis Batch: 28778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16308-1	Augar Hole 1	Soluble	Solid	300.0	28440
880-16308-2	Augar Hole 1	Soluble	Solid	300.0	28440
880-16308-3	Augar Hole 1	Soluble	Solid	300.0	28440
880-16308-4	Augar Hole 1	Soluble	Solid	300.0	28440
880-16308-5	Augar Hole 1	Soluble	Solid	300.0	28440
880-16308-6	Augar Hole 1	Soluble	Solid	300.0	28440
880-16308-7	Augar Hole 1	Soluble	Solid	300.0	28440
880-16308-8	Augar Hole 1	Soluble	Solid	300.0	28440
MB 880-28440/1-A	Method Blank	Soluble	Solid	300.0	28440
LCS 880-28440/2-A	Lab Control Sample	Soluble	Solid	300.0	28440
LCSD 880-28440/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	28440

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Job ID: 880-16308-1 SDG: Eddy Co NM

Client: American Safety Services Inc. Project/Site: Contango-Karlsbad Corral SWD 2

HPLC/IC (Continued)

Analysis Batch: 28778 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-16305-A-3-G MS	Matrix Spike	Soluble	Solid	300.0	28440
880-16305-A-3-H MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	28440

Analysis Batch: 28782

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-16308-29	Augar Hole 8	Soluble	Solid	300.0	28447
880-16308-30	Augar Hole 8	Soluble	Solid	300.0	28447
880-16308-31	Augar Hole 9	Soluble	Solid	300.0	28447
880-16308-32	Augar Hole 9	Soluble	Solid	300.0	28447
880-16308-33	Augar Hole 10	Soluble	Solid	300.0	28447
880-16308-34	Augar Hole 10	Soluble	Solid	300.0	28447
880-16308-35	Augar Hole 11	Soluble	Solid	300.0	28447
880-16308-36	Augar Hole 11	Soluble	Solid	300.0	28447
880-16308-37	Augar Hole 12	Soluble	Solid	300.0	28447
880-16308-38	Augar Hole 12	Soluble	Solid	300.0	28447
880-16308-39	Augar Hole 13	Soluble	Solid	300.0	28447
880-16308-40	Augar Hole 13	Soluble	Solid	300.0	28447
880-16308-41	Augar Hole 14	Soluble	Solid	300.0	28447
880-16308-42	Augar Hole 14	Soluble	Solid	300.0	28447
880-16308-43	Augar Hole 15	Soluble	Solid	300.0	28447
880-16308-44	Augar Hole 16	Soluble	Solid	300.0	28447
880-16308-45	Augar Hole 17	Soluble	Solid	300.0	28447
MB 880-28447/1-A	Method Blank	Soluble	Solid	300.0	28447
LCS 880-28447/2-A	Lab Control Sample	Soluble	Solid	300.0	28447
LCSD 880-28447/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	28447
880-16308-29 MS	Augar Hole 8	Soluble	Solid	300.0	28447
880-16308-29 MSD	Augar Hole 8	Soluble	Solid	300.0	28447
880-16308-39 MS	Augar Hole 13	Soluble	Solid	300.0	28447
880-16308-39 MSD	Augar Hole 13	Soluble	Solid	300.0	28447

Analysis Batch: 28860

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-16308-9	Augar Hole 1	Soluble	Solid	300.0	28446
880-16308-10	Augar Hole 2	Soluble	Solid	300.0	28446
880-16308-11	Augar Hole 2	Soluble	Solid	300.0	28446
880-16308-12	Augar Hole 2	Soluble	Solid	300.0	28446
880-16308-13	Augar Hole 2	Soluble	Solid	300.0	28446
880-16308-14	Augar Hole 2	Soluble	Solid	300.0	28446
880-16308-15	Augar Hole 2	Soluble	Solid	300.0	28446
880-16308-16	Augar Hole 2	Soluble	Solid	300.0	28446
880-16308-17	Augar Hole 2	Soluble	Solid	300.0	28446
880-16308-18	Augar Hole 2	Soluble	Solid	300.0	28446
880-16308-19	Augar Hole 3	Soluble	Solid	300.0	28446
880-16308-20	Augar Hole 3	Soluble	Solid	300.0	28446
880-16308-21	Augar Hole 4	Soluble	Solid	300.0	28446
880-16308-22	Augar Hole 4	Soluble	Solid	300.0	28446
880-16308-23	Augar Hole 5	Soluble	Solid	300.0	28446
880-16308-24	Augar Hole 5	Soluble	Solid	300.0	28446
880-16308-25	Augar Hole 6	Soluble	Solid	300.0	28446
880-16308-26	Augar Hole 6	Soluble	Solid	300.0	28446
880-16308-27	Augar Hole 7	Soluble	Solid	300.0	28446

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Job ID: 880-16308-1

SDG: Eddy Co NM

Client: American Safety Services Inc. Project/Site: Contango-Karlsbad Corral SWD 2

HPLC/IC (Continued)

Analysis Batch: 28860 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16308-28	Augar Hole 7	Soluble	Solid	300.0	28446
MB 880-28446/1-A	Method Blank	Soluble	Solid	300.0	28446
LCS 880-28446/2-A	Lab Control Sample	Soluble	Solid	300.0	28446
LCSD 880-28446/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	28446
880-16308-9 MS	Augar Hole 1	Soluble	Solid	300.0	28446
880-16308-9 MSD	Augar Hole 1	Soluble	Solid	300.0	28446
880-16308-19 MS	Augar Hole 3	Soluble	Solid	300.0	28446
880-16308-19 MSD	Augar Hole 3	Soluble	Solid	300.0	28446

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Job ID: 880-16308-1 SDG: Eddy Co NM

Client Sample ID: Augar Hole 1

Project/Site: Contango-Karlsbad Corral SWD 2

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Job ID: 880-16308-1 SDG: Eddy Co NM

Lab Sample ID: 880-16308-1

Matrix: Solid

Date Collected: 06/23/22 10:00 Date Received: 06/24/22 16:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	28494	06/27/22 16:24	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28710	07/01/22 00:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28832	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28518	06/28/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	28431	06/27/22 09:45	DM	XEN MID
Total/NA	Analysis	8015B NM		5			28407	06/28/22 03:42	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	28440	06/27/22 10:00	SMC	XEN MID
Soluble	Analysis	300.0		5			28778	07/02/22 06:28	СН	XEN MID

Matrix: Solid

Lab Sample ID: 880-16308-3

Lab Sample ID: 880-16308-4

Lab Sample ID: 880-16308-5

unx. 3011u

Matrix: Solid

Matrix: Solid

Matrix: Solid

Date Collected: 06/23/22 10:05 Date Received: 06/24/22 16:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Soluble	Leach	DI Leach			5.03 g	50 mL	28440	06/27/22 10:00	SMC	XEN MID	- 1
Soluble	Analysis	300.0		5			28778	07/02/22 06:52	СН	XEN MID	
<u> </u>											

Client Sample ID: Augar Hole 1

Date Collected: 06/23/22 10:10

Date Received: 06/24/22 16:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	28440	06/27/22 10:00	SMC	XEN MID
Soluble	Analysis	300.0		5			28778	07/02/22 07:00	СН	XEN MID

Client Sample ID: Augar Hole 1 Date Collected: 06/23/22 10:15 Date Received: 06/24/22 16:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	28440	06/27/22 10:00	SMC	XEN MID
Soluble	Analysis	300.0		5			28778	07/02/22 07:08	СН	XEN MID

Client Sample ID: Augar Hole 1 Date Collected: 06/23/22 10:20

Date Received: 06/24/22 16:40

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	28440	06/27/22 10:00	SMC	XEN MID
Soluble	Analysis	300.0		5			28778	07/02/22 07:16	CH	XEN MID

Released to Imaging: 5/26/2023 9:44:42 AM

Amount

5.03 g

Initial

Amount

5.01 g

Final

Amount

50 mL

Final

Amount

50 mL

Batch

28440

28778

Batch

28440

28778

Number

Number

Dil

5

Dil

5

Factor

Factor

Run

Batch

Method

DI Leach

300.0

Batch

Client: American Safety Services Inc. Project/Site: Contango-Karlsbad Corral SWD 2

Batch

Туре

Leach

Batch

Туре

Leach

Analysis

Analysis

Client Sample ID: Augar Hole 1

Date Collected: 06/23/22 10:30

Date Received: 06/24/22 16:40

Prep Type

Soluble

Soluble

Prep Type

Soluble

Soluble

Lab Sample ID: 880-16308-6

Analyst

Lab Sample ID: 880-16308-7

Analyst

Lab Sample ID: 880-16308-8

Lab Sample ID: 880-16308-9

Lab Sample ID: 880-16308-10

SMC

СН

SMC

CH

Prepared

or Analyzed

06/27/22 10:00

07/02/22 07:23

Prepared

or Analyzed

06/27/22 10:00

07/02/22 07:31

Matrix: Solid

Lab

XEN MID

XEN MID

Matrix: Solid

Lab

XEN MID

XEN MID

Matrix: Solid

Matrix: Solid

Matrix: Solid

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Method Run DI Leach 300.0

Client Sample ID: Augar Hole 1

Date Collected: 06/23/22 10:35

Date	Received:	06/24/22	16:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	28440	06/27/22 10:00	SMC	XEN MID
Soluble	Analysis	300.0		5			28778	07/02/22 07:39	СН	XEN MID

Client Sample ID: Augar Hole 1

Date Collected: 06/23/22 10:40 Date Received: 06/24/22 16:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	28446	06/27/22 10:34	SMC	XEN MID
Soluble	Analysis	300.0		5			28860	07/02/22 15:26	СН	XEN MID

Client Sample ID: Augar Hole 2 Date Collected: 06/23/22 10:45

Date Received: 06/24/22 16:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	28494	06/27/22 16:24	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28710	07/01/22 00:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28832	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28518	06/28/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28431	06/27/22 09:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28407	06/27/22 22:44	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	28446	06/27/22 10:34	SMC	XEN MID
Soluble	Analysis	300.0		10			28860	07/02/22 15:50	CH	XEN MID

Amount

5.02 g

5 mL

10.01 g

5.05 g

Final

Amount

5 mL

5 mL

10 mL

50 mL

Batch

28494

28710

28832

28518

28431

28407

28446

28860

Number

Dil

1

1

1

1

5

Factor

Run

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Prep

Batch

Method

5035

8021B

Total BTEX

8015NM Prep

8015B NM

DI Leach

300.0

8015 NM

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Job ID: 880-16308-1 SDG: Eddy Co NM

Lab Sample ID: 880-16308-11

Analyst

MR

MR

SM

SM

DM

SM

SMC

СН

Prepared

or Analyzed

06/27/22 16:24

07/01/22 00:49

07/01/22 10:56

06/28/22 10:27

06/27/22 09:45

06/27/22 23:49

06/27/22 10:34

07/02/22 15:58

Matrix: Solid

Lab

XEN MID

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Sample ID: 880-16308-12 Matrix: Solid

Lab Sample ID: 880-16308-13

Lab Sample ID: 880-16308-14

Lab Sample ID: 880-16308-15

itrix: Solid

Date Collected: 06/23/22 10:55 Date Received: 06/24/22 16:40

Client Sample ID: Augar Hole 2

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Soluble	Leach	DI Leach			5 g	50 mL	28446	06/27/22 10:34	SMC	XEN MID	- 1
Soluble	Analysis	300.0		5			28860	07/02/22 16:05	СН	XEN MID	

Client Sample ID: Augar Hole 2

Date Collected: 06/23/22 11:00

Date Received: 06/24/22 16:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	28446	06/27/22 10:34	SMC	XEN MID
Soluble	Analysis	300.0		5			28860	07/02/22 16:13	CH	XEN MID

Client Sample ID: Augar Hole 2 Date Collected: 06/23/22 11:05 Date Received: 06/24/22 16:40

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	28446	06/27/22 10:34	SMC	XEN MID
Soluble	Analysis	300.0		5			28860	07/02/22 16:37	СН	XEN MID

Client Sample ID: Augar Hole 2 Date Collected: 06/23/22 11:10

Date Received: 06/24/22 16:40

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	28446	06/27/22 10:34	SMC	XEN MID
Soluble	Analysis	300.0		5			28860	07/02/22 16:45	СН	XEN MID

Ргер Туре	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	28446	06/27/22 10:34	SMC	XEN MID
Soluble	Analysis	300.0		5			28860	07/02/22 16:53	СН	XEN MID

Client Sample ID: Augar Hole 2 Date Collected: 06/23/22 11:20 Date Received: 06/24/22 16:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	28446	06/27/22 10:34	SMC	XEN MID
Soluble	Analysis	300.0		5			28860	07/02/22 17:00	СН	XEN MID

Client Sample ID: Augar Hole 2

Lab Sample ID: 880-16308-18 Matrix: Solid

Lab Sample ID: 880-16308-19

Lab Sample ID: 880-16308-20

Date Collected: 06/23/22 11:25 Date Received: 06/24/22 16:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	28446	06/27/22 10:34	SMC	XEN MID
Soluble	Analysis	300.0		5			28860	07/02/22 17:08	СН	XEN MID

Client Sample ID: Augar Hole 3

Date Collected: 06/23/22 11:30

Date Received: 06/24/22 16:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	28494	06/27/22 16:24	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28710	07/01/22 01:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28832	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28518	06/28/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28431	06/27/22 09:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28407	06/28/22 00:10	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	28446	06/27/22 10:34	SMC	XEN MID
Soluble	Analysis	300.0		1			28860	07/02/22 17:16	СН	XEN MID

Client Sample ID: Augar Hole 3 Date Collected: 06/23/22 11:35

Date Received: 06/24/22 16:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	28446	06/27/22 10:34	SMC	XEN MID
Soluble	Analysis	300.0		1			28860	07/02/22 17:40	СН	XEN MID

Eurofins Midland

SDG: Eddy Co NM

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

9

Lab Sample ID: 880-16308-16

Lab Sample ID: 880-16308-17

Amount

4.99 g

5 mL

10.01 g

5 g

Final

Amount

5 mL

5 mL

10 mL

50 mL

Batch

28494

28710

28832

28518

28431

28407

28446

28860

Number

Dil

1

1

1

5

1

Factor

Run

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Prep

Batch

Method

5035

8021B

Total BTEX

8015NM Prep

8015B NM

DI Leach

300.0

8015 NM

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Job ID: 880-16308-1 SDG: Eddy Co NM

Lab Sample ID: 880-16308-21

Analyst

MR

MR

SM

SM

DM

SM

SMC

СН

Prepared

or Analyzed

06/27/22 16:24

07/01/22 01:30

07/01/22 10:56

06/28/22 10:27

06/27/22 09:45

06/28/22 04:03

06/27/22 10:34

07/02/22 17:48

Matrix: Solid

Lab

XEN MID

Matrix: Solid

Matrix: Solid

9 1(

Lab Sample ID: 880-16308-22 Matrix: Solid

Lab Sample ID: 880-16308-23

Lab Sample ID: 880-16308-24

atrix: Solid

Date Collected: 06/23/22 11:45 Date Received: 06/24/22 16:40

Client Sample ID: Augar Hole 4

					Batch	Prepared			
Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
DI Leach			5.03 g	50 mL	28446	06/27/22 10:34	SMC	XEN MID	
300.0		1			28860	07/02/22 18:11	СН	XEN MID	
				0	5		3 1 1 1 1 1 1 1		

Client Sample ID: Augar Hole 5 Date Collected: 06/23/22 11:50

Date Received: 06/24/22 16:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	28494	06/27/22 16:24	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28710	07/01/22 01:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28832	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28518	06/28/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28431	06/27/22 09:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28407	06/28/22 05:48	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	28446	06/27/22 10:34	SMC	XEN MID
Soluble	Analysis	300.0		1			28860	07/02/22 18:19	СН	XEN MID

Client Sample ID: Augar Hole 5 Date Collected: 06/23/22 11:55

Date Received: 06/24/22 16:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	28446	06/27/22 10:34	SMC	XEN MID
Soluble	Analysis	300.0		1			28860	07/02/22 18:27	CH	XEN MID

Amount

5.03 g

5 mL

10.02 g

4.98 g

Final

Amount

5 mL

5 mL

10 mL

50 mL

Batch

28494

28710

28832

28518

28431

28407

28446

28860

Number

Dil

1

1

1

1

1

Factor

Run

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Prep

Batch

Method

5035

8021B

Total BTEX

8015NM Prep

8015B NM

DI Leach

300.0

8015 NM

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Job ID: 880-16308-1 SDG: Eddy Co NM

Lab Sample ID: 880-16308-25

Analyst

MR

MR

SM

SM

DM

SM

SMC

СН

Prepared

or Analyzed

06/27/22 16:24

07/01/22 02:11

07/01/22 10:56

06/28/22 10:27

06/27/22 09:45

06/28/22 05:27

06/27/22 10:34

07/02/22 18:35

Matrix: Solid

Lab

XEN MID

Matrix: Solid

Matrix: Solid

9 10

Lab Sample ID: 880-16308-26 Matrix: Solid

Lab Sample ID: 880-16308-27

Lab Sample ID: 880-16308-28

trix: Solid

Date Collected: 06/23/22 12:05 Date Received: 06/24/22 16:40

Client Sample ID: Augar Hole 6

Amount	Number	or Analvzed	A		
Amount	Number	of Analyzeu	Analyst	Lab	
50 mL	28446	06/27/22 10:34	SMC	XEN MID	1
	28860	07/02/22 18:42	CH	XEN MID	
		50 mL 28446	50 mL 28446 06/27/22 10:34	50 mL 28446 06/27/22 10:34 SMC	50 mL 28446 06/27/22 10:34 SMC XEN MID

Client Sample ID: Augar Hole 7

Date Collected: 06/23/22 12:10 Date Received: 06/24/22 16:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	28494	06/27/22 16:24	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28710	07/01/22 02:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28832	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28518	06/28/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	28431	06/27/22 09:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28407	06/28/22 04:45	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	28446	06/27/22 10:34	SMC	XEN MID
Soluble	Analysis	300.0		1			28860	07/02/22 18:50	CH	XEN MID

Client Sample ID: Augar Hole 7 Date Collected: 06/23/22 12:15

Date Received: 06/24/22 16:40

		•								
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	28446	06/27/22 10:34	SMC	XEN MID
Soluble	Analysis	300.0		1			28860	07/02/22 18:58	СН	XEN MID

Amount

5.04 g

5 mL

10.00 g

5.02 g

Final

Amount

5 mL

5 mL

10 mL

50 mL

Batch

28494

28710

28832

28518

28431

28407

28447

28782

Number

Dil

1

1

1

1

1

Factor

Run

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Prep

Batch

Method

5035

8021B

Total BTEX

8015NM Prep

8015B NM

DI Leach

300.0

8015 NM

Client Sample ID: Augar Hole 8 Date Collected: 06/23/22 12:20 Date Received: 06/24/22 16:40

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Job ID: 880-16308-1 SDG: Eddy Co NM

Lab Sample ID: 880-16308-29

Analyst

MR

MR

SM

SM

DM

SM

SMC

СН

Prepared

or Analyzed

06/27/22 16:24

07/01/22 02:52

07/01/22 10:56

06/28/22 10:27

06/27/22 09:45

06/28/22 00:31

06/27/22 10:39

07/02/22 15:20

Matrix: Solid

Lab

XEN MID

Matrix: Solid

Matrix: Solid

9 1(

Lab Sample ID: 880-16308-30

Lab Sample ID: 880-16308-31

Lab Sample ID: 880-16308-32

Matrix: Solid

Date Collected: 06/23/22 12:25 Date Received: 06/24/22 16:40

Client Sample ID: Augar Hole 8

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Soluble	Leach	DI Leach			5.05 g	50 mL	28447	06/27/22 10:39	SMC	XEN MID	1
Soluble	Analysis	300.0		1			28782	07/02/22 15:48	СН	XEN MID	

Client Sample ID: Augar Hole 9 Date Collected: 06/23/22 12:30

Date Received: 06/23/22 12:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	28494	06/27/22 16:24	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28710	07/01/22 03:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28832	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28518	06/28/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28431	06/27/22 09:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28407	06/28/22 05:06	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	28447	06/27/22 10:39	SMC	XEN MID
Soluble	Analysis	300.0		1			28782	07/02/22 15:57	CH	XEN MID

Client Sample ID: Augar Hole 9 Date Collected: 06/23/22 12:35

Date Received: 06/24/22 16:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	28447	06/27/22 10:39	SMC	XEN MID
Soluble	Analysis	300.0		1			28782	07/02/22 16:06	СН	XEN MID

Initial

Amount

4.99 g

5 mL

10.05 g

5.02 g

Final

Amount

5 mL

5 mL

10 mL

50 mL

Batch

28826

28820

28832

28518

28431

28407

28447

28782

Number

Dil

1

1

1

1

1

Factor

Run

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Client Sample ID: Augar Hole 10

Prep

Batch

Method

5035

8021B

Total BTEX

8015NM Prep

8015B NM

DI Leach

300.0

8015 NM

Job ID: 880-16308-1 SDG: Eddy Co NM

Lab Sample ID: 880-16308-33

Analyst

MR

MR

SM

SM

DM

SM

SMC

СН

Lab Sample ID: 880-16308-35

Lab Sample ID: 880-16308-36

Prepared

or Analyzed

07/01/22 10:06

07/01/22 11:52

07/01/22 10:56

06/28/22 10:27

06/27/22 09:45

06/28/22 00:52

06/27/22 10:39

07/02/22 16:16

Matrix: Solid

Lab

XEN MID

XEN MID Lab Sample ID: 880-16308-34

Matrix: Solid

Matrix: Solid

Matrix: Solid

Date Collected: 06/23/22 12:45 Date Received: 06/24/22 16:40

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Soluble	Leach	DI Leach			5 g	50 mL	28447	06/27/22 10:39	SMC	XEN MID	4
Soluble	Analysis	300.0		1			28782	07/02/22 16:43	СН	XEN MID	

Client Sample ID: Augar Hole 11 Date Collected: 06/23/22 12:50

Date Received: 06/24/22 16:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	28826	07/01/22 10:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28820	07/01/22 13:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28832	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28518	06/28/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	28431	06/27/22 09:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28407	06/28/22 01:13	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	28447	06/27/22 10:39	SMC	XEN MID
Soluble	Analysis	300.0		1			28782	07/02/22 16:53	СН	XEN MID

Client Sample ID: Augar Hole 11 Date Collected: 06/23/22 12:55

Date Received: 06/24/22 16:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	28447	06/27/22 10:39	SMC	XEN MID
Soluble	Analysis	300.0		1			28782	07/02/22 17:02	CH	XEN MID

Initial

Amount

5.03 g

5 mL

10.01 g

5.04 g

Final

Amount

5 mL

5 mL

10 mL

50 mL

Batch

28826

28820

28832

28518

28431

28407

28447

28782

Number

Dil

1

1

1

5

1

Factor

Run

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Client Sample ID: Augar Hole 12

Prep

Batch

Method

5035

8021B

Total BTEX

8015NM Prep

8015B NM

DI Leach

300.0

8015 NM

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Job ID: 880-16308-1 SDG: Eddy Co NM

Lab Sample ID: 880-16308-37

Analyst

MR

MR

SM

SM

DM

SM

SMC

СН

Prepared

or Analyzed

07/01/22 10:06

07/01/22 13:53

07/01/22 10:56

06/28/22 10:27

06/27/22 09:45

06/28/22 04:24

06/27/22 10:39

07/02/22 17:11

Matrix: Solid

Lab

XEN MID

9 1(

Lab Sample ID: 880-16308-38

Lab Sample ID: 880-16308-39

Lab Sample ID: 880-16308-40

Matrix: Solid

Matrix: Solid

Matrix: Solid

Date Collected: 06/23/22 13:05 Date Received: 06/24/22 16:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Soluble	Leach	DI Leach			5 g	50 mL	28447	06/27/22 10:39	SMC	XEN MID	- 1
Soluble	Analysis	300.0		1			28782	07/02/22 17:20	СН	XEN MID	

Client Sample ID: Augar Hole 13 Date Collected: 06/23/22 13:10

Date Received: 06/23/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	28826	07/01/22 10:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28820	07/01/22 14:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28832	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28518	06/28/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	28431	06/27/22 09:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28407	06/28/22 01:34	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	28447	06/27/22 10:39	SMC	XEN MID
Soluble	Analysis	300.0		1			28782	07/02/22 17:29	CH	XEN MID

Client Sample ID: Augar Hole 13 Date Collected: 06/23/22 13:15

Date Received: 06/24/22 16:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	28447	06/27/22 10:39	SMC	XEN MID
Soluble	Analysis	300.0		1			28782	07/02/22 17:57	CH	XEN MID

Initial

Amount

4.97 g

5 mL

10.00 g

5.02 g

Initial

Amount

5.03 g

Final

Amount

5 mL

5 mL

10 mL

50 mL

Final

Amount

50 mL

Batch

28826

28820

28832

28518

28431

28407

28447

28782

Batch

28447

28782

Number

Number

Dil

1

1

1

1

1

Dil

1

Factor

Factor

Run

Run

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Batch

Туре

Leach

Analysis

Prep

Batch

Method

5035

8021B

Total BTEX

8015NM Prep

8015B NM

DI Leach

300.0

Batch

Method

DI Leach

300.0

8015 NM

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Prep Type

Soluble

Soluble

Job ID: 880-16308-1 SDG: Eddy Co NM

Lab Sample ID: 880-16308-41

Analyst

MR

MR

SM

SM

DM

SM

SMC

СН

Prepared

or Analyzed

07/01/22 10:06

07/01/22 14:34

07/01/22 10:56

06/28/22 10:27

06/27/22 09:45

06/28/22 01:55

06/27/22 10:39

07/02/22 18:06

Prepared

or Analyzed

06/27/22 10:39

07/02/22 18:34

Matrix: Solid

Lab

XEN MID

XEN MID Lab Sample ID: 880-16308-42

Matrix: Solid

Analyst Lab SMC XEN MID XEN MID CH Lab Sample ID: 880-16308-43

Matrix: Solid

Client Sample ID: Augar Hole 15 Date Collected: 06/23/22 13:30

Client Sample ID: Augar Hole 14

Date Collected: 06/23/22 13:25

Date Received: 06/24/22 16:40

Date Received: 06/24/22 16:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	28826	07/01/22 10:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28820	07/01/22 14:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28832	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28518	06/28/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28431	06/27/22 09:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28407	06/28/22 02:17	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	28447	06/27/22 10:39	SMC	XEN MID
Soluble	Analysis	300.0		1			28782	07/02/22 18:43	CH	XEN MID

Client Sample ID: Augar Hole 16 Date Collected: 06/23/22 13:35

Date Received: 06/24/22 16:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	28826	07/01/22 10:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28820	07/01/22 15:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28832	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28518	06/28/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28431	06/27/22 09:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28407	06/28/22 02:38	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	28447	06/27/22 10:39	SMC	XEN MID
Soluble	Analysis	300.0		1			28782	07/02/22 18:52	СН	XEN MID

Eurofins Midland

Released to Imaging: 5/26/2023 9:44:42 AM

Lab Sample ID: 880-16308-44

Matrix: Solid

Client Sample ID: Augar Hole 17 Date Collected: 06/23/22 13:40 Date Received: 06/24/22 16:40

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	28826	07/01/22 10:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28820	07/01/22 17:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28832	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28518	06/28/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	28431	06/27/22 09:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28407	06/28/22 03:20	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	28447	06/27/22 10:39	SMC	XEN MID
Soluble	Analysis	300.0		1			28782	07/02/22 19:02	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Job ID: 880-16308-1 SDG: Eddy Co NM

Lab Sample ID: 880-16308-45

Matrix: Solid

Eurofins Midland

Accreditation/Certification Summary

Client: American Safety Services Inc. Project/Site: Contango-Karlsbad Corral SWD 2 Job ID: 880-16308-1 SDG: Eddy Co NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

hority		Program	Identification Number	Expiration Date
xas	N	IELAP	T104704400-22-23	06-30-23
The following analytes	are included in this report, b	out the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for w
the agency does not of	fer certification.			
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte	
0 9		Matrix Solid	Analyte Total TPH	

Eurofins Midland

10

Method Summary

Client: American Safety Services Inc. Project/Site: Contango-Karlsbad Corral SWD 2 Job ID: 880-16308-1

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Vethod	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XEN MID
lotal BTEX	Total BTEX Calculation	TAL SOP	XEN MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
3015NM Prep	Microextraction	SW846	XEN MID
OI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

SDG: Eddy Co NM

Eurofins Midland

Sample Summary

Client: American Safety Services Inc. Project/Site: Contango-Karlsbad Corral SWD 2 Job ID: 880-16308-1 SDG: Eddy Co NM

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
80-16308-1	Augar Hole 1	Solid	06/23/22 10:00	06/24/22 16:40	0.0'-0.5
80-16308-2	Augar Hole 1	Solid	06/23/22 10:05	06/24/22 16:40	0.5'-1.0
80-16308-3	Augar Hole 1	Solid	06/23/22 10:10	06/24/22 16:40	1.0'-1.5
80-16308-4	Augar Hole 1	Solid	06/23/22 10:15	06/24/22 16:40	1.5'-2.0
80-16308-5	Augar Hole 1	Solid	06/23/22 10:20	06/24/22 16:40	2.0'-2.5
80-16308-6	Augar Hole 1	Solid	06/23/22 10:25	06/24/22 16:40	2.5'-3.0
80-16308-7	Augar Hole 1	Solid	06/23/22 10:30	06/24/22 16:40	3.0'-3.5
80-16308-8	Augar Hole 1	Solid	06/23/22 10:35	06/24/22 16:40	3.5'-4.0
80-16308-9	Augar Hole 1	Solid	06/23/22 10:40	06/24/22 16:40	4.0'-4.5
80-16308-10	Augar Hole 2	Solid	06/23/22 10:45	06/24/22 16:40	0.0'-0.5
80-16308-11	Augar Hole 2	Solid	06/23/22 10:50	06/24/22 16:40	0.5'-1.0
80-16308-12	Augar Hole 2	Solid	06/23/22 10:55	06/24/22 16:40	1.0'-1.5
80-16308-13	Augar Hole 2	Solid	06/23/22 11:00	06/24/22 16:40	1.5'-2.0
80-16308-14	Augar Hole 2	Solid	06/23/22 11:05	06/24/22 16:40	2.0'-2.5
80-16308-15	Augar Hole 2	Solid	06/23/22 11:10	06/24/22 16:40	2.5'-3.0
80-16308-16	Augar Hole 2	Solid	06/23/22 11:15	06/24/22 16:40	3.0'-3.5
80-16308-17	Augar Hole 2	Solid	06/23/22 11:20	06/24/22 16:40	3.5'-4.0
80-16308-18	Augar Hole 2	Solid	06/23/22 11:25	06/24/22 16:40	4.0'-4.5
80-16308-19	Augar Hole 3	Solid	06/23/22 11:30	06/24/22 16:40	0.0'-0.5
80-16308-20	Augar Hole 3	Solid	06/23/22 11:35	06/24/22 16:40	0.0'-0.5
80-16308-21	Augar Hole 4	Solid	06/23/22 11:40	06/24/22 16:40	0.0'-0.5
80-16308-22	Augar Hole 4	Solid	06/23/22 11:45	06/24/22 16:40	1.0'-1.5
80-16308-23	Augar Hole 5	Solid	06/23/22 11:50	06/24/22 16:40	0.0'-0.5
80-16308-24	Augar Hole 5	Solid	06/23/22 11:55	06/24/22 16:40	1.0'-1.5
30-16308-25	Augar Hole 6	Solid	06/23/22 12:00	06/24/22 16:40	0.0'-0.5
80-16308-26	Augar Hole 6	Solid	06/23/22 12:05	06/24/22 16:40	1.0'-1.5
80-16308-27	Augar Hole 7	Solid	06/23/22 12:10	06/24/22 16:40	0.0'-0.5
80-16308-28	Augar Hole 7	Solid	06/23/22 12:15	06/24/22 16:40	1.0'-1.5
30-16308-29	Augar Hole 8	Solid	06/23/22 12:20	06/24/22 16:40	0.0'-0.5
80-16308-30	Augar Hole 8	Solid	06/23/22 12:25	06/24/22 16:40	1.0'-1.5
80-16308-31	Augar Hole 9	Solid	06/23/22 12:30	06/24/22 16:40	0.0'-0.5
80-16308-32	Augar Hole 9	Solid	06/23/22 12:35	06/24/22 16:40	1.0'-1.5
80-16308-33	Augar Hole 10	Solid	06/23/22 12:40	06/24/22 16:40	0.0'-0.5
80-16308-34	Augar Hole 10	Solid	06/23/22 12:45	06/24/22 16:40	1.0'-1.5
80-16308-35	Augar Hole 11	Solid	06/23/22 12:50	06/24/22 16:40	0.0'-0.5
80-16308-36	Augar Hole 11	Solid	06/23/22 12:55	06/24/22 16:40	1.0'-1.5
80-16308-37	Augar Hole 12	Solid	06/23/22 13:00	06/24/22 16:40	0.0'-0.5
80-16308-38	Augar Hole 12	Solid	06/23/22 13:05	06/24/22 16:40	1.0'-1.5
80-16308-39	Augar Hole 13	Solid	06/23/22 13:10	06/24/22 16:40	0.0'-0.5
80-16308-40	Augar Hole 13	Solid	06/23/22 13:15	06/24/22 16:40	1.0'-1.5
80-16308-41	Augar Hole 14	Solid	06/23/22 13:20	06/24/22 16:40	0.0'-0.5
80-16308-42	Augar Hole 14	Solid	06/23/22 13:25	06/24/22 16:40	1.0'-1.5
80-16308-43	Augar Hole 15	Solid	06/23/22 13:30	06/24/22 16:40	1.0'-1.5
80-16308-44	Augar Hole 16	Solid	06/23/22 13:35	06/24/22 16:40	0.0'-0.5
80-16308-45	Augar Hole 17	Solid	06/23/22 13:40	06/24/22 16:40	1.0'-1.5

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San / Midla	Antonio, Texas Ind. Texas (43)	(210-509-3334) 2-704-5251)		Phoenix, Arizon	na (480-355-0900)	
		www.xenco.cc	Ш	Xenco Quote #	Xer	Xenco Job #
A Martin			A A A A A A A A A A A A A A A A A A A	A	nalytical Information	Mar and
	Pn	oject Information		_		_
Projec	t Name/Number	Contanoo-Karlsbad (orral SWD 9			
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1	custos	@ restau	D. LEMA			
PON	mber	E Contract	Joi Cont	,		
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1.0'-1.5' 6/23/	2022 1010			×		
1.5'-2.0' 6/23/	2022 1015			×		
2.0'-2.5' 6/23/	2022 1020			×		
2.5'3.0' 6/23/	2022 1025			×		
3.0'-3.5' 6/23/	2022 1030			×		
3.5'-4.0' 6/23/	2022 1035			×		880-16308 Chain of Custody
4.0'-4.5' 6/23/	2022 1040			×		_
0.0'-0.5' 6/23/	2022 1045			×		
Same and	The second second	Data Deliverable	Information		Notes	a boy a contraction of the
		evel II Std QC		ı /raw data)		
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			SAMPLE CUSTODY MUST BE DOCUMENTED BELOW	b, if received by 5:0		Contract TAT	7 Day TAT	X 5 Day TAT	and the summary second second											ollection				Phone No: 432-557-9868									u
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		J	IGE POS						nformati											NaOH/Zn Acetate	Number of preserved bottles					orral SV			×	2			q
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Thermo. Corr Factor																				Field Comments	ww= waste water A = Air	0 = 0il	WI = Wipe	SW = Surface water SL = Sludge	GW =Ground Water DW = Drinking Water	S = Soil/Sed/Solid	W = Water		Matrix Codes			(1.20

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CHAIN OF CUSTODY

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Cating the Considered sizes 4000		Page 3 Of	σ			15/2
Stafford,Texas (281-240-4200)	San Anto	San Antonio, Texas (210-509-3334)	ри	Phoenix, Arızona (480-355-0900)	-355-0900)	7
Dallas Texas (214-902-0300)	Midland,	Midland, Texas (432-704-5251)]			
		www.xenco.com	Xen	Xenco Quote #	Xenco Job #	
	A A A A A A A A A A A A A A A A A A A		and the second se	Analytica	Analytical Information	Matrix Codes
Client / Reporting Information		Project Information				
Company Name / Branch American Safety Services Inc.	Project Nat	Project Name/Number: Contango-Karlsbad Corral SWD 2	WD 2			W = Water
Company Address. 8715 Andrews Hwy	Project Location					GW = Ground Water DW = Drinking Water
Codessa 1X /9/65 Email Phone No:	Invoice To:	Eddy Co NM				P = Product
din@americansafety.net						SW = Surface water SL = Sludge
Project Contact: Thomas Franklin	PO Number)		WI = Wipe
Samplers's Name Miguel			4	в		0 = 0il WW= Waste Water
	Collection		Number of preserved bottles	8021		A = Air
	Sample Depth Date	Time Matrix bottles HCI NaOH/Zn Acetate	HNO3 H2SO4 NaOH NaHSO4 MEOH NONE TPH 8	BTEX		Field Company
1 Auger Hole 4 0	8	1140		×		
2 Auger Hole 4 1	1.0'-1.5' 6/23/2022	1145		×		E 61
3 Auger Hole 5 0	0.0'-0.5' 6/23/2022	1150	×	× ×		0
4 Auger Hole 5	1.0'-1.5' 6/23/2022	1155		×		
5 Auger Hole 6 0	0.0'-0.5' 6/23/2022	1200	×	× ×		°ag
6 Auger Hole 6 1	1.0'-1.5' 6/23/2022	1205		×		
7 Auger Hole 7 0	0.0'-0.5' 6/23/2022	1210	×	×		
8 Auger Hole 7 1	1.0'-1.5' 6/23/2022	1215		×		
g Auger Hole 8 0	0.0'-0.5' 6/23/2022	1220	×	×××		
	1.0'-1.5' 6/23/2022	1225		×		
Turnaround Time (Business days)	a summer and the second se	Data Deliverable Information	tion and a second	and the second	Notes.	
Same Day TAT X 5 Day TAT		Level II Std QC	Level IV (Full Data Pkg /raw	r data)		
Next Day EMERGENCY		Level III Std QC+ Forms	TRRP Level IV			
2 Day EMERGENCY Contract TAT		Level 3 (CLP Forms)	UST / RG -411			
3 Day EMERGENCY		TRRP Checklist				
TAT Starts Day received by Lab, if received by 5:00 pm	m				FED-EX / UPS Tracking #	
	AUST BE DOCUMEN	SAMPLE CUSTODY MUST BE DOCUMENTED BELOW PACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DE	SSESSION, INCLUDING COURIER DE	LIVERY	and the second	
(aller C	6-24-22	1) received by.	Relfriquished By	Date Time	Received By	
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Relinquished by Di	Date Time [*]	Received By	Custody Seal #	Preserved where applicable	applicable On Ice	Cooler Temp. Thermo. Corr Factor
Notice: Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if such loses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at \$5 per sample. These terms will be information of the cost of samples.	a valid purchase orde nd the control of Xenc	r from client company to Xenco its affiliates and sui 20 A minimum charge of \$75 will be applied to each	contractors it assigns standard terms a project. Xenco's liability will be limited to	I I I I I I I I I I I I I I I I I I I	Xenco will be liable only for the cost of sa / samples received by Xenco but not anal	imples and shall not assume any responsibility for any lyzed will be invoiced at \$5 per sample. These terms will
pe emoticed unless previously negotiated under a fully executed client contract.				1	29	and the second

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ABORATORIES

CHAIN OF CUSTODY

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ABORATORIES

CHAIN OF CUSTODY

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Email. tfranklin@americansafety.net	Phone No: 432-557-9868	Invoi	Invoice To:															
Project Contact: Thomas Franklin		5									L							
Samplers's Name Miguel			PO NUMBER															
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AT ORIES

CHAIN OF CUSTODY

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13

Login Sample Receipt Checklist

Client: American Safety Services Inc.

Login Number: 16308 List Number: 1 Creator: Rodriguez, Leticia

<6mm (1/4").

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

Job Number: 880-16308-1 SDG Number: Eddy Co NM 4 5 7 8 9 10 11 12 13 List Source: Eurofins Midland

LINKS

Review your project results through

EOL

Have a Question?

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Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-3201-1

Client Project/Site: carlsabd corral swd 2

For:

Contango Resources LLC 11405 Lovington Hwy Artesia, New Mexico 88210

Attn: Jr Curtis

Authorized for release by: 10/24/2022 3:53:17 PM

John Builes, Project Manager (561)558-4549 John.Builes@et.eurofinsus.com



5

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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	Definitions/Glossary	
-	Job ID: 890-3201-1	
Project/Site: car	rlsabd corral swd 2	
Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	4
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		5
Qualifier	Qualifier Description	
<u>S1-</u>	Surrogate recovery exceeds control limits, low biased.	6
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	8
U	Indicates the analyte was analyzed for but not detected.	
		C
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
<u>¤</u>	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	1
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML MPN	Minimum Level (Dioxin) Most Probable Number	
MPN MQL	Most Probable Number Method Quantitation Limit	
NC	Not Calculated	
ND	Not Calculated Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RER RL	Relative Error Ratio (Radiochemistry) Reporting Limit or Requested Limit (Radiochemistry)	

TEQToxicity Equivalent Quotient (Dioxin)TNTCToo Numerous To Count

Toxicity Equivalent Factor (Dioxin)

TEF

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3201-1

Receipt

The samples were received on 10/13/2022 1:09 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

Receipt Exceptions

The following samples analyzed for were received and analyzed from an unpreserved bulk soil jar: H1 S2 6'0 (890-3201-1), H2 S2 6'0 (890-3201-2), H3 S2 1'6 (890-3201-3), H4 S2 1'0 (890-3201-4), H5 S2 0.6' (890-3201-5), H6 S2 0'6'' (890-3201-6), H7 S2 1'0'' (890-3201-7), H9 S2 1'0'' (890-3201-8), H12 S2 1'0'' (890-3201-9), SW8 S2 (890-3201-10), SW10 S2 (890-3201-11), SW11 S2 (890-3201-12), SW13 S2 (890-3201-13), SW14 S2 (890-3201-14) and SW15 S2 (890-3201-15).

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-36939 and analytical batch 880-36918 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-36939/2-A) and (LCSD 880-36939/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-36940 and analytical batch 880-36920 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Job ID: 890-3201-1

Client: Contango Resources LLC Project/Site: carlsabd corral swd 2

Client Sample ID: H1 S2 6'0 Date Collected: 10/13/22 06:00 Date Received: 10/13/22 13:09

Date Received: 10/ Sample Depth: 6

Lab Sample ID: 890-3201-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/17/22 12:52	10/19/22 12:52	
Toluene	<0.00199	U	0.00199		mg/Kg		10/17/22 12:52	10/19/22 12:52	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/17/22 12:52	10/19/22 12:52	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/17/22 12:52	10/19/22 12:52	
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/17/22 12:52	10/19/22 12:52	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/17/22 12:52	10/19/22 12:52	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	122		70 - 130				10/17/22 12:52	10/19/22 12:52	
1,4-Difluorobenzene (Surr)	98		70 - 130				10/17/22 12:52	10/19/22 12:52	-
Method: TAL SOP Total BTEX - 1	Total BTEX Calo	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/19/22 14:41	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/17/22 09:58	
		. (550)	(00)						
Method: SW846 8015B NM - Die						_			
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 13:52	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 13:52	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 13:52	
Total TPH	<50.0		50.0		mg/Kg		10/14/22 13:00	10/14/22 13:52	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	105		70 - 130				10/14/22 13:00	10/14/22 13:52	
o-Terphenyl	110		70 - 130				10/14/22 13:00	10/14/22 13:52	-
Method: MCAWW 300.0 - Anions	s, Ion Chromato	ography - S	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	5.48		5.00		mg/Kg			10/16/22 20:18	1
lient Sample ID: H2 S2 6'0							Lab San	nple ID: 890-	3201-2
ate Collected: 10/13/22 06:08								Matri	x: Solid
ate Received: 10/13/22 13:09									
ample Depth: 6									
	Organia Comp	ounds (GC))						
Method: SW846 8021B - Volatile	Organic Comp		/						
Method: SW846 8021B - Volatile Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa

	volutile organie oomp		/						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/17/22 12:52	10/19/22 13:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/17/22 12:52	10/19/22 13:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/17/22 12:52	10/19/22 13:13	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/17/22 12:52	10/19/22 13:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/17/22 12:52	10/19/22 13:13	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/17/22 12:52	10/19/22 13:13	1

Matrix: Solid

Lab Sample ID: 890-3201-2

Client: Contango Resources LLC Project/Site: carlsabd corral swd 2

Client Sample ID: H2 S2 6'0 Date Collected: 10/13/22 06:08

Date Received: 10/13/22 13:09 Sample Depth: 6

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	121		70 - 130				10/17/22 12:52	10/19/22 13:13	
1,4-Difluorobenzene (Surr)	98		70 - 130				10/17/22 12:52	10/19/22 13:13	
Method: TAL SOP Total BTEX - T	otal BTEX Cal	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/19/22 14:41	
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0		mg/Kg			10/17/22 09:58	
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 14:14	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 14:14	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 14:14	
Total TPH	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 14:14	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	105		70 - 130				10/14/22 13:00	10/14/22 14:14	
p-Terphenyl	111		70 - 130				10/14/22 13:00	10/14/22 14:14	
Method: MCAWW 300.0 - Anions									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	6.08		4.97		mg/Kg			10/16/22 20:43	
lient Sample ID: H3 S2 1'6							Lab Sar	nple ID: 890-	3201-3
ate Collected: 10/13/22 06:15								Matri	x: Soli
ate Received: 10/13/22 13:09									
ample Depth: 1.0									
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))						
	Decult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte	Result	quanner	112		•	-		Analyzoa	Dirta
Analyte Benzene			0.00199		mg/Kg		10/17/22 12:52	10/19/22 13:34	

Toluene	<0.00199	U	0.00199	r	mg/Kg	10/17/22 12:52	10/19/22 13:34	1
Ethylbenzene	<0.00199	U	0.00199	r	mg/Kg	10/17/22 12:52	10/19/22 13:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	r	mg/Kg	10/17/22 12:52	10/19/22 13:34	1
o-Xylene	<0.00199	U	0.00199	r	mg/Kg	10/17/22 12:52	10/19/22 13:34	1
Xylenes, Total	<0.00398	U	0.00398	r	mg/Kg	10/17/22 12:52	10/19/22 13:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
						40/47/00 40 50	10/10/00 10 01	
4-Bromofluorobenzene (Surr)	125		70 - 130			10/17/22 12:52	10/19/22 13:34	1
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	125 99		70 - 130 70 - 130			10/17/22 12:52	10/19/22 13:34 10/19/22 13:34	1 1
. ,	99	culation						1
1,4-Difluorobenzene (Surr)	99 Total BTEX Calc	culation Qualifier		MDL U	Unit			1 1 Dil Fac

Lab Sample ID: 890-3201-3

Client: Contango Resources LLC Project/Site: carlsabd corral swd 2

Client Sample ID: H3 S2 1'6 Date Collected: 10/13/22 06:15

Date Received: 10/13/22 13:09 Sample Depth: 1.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/17/22 09:58	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/14/22 13:00	10/14/22 14:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/14/22 13:00	10/14/22 14:35	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/14/22 13:00	10/14/22 14:35	1
Total TPH	<49.8	U	49.8		mg/Kg		10/14/22 13:00	10/14/22 14:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				10/14/22 13:00	10/14/22 14:35	1
o-Terphenyl	112		70 - 130				10/14/22 13:00	10/14/22 14:35	1
Method: MCAWW 300.0 - Anions,	Ion Chromato	ography - So	oluble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/16/22 20:51	1
Client Sample ID: H4 S2 1'0							Lab San	nple ID: 890-	3201-4
ate Collected: 10/13/22 06:22									x: Solid

Date Collected: 10/13/22 06:22 Date Received: 10/13/22 13:09

Sample Depth: .6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/17/22 12:52	10/19/22 13:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/17/22 12:52	10/19/22 13:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/17/22 12:52	10/19/22 13:54	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/17/22 12:52	10/19/22 13:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/17/22 12:52	10/19/22 13:54	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/17/22 12:52	10/19/22 13:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				10/17/22 12:52	10/19/22 13:54	1
1,4-Difluorobenzene (Surr)	98		70 - 130				10/17/22 12:52	10/19/22 13:54	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/19/22 14:41	1
Method: SW846 8015 NM - Die	esel Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/17/22 09:58	1
Method: SW846 8015B NM - D)iesel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
							-	-	

Analyte	Result	Quanner		onne	Fiepareu	Analyzeu	Dirrac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg	 10/14/22 13:00	10/14/22 14:56	1
(GRO)-C6-C10							
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg	10/14/22 13:00	10/14/22 14:56	1
C10-C28)							
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg	10/14/22 13:00	10/14/22 14:56	1

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3201-4

Client: Contango Resources LLC Project/Site: carlsabd corral swd 2

Client Sample ID: H4 S2 1'0 Date Collected: 10/13/22 06:22

Date Received: 10/13/22 13:09 Sample Depth: .6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg		10/14/22 13:00	10/14/22 14:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				10/14/22 13:00	10/14/22 14:56	1
o-Terphenyl	108		70 - 130				10/14/22 13:00	10/14/22 14:56	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<5.03	U	5.03		mg/Kg			10/16/22 20:59	1	
Client Sample ID: H5 S2 0.6'							Lab Sar	mple ID: 890-	3201-5	

Client Sample ID: H5 S2 0.6'

Date Collected: 10/13/22 06:30 Date Received: 10/13/22 13:09

Sample Depth: .6

Method: SW846 8021B - Volatil	e Organic Comp	ounds (GC))						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/17/22 12:52	10/19/22 14:15	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/17/22 12:52	10/19/22 14:15	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/17/22 12:52	10/19/22 14:15	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		10/17/22 12:52	10/19/22 14:15	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/17/22 12:52	10/19/22 14:15	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/17/22 12:52	10/19/22 14:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				10/17/22 12:52	10/19/22 14:15	1
1,4-Difluorobenzene (Surr)	94		70 - 130				10/17/22 12:52	10/19/22 14:15	1

	Method: TAL SOP Total BTEX - Tot	al BTEX Calo	culation							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total BTEX	< 0.00403	U	0.00403		mg/Kg			10/19/22 14:41	1
,	_									

Method: SW846 8015 NM - Diesel R	ange Organi	ics (DRO) (O	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/17/22 09:58	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 15:39	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 15:39	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 15:39	1
Total TPH	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 15:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				10/14/22 13:00	10/14/22 15:39	1
o-Terphenyl	111		70 - 130				10/14/22 13:00	10/14/22 15:39	1

		Clie	nt Sample R	esults	;				
Client: Contango Resources LLC								Job ID: 890	-3201-1
Project/Site: carlsabd corral swd 2									
Client Sample ID: H5 S2 0.6'							Lab San	nple ID: 890-	
Date Collected: 10/13/22 06:30 Date Received: 10/13/22 13:09								Matr	ix: Solid
Sample Depth: .6									
Method: MCAWW 300.0 - Anions,	Ion Chromato	ography - S	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01		mg/Kg			10/16/22 21:08	1
Client Sample ID: H6 S2 0'6"							Lab San	nple ID: 890-	3201-6
Date Collected: 10/13/22 06:40									ix: Solid
Date Received: 10/13/22 13:09								Math	
Sample Depth: 1									
Method: SW846 8021B - Volatile C			·						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198		0.00198		mg/Kg		10/17/22 12:52	10/19/22 14:36	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/17/22 12:52	10/19/22 14:36	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/17/22 12:52	10/19/22 14:36	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/17/22 12:52	10/19/22 14:36	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/17/22 12:52	10/19/22 14:36	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/17/22 12:52	10/19/22 14:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				10/17/22 12:52	10/19/22 14:36	1
1,4-Difluorobenzene (Surr)	99		70 - 130				10/17/22 12:52	10/19/22 14:36	1
Method: TAL SOP Total BTEX - To	tal BTEX Cal	culation							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/19/22 14:59	1
Mathadi SW/846 2045 NM Dissal	Donno Ormon								
Method: SW846 8015 NM - Diesel Analyte		Qualifier	(GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9		49.9		mg/Kg			10/17/22 09:58	1
	1010	0							
Method: SW846 8015B NM - Diese	el Range Orga	nics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/14/22 13:00	10/14/22 16:00	1
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		10/14/22 13:00	10/14/22 16:00	1
C10-C28)		-			5.15				
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/14/22 13:00	10/14/22 16:00	1
Total TPH	<49.9	U	49.9		mg/Kg		10/14/22 13:00	10/14/22 16:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				10/14/22 13:00	10/14/22 16:00	1
o-Terphenyl	107		70 - 130				10/14/22 13:00	10/14/22 16:00	1
Mothod: MCAMM/200.0 Ariana	Ion Chromote	aranhu S	Solubla						
Method: MCAWW 300.0 - Anions, Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

10/16/22 21:33

Chloride

5.05

mg/Kg

<5.05 U

Client: Contango Resources LLC Project/Site: carlsabd corral swd 2

Client Sample ID: H7 S2 1'0" Date Collected: 10/13/22 06:47 Date Received: 10/13/22 13:09 Sample Depth: 1

Lab Sample ID: 890-3201-7 Matrix: Solid

7 id	
	4
	5
ac	
1	6
1	
1 1	
1	
1	8
1	
ac	9
1	
ac 1 1	
90	
ac 1	
ac	13

ample Depth: 1
Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/17/22 13:04	10/21/22 23:00	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/17/22 13:04	10/21/22 23:00	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/17/22 13:04	10/21/22 23:00	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		10/17/22 13:04	10/21/22 23:00	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/17/22 13:04	10/21/22 23:00	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		10/17/22 13:04	10/21/22 23:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				10/17/22 13:04	10/21/22 23:00	1
1,4-Difluorobenzene (Surr)	89		70 - 130				10/17/22 13:04	10/21/22 23:00	1
Method: TAL SOP Total BTEX - To	otal BTEX Cal	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			10/24/22 15:29	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/17/22 09:58	1
Method: SW846 8015B NM - Diese	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 16:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 16:22	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 16:22	1
Total TPH	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 16:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				10/14/22 13:00	10/14/22 16:22	1
o-Terphenyl	109		70 - 130				10/14/22 13:00	10/14/22 16:22	1
Method: MCAWW 300.0 - Anions,	Ion Chromato	ography - So	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.5		4.99		mg/Kg			10/16/22 21:41	1
lient Sample ID: H9 S2 1'0"							Lab Sar	nple ID: 890-	3201-8
ate Collected: 10/13/22 07:00								Matri	x: Solid
ate Received: 10/13/22 13:09 ample Depth: 1									
Method: SW846 8021B - Volatile C	Organic Comp	ounds (GC)							
Analyte	•	Qualifier	RL	мы	Unit	D	Prepared	Analyzed	Dil Fac

			1						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199		mg/Kg		10/17/22 13:04	10/21/22 23:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:04	10/21/22 23:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:04	10/21/22 23:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/17/22 13:04	10/21/22 23:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:04	10/21/22 23:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/17/22 13:04	10/21/22 23:21	1

Eurofins Carlsbad

Released to Imaging: 5/26/2023 9:44:42 AM

Matrix: Solid

5

Lab Sample ID: 890-3201-8

Client: Contango Resources LLC Project/Site: carlsabd corral swd 2

Client Sample ID: H9 S2 1'0" Date Collected: 10/13/22 07:00

Date Received: 10/13/22 13:09 Sample Depth: 1

0 (0 115					- <i>'</i>		
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				10/17/22 13:04	10/21/22 23:21	1
1,4-Difluorobenzene (Surr)	97		70 - 130				10/17/22 13:04	10/21/22 23:21	1
Method: TAL SOP Total BTEX - To	tal BTEX Calo	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/24/22 15:29	1
_ Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/17/22 09:58	1
-									
Method: SW846 8015B NM - Diese									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		10/14/22 13:00	10/14/22 16:43	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		10/14/22 13:00	10/14/22 16:43	1
C10-C28)	-10.0		40.0		·····		40/44/00 40:00	40/44/00 40:40	1
Oll Range Organics (Over C28-C36)	<49.8		49.8		mg/Kg		10/14/22 13:00	10/14/22 16:43	· · · · · · · ·
Total TPH	<49.8	U	49.8		mg/Kg		10/14/22 13:00	10/14/22 16:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				10/14/22 13:00	10/14/22 16:43	1
o-Terphenyl	115		70 - 130				10/14/22 13:00	10/14/22 16:43	1
Method: MCAWW 300.0 - Anions,	Ion Chromato	ography - S	oluble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96	U	4.96		mg/Kg			10/16/22 21:49	1
Client Sample ID: H12 S2 1'0'							Lab San	nple ID: 890-	3201-9
Date Collected: 10/13/22 07:10								-	x: Solid
Date Received: 10/13/22 13:09								maun	

Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199		mg/Kg		10/17/22 13:04	10/21/22 23:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:04	10/21/22 23:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:04	10/21/22 23:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/17/22 13:04	10/21/22 23:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:04	10/21/22 23:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/17/22 13:04	10/21/22 23:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				10/17/22 13:04	10/21/22 23:42	1
1,4-Difluorobenzene (Surr)	97		70 - 130				10/17/22 13:04	10/21/22 23:42	1
- Method: TAL SOP Total BTEX -	Total BTEX Calo	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/24/22 15:29	1
_ Method: SW846 8015 NM - Dies	el Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/17/22 09:58	1

Client: Contango Resources LLC Project/Site: carlsabd corral swd 2

Client Sample ID: H12 S2 1'0" Date Collected: 10/13/22 07:10

Date Received: 10/13/22 13:09

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 17:05	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 17:05	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 17:05	1
Total TPH	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 17:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				10/14/22 13:00	10/14/22 17:05	1
o-Terphenyl	113		70 - 130				10/14/22 13:00	10/14/22 17:05	1
o-Terphenyl	113		70 - 130						
Method: MCAWW 300.0 - Anions	·	0 1 2							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa

5.02

mg/Kg

Client Sample ID: SW8 S2

Chloride

Date Collected: 10/13/22 07:18 Date Received: 10/13/22 13:09

Method: SW846 8021B - Volat	ile Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:04	10/22/22 00:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:04	10/22/22 00:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:04	10/22/22 00:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/17/22 13:04	10/22/22 00:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:04	10/22/22 00:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/17/22 13:04	10/22/22 00:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				10/17/22 13:04	10/22/22 00:02	1
1,4-Difluorobenzene (Surr)	95		70 - 130				10/17/22 13:04	10/22/22 00:02	1

Method: TAL S	OP Total BTEX - Total BTEX Calo	ulation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/24/22 15:29	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

14.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg	 		10/17/22 09:58	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 17:27	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 17:27	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 17:27	1
Total TPH	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 17:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				10/14/22 13:00	10/14/22 17:27	1
o-Terphenyl	111		70 - 130				10/14/22 13:00	10/14/22 17:27	1

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Job ID: 890-3201-1

Lab Sample ID: 890-3201-9 Matrix: Solid

10/16/22 21:58

Matrix: Solid

Lab Sample ID: 890-3201-10

Job ID: 890-3201-1

Matrix: Solid

Lab Sample ID: 890-3201-10

Client: Contango Resources LLC Project/Site: carlsabd corral swd 2

Client Sample ID: SW8 S2 Date Collected: 10/13/22 07:18 Date Received: 10/13/22 13:09

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	16.0		5.03		mg/Kg			10/16/22 22:06	
lient Sample ID: SW10 S2							Lab Sam	ple ID: 890-3	201-1 [,]
ate Collected: 10/13/22 07:30								-	x: Solio
Date Received: 10/13/22 13:09									
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	< 0.00199	U	0.00199		mg/Kg		10/17/22 13:04	10/22/22 00:23	
Toluene	< 0.00199		0.00199		mg/Kg		10/17/22 13:04	10/22/22 00:23	
Ethylbenzene	< 0.00199		0.00199		mg/Kg		10/17/22 13:04	10/22/22 00:23	
m-Xylene & p-Xylene	< 0.00398		0.00398		mg/Kg		10/17/22 13:04	10/22/22 00:23	
o-Xylene		U	0.00199		mg/Kg		10/17/22 13:04	10/22/22 00:23	
Xylenes, Total	< 0.00398		0.00398		mg/Kg		10/17/22 13:04	10/22/22 00:23	
•					0 0				
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	118		70 - 130				10/17/22 13:04	10/22/22 00:23	
1,4-Difluorobenzene (Surr)	102		70 - 130				10/17/22 13:04	10/22/22 00:23	
Method: TAL SOP Total BTEX - T	otal BTEX Calo	ulation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/24/22 15:29	
_ Method: SW846 8015 NM - Diese	Pango Organ		CC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0		mg/Kg			10/17/22 09:58	
-									
Method: SW846 8015B NM - Dies									
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 17:48	
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 17:48	
C10-C28) Oll Range Organics (Over C28-C36)	<50.0		50.0		mg/Kg		10/14/22 13:00	10/14/22 17:48	
Total TPH	<50.0		50.0				10/14/22 13:00	10/14/22 17:48	
	<50.0	0	50.0		mg/Kg		10/14/22 13:00	10/14/22 17.40	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	103		70 - 130				10/14/22 13:00	10/14/22 17:48	
o-Terphenyl	108		70 - 130				10/14/22 13:00	10/14/22 17:48	
Method: MCAWW 300.0 - Anions	lon Chromato	araphy - S	olublo						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	33.2		4.99		mg/Kg			10/16/22 22:14	
Client Sample ID: SW11 S2							l ah Sam	ple ID: 890-3	201_1'
ate Collected: 10/13/22 07:37								-	x: Soli
Date Received: 10/13/22 13:09								IVIGUI	x. 3010
Method: SW846 8021B - Volatile		ounds (GC) Qualifier		MDL		_			Dil Fa
Analyte			RL			D	Prepared	Analyzed	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:04	10/22/22 00:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:04	10/22/22 00:44	1

Client: Contango Resources LLC Project/Site: carlsabd corral swd 2

Client Sample ID: SW11 S2 Date Collected: 10/13/22 07:37

Date Received: 10/13/22 13:09

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:04	10/22/22 00:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/17/22 13:04	10/22/22 00:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:04	10/22/22 00:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/17/22 13:04	10/22/22 00:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				10/17/22 13:04	10/22/22 00:44	1
1,4-Difluorobenzene (Surr)	87		70 - 130				10/17/22 13:04	10/22/22 00:44	1
Method: TAL SOP Total BTEX - To	otal BTEX Calo	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			10/24/22 15:29	1
Method: SW846 8015 NM - Diese	Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/17/22 09:58	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 18:10	1
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 18:10	1
C10-C28) Oll Range Organics (Over C28-C36)	<50.0		50.0		mg/Kg		10/14/22 13:00	10/14/22 18:10	1
Total TPH	<50.0		50.0		mg/Kg		10/14/22 13:00	10/14/22 18:10	
	<50.0	0	30.0		mg/rtg		10/14/22 13:00	10/14/22 10:10	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	127		70 - 130				10/14/22 13:00	10/14/22 18:10	
o-Terphenyl	126		70 - 130				10/14/22 13:00	10/14/22 18:10	-
Method: MCAWW 300.0 - Anions	, Ion Chromato	ography - So	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04		mg/Kg			10/16/22 22:39	1
lient Sample ID: SW13 S2							Lab Sam	ple ID: 890-3	201-13
ate Collected: 10/13/22 07:45								Matri	x: Solic
ate Received: 10/13/22 13:09									
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200		0.00200		mg/Kg		10/17/22 13:04	10/22/22 01:04	1

Method: SW846 8021B - Volatile Organic Compounds (GC)												
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed				
Benzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:04	10/22/22 01:04				
Toluene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:04	10/22/22 01:04				
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:04	10/22/22 01:04				
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/17/22 13:04	10/22/22 01:04				
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:04	10/22/22 01:04				
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/17/22 13:04	10/22/22 01:04				

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	10/17/22 13:04	10/22/22 01:04	1
1,4-Difluorobenzene (Surr)	89		70 - 130	10/17/22 13:04	10/22/22 01:04	1

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Matrix: Solid

Job ID: 890-3201-1

Lab Sample ID: 890-3201-12

1

1

1

1

Matrix: Solid

Lab Sample ID: 890-3201-13

Client: Contango Resources LLC Project/Site: carlsabd corral swd 2

Client Sample ID: SW13 S2 Date Collected: 10/13/22 07:45

Date	Received:	10/13/22	13:09

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/24/22 15:29	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/17/22 09:58	
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		10/14/22 13:00	10/14/22 18:31	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		10/14/22 13:00	10/14/22 18:31	
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/14/22 13:00	10/14/22 18:31	
Total TPH	<49.9	U	49.9		mg/Kg		10/14/22 13:00	10/14/22 18:31	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane			70 - 130				10/14/22 13:00	10/14/22 18:31	
o-Terphenyl	114		70 - 130				10/14/22 13:00	10/14/22 18:31	
Method: MCAWW 300.0 - Anions	s, Ion Chromato	ography - So	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.3		5.02		mg/Kg			10/16/22 22:48	

Client Sample ID: SW14 S2

Date Collected: 10/13/22 07:05

Date Received: 10/13/22 13:09

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:04	10/22/22 01:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:04	10/22/22 01:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:04	10/22/22 01:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/17/22 13:04	10/22/22 01:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:04	10/22/22 01:25	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/17/22 13:04	10/22/22 01:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				10/17/22 13:04	10/22/22 01:25	1
1,4-Difluorobenzene (Surr)	104		70 - 130				10/17/22 13:04	10/22/22 01:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/24/22 15:29	1
Method: SW846 8015 NM - Diese	el Range Organ	ICS (DRO) (G	iC)						
Method: SW846 8015 NM - Diese Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)											
Analyte	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac				
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		10/14/22 13:00	10/14/22 18:53	1		
(GRO)-C6-C10											

Eurofins Carlsbad

Matrix: Solid

Client: Contango Resources LLC Project/Site: carlsabd corral swd 2

Client Sample ID: SW14 S2 Date Collected: 10/13/22 07:05

Date Received: 10/13/22 13:09

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		10/14/22 13:00	10/14/22 18:53	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/14/22 13:00	10/14/22 18:53	1
Total TPH	<49.9	U	49.9		mg/Kg		10/14/22 13:00	10/14/22 18:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				10/14/22 13:00	10/14/22 18:53	1
o-Terphenyl	108		70 - 130				10/14/22 13:00	10/14/22 18:53	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	ography - So	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.80		5.00		mg/Kg			10/16/22 23:13	1
lient Sample ID: SW15 S2							Lab Sam	ple ID: 890-3	201-15
ate Collected: 10/13/22 08:02								Matri	x: Solid
ate Received: 10/13/22 13:09									

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:04	10/22/22 01:46	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:04	10/22/22 01:46	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:04	10/22/22 01:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/17/22 13:04	10/22/22 01:46	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:04	10/22/22 01:46	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/17/22 13:04	10/22/22 01:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				10/17/22 13:04	10/22/22 01:46	1
1,4-Difluorobenzene (Surr)	103		70 - 130				10/17/22 13:04	10/22/22 01:46	1

Method: TAL SOP Total BTEX - To	tal BTEX Calo	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00402	U	0.00402		mg/Kg			10/24/22 15:29	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	I	mg/Kg			10/17/22 09:58	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 15:39	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 15:39	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 15:39	1
Total TPH	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 15:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				10/14/22 13:00	10/14/22 15:39	1
o-Terphenyl	124		70 - 130				10/14/22 13:00	10/14/22 15:39	1

Job ID: 890-3201-1

Lab Sample ID: 890-3201-14

Matrix: Solid

		Client	Sample R	esults	5						
Client: Contango Resources LLC Project/Site: carlsabd corral swd 2							Job ID: 890-3201-1				
Client Sample ID: SW15 S2 Date Collected: 10/13/22 08:02							Lab Sam	ple ID: 890-3 Matri	201-15 ix: Solid	3	
Date Received: 10/13/22 13:09										4	
Method: MCAWW 300.0 - Anions, Ion Analyte		graphy - Solu Qualifier	ible RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	5	
Chloride	16.7		5.00		mg/Kg			10/16/22 23:21	1	G	
										F	
										-	

Prep Type: Total/NA

Surrogate Summary

Client: Contango Resources LLC Project/Site: carlsabd corral swd 2

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

Percent Surrogate Recovery (Acceptance Limits) BFB1 DFBZ1 (70-130) (70-130) Lab Sample ID **Client Sample ID** 890-3201-1 H1 S2 6'0 98 122 890-3201-2 H2 S2 6'0 121 98 890-3201-3 H3 S2 1'6 125 99 890-3201-4 H4 S2 1'0 98 123 890-3201-5 H5 S2 0.6 117 94 890-3201-6 H6 S2 0'6" 99 117 890-3201-7 H7 S2 1'0" 101 89 890-3201-7 MS H7 S2 1'0" 89 89 890-3201-7 MSD H7 S2 1'0" 96 89 890-3201-8 H9 S2 1'0" 114 97 890-3201-9 H12 S2 1'0" 119 97 890-3201-10 SW8 S2 116 95 890-3201-11 SW10 S2 118 102 890-3201-12 SW11 S2 101 87 SW13 S2 89 890-3201-13 115 SW14 S2 890-3201-14 104 104 890-3201-15 SW15 S2 130 103 LCS 880-37156/1-A Lab Control Sample 104 80 LCS 880-37157/1-A Lab Control Sample 99 89 LCSD 880-37156/2-A Lab Control Sample Dup 95 92 95 88 LCSD 880-37157/2-A Lab Control Sample Dup MB 880-37156/5-A Method Blank 96 80 MB 880-37157/5-A Method Blank 101 84 MB 880-37402/5-A Method Blank 105 86

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Matrix: Solid

Prep Type: Total/NA

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-3201-1	H1 S2 6'0	105	110
890-3201-2	H2 S2 6'0	105	111
890-3201-3	H3 S2 1'6	110	112
890-3201-4	H4 S2 1'0	104	108
890-3201-5	H5 S2 0.6'	108	111
890-3201-6	H6 S2 0'6"	105	107
890-3201-7	H7 S2 1'0"	103	109
890-3201-8	H9 S2 1'0"	111	115
890-3201-9	H12 S2 1'0"	107	113
890-3201-10	SW8 S2	105	111
890-3201-11	SW10 S2	103	108
890-3201-12	SW11 S2	127	126
890-3201-13	SW13 S2	110	114
890-3201-14	SW14 S2	104	108
890-3201-15	SW15 S2	116	124

5 6 7

Job ID: 890-3201-1

Client: Contango Resources LLC Project/Site: carlsabd corral swd 2

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued) Matrix: Solid

Matrix: Solid				Prep Type: Total/NA
				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCS 880-36939/2-A	Lab Control Sample	64 S1-	79	
LCS 880-36940/2-A	Lab Control Sample	99	112	
LCSD 880-36939/3-A	Lab Control Sample Dup	65 S1-	81	
LCSD 880-36940/3-A	Lab Control Sample Dup	98	111	
MB 880-36939/1-A	Method Blank	134 S1+	140 S1+	
MB 880-36940/1-A	Method Blank	119	135 S1+	
Surrogate Legend				
1CO = 1-Chlorooctane				

OTPH = o-Terphenyl

QC Sample Results

Client: Contango Resources LLC Project/Site: carlsabd corral swd 2

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-371	56/5-A								C	Client Sa	ample ID: N	lethod	Blank
Matrix: Solid											Prep T	ype: To	tal/NA
Analysis Batch: 37265											Prep	Batch:	37156
	ME	B MB											
Analyte		Qualifier	RL		MDL	Unit		D	Pre	epared	Analyz	ed	Dil Fa
<en. ene<="" td=""><td>U0r00200</td><td>) К</td><td>0r00200</td><td></td><td></td><td>7 g/5 g</td><td></td><td>1</td><td>0/1B</td><td>/22 12:z2</td><td>10/19/22 1</td><td>1:z0</td><td></td></en.>	U0r00200) К	0r00200			7 g/5 g		1	0/1B	/22 12:z2	10/19/22 1	1:z0	
Toluene	U0r00200) K	0r00200			7 g/5 g		1	0/1B	/22 12:z2	10/19/22 1	1:z0	
Ethylben. ene	U0r00200) К	0r 0 0200			7 g/5 g		1	0/1B	/22 12:z2	10/19/22 1	1:z0	
7 -&ylene p , -&ylene	U0ra0X00) К	0r@0X00			7 g/5 g		1	0/1B	/22 12:z2	10/19/22 1	1:z0	
o-&ylene	U0r00200) К	0r00200			7 g/5 g		1	0/1B	/22 12:z2	10/19/22 1	1:z0	
&ylenes4Total	U0ra0X00) К	0na0X00			7 g/5 g		1	0/1B	/22 12:z2	10/19/22 1	1:z0	
	МЕ	B MB											
Surrogate	%Recovery	Qualifier	Limits						Pre	epared	Analyz	ed	Dil Fa
4-Bromofluorobenzene (Surr)	13	3	8+ - 70+					7	7+678	6/7/2/	7+6716/7	72 +	
7,4-Difluorobenzene (Surr)	9-	÷	8+ - 70+					7	7+678	6/7/2/	7+6716/7	772 +	
Lab Sample ID: LCS 880-371	156/1-A							Clie	ent S	Sample	ID: Lab Co	ontrol S	amplo
Matrix: Solid											Prep T	ype: To	tal/N/
Analysis Batch: 37265											Prep	Batch:	3715
			Spike	LCS	LCS						%Rec		
Analyte			Added	Result	Quali	ifier	Unit		D	%Rec	Limits		
<en. ene<="" td=""><td></td><td></td><td>0m100</td><td>0m108H</td><td></td><td></td><td>7 g/5 g</td><td></td><td></td><td>109</td><td>B0 _ 130</td><td></td><td></td></en.>			0m100	0m108H			7 g/5 g			109	B0 _ 130		
Toluene			0n1i00	0m1223			7 g/5 g			122	B0 - 130		
Toluelle			0m100	0m1182			7 g/5 g			118	B0 ₋ 130		
Ethylben. ene			011100	0111102									
			0r200	0raz3X			7 g/5 g			12B	B0 - 130		
Ethylben. ene							7 g/5g 7 g/5g			12B 12X	B0 - 130 B0 - 130		
Ethylben. ene 7 -&ylene p , -&ylene			0r200	0m23X									
Ethylben. ene 7 -&ylene p , -&ylene o-&ylene	LCS LC		0r200 0r1100	0m23X									
Ethylben. ene 7 -&ylene p , -&ylene o-&ylene Surrogate	%Recovery Qu	S alifier	0r200 0r1100 <i>Limits</i>	0m23X									
Ethylben. ene 7 -&ylene p , -&ylene o-&ylene Surrogate 4-Bromofluorobenzene (Surr)	<u>%Recovery</u> Qui 7+4		0r200 0r100 <i>Limits</i> 8+ - 70+	0m23X									
Ethylben. ene 7 -&ylene p , -&ylene o-&ylene	%Recovery Qu		0r200 0r1100 <i>Limits</i>	0m23X									
Ethylben. ene 7 -&ylene p , -&ylene o-&ylene <i>Surrogate</i> <i>4-Bromofluorobenzene (Surr)</i>			0r200 0r100 <i>Limits</i> 8+ - 70+	0m23X			7 g/5g	ent S	amp	12X		Sampl	le Dup
Ethylben. ene 7 -&ylene p , -&ylene o-&ylene Surrogate 4-Bromofluorobenzene (Surr) 7,4-Difluorobenzene (Surr)			0r200 0r100 <i>Limits</i> 8+ - 70+	0m2x3X			7 g/5g	ent S	amp	12X	B0 - 130 ab Contro	Sampl	-
Ethylben. ene 7 -&ylene p , -&ylene o-&ylene Surrogate 4-Bromofluorobenzene (Surr) 7,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-3			0r200 0r100 <i>Limits</i> 8+ - 70+	0m2x3X			7 g/5g	ent S	amp	12X	B0 - 130 ab Control Prep T		tal/N/
Ethylben. ene 7 -&ylene p , -&ylene o-&ylene <i>Surrogate</i> 4-Bromofluorobenzene (Surr) 7,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-3 Matrix: Solid			0r200 0r100 <i>Limits</i> 8+ - 70+	0m2x3X	LCSI	D	7 g/5g	ent S	amp	12X	B0 - 130 ab Control Prep T	ype: To	tal/N/ 3715
Ethylben. ene 7 -&ylene p , -&ylene o-&ylene <i>Surrogate</i> 4-Bromofluorobenzene (Surr) 7,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-3 Matrix: Solid			0r200 0r100 <i>Limits</i> 8+ - 70+ 8+ - 70+	Oraz 3X Ora23H			7 g/5g		amp	12X	B0 - 130 ab Control Prep T Prep	ype: To	tal/N/ 3715 RPI
Ethylben. ene 7 -&ylene p , -&ylene o-&ylene <i>Surrogate</i> 4-Bromofluorobenzene (Surr) 7,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-3 Matrix: Solid Analysis Batch: 37265			0r200 0r100 <i>Limits</i> 8+ - 70+ 8+ - 70+ Spike	Orfiz 3X Orfi 23H			7 g/5g		-	12X Die ID: L	B0 - 130 ab Control Prep T Prep %Rec	ype: To Batch:	tal/N/ 37150 RPI Limi
Ethylben. ene 7 -&ylene p , -&ylene o-&ylene <i>Surrogate</i> <i>4-Bromofluorobenzene (Surr)</i> 7,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-3 Matrix: Solid Analysis Batch: 37265 Analyte			0r200 0r100 <i>Limits</i> 8+ - 70+ 8+ - 70+ Spike Added	0ritz 3X 0rit23H LCSD Result			7 g/5g Cli 7 g/5g		-	12X Die ID: L %Rec	B0 - 130 ab Control Prep T Prep %Rec Limits	ype: To Batch: 	tal/N/ 3715 RPI Lim 3
Ethylben. ene 7 -&ylene p , -&ylene o-&ylene <i>Surrogate</i> <i>4-Bromofluorobenzene (Surr)</i> 7,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-3 Matrix: Solid Analysis Batch: 37265 Analyte <en. ene<="" td=""><td></td><td></td><td>0r200 0r100 <u>Limits</u> 8+ - 70+ 8+ - 70+ Spike Added 0r100</td><td>Oráz 3X Orti23H LCSD Result Orti03H</td><td></td><td></td><td>7 g/5g Cli <u>Unit</u> 7 g/5g 7 g/5g</td><td></td><td>-</td><td>12X Die ID: L <u>%Rec</u> 10X -</td><td>B0 - 130 ab Control Prep T %Rec Limits B0 - 130</td><td>ype: To Batch: RPD z</td><td>tal/N/ 3715 RPI Limi 3</td></en.>			0r200 0r100 <u>Limits</u> 8+ - 70+ 8+ - 70+ Spike Added 0r100	Oráz 3X Orti23H LCSD Result Orti03H			7 g/5g Cli <u>Unit</u> 7 g/5g 7 g/5g		-	12X Die ID: L <u>%Rec</u> 10X -	B0 - 130 ab Control Prep T %Rec Limits B0 - 130	ype: To Batch: RPD z	tal/N/ 3715 RPI Limi 3
Ethylben. ene 7 -&ylene p , -&ylene o-&ylene <i>Surrogate</i> <i>4-Bromofluorobenzene (Surr)</i> 7, <i>4-Difluorobenzene (Surr)</i> Lab Sample ID: LCSD 880-3' Matrix: Solid Analysis Batch: 37265 Analyte <en. ene<br="">Toluene Ethylben. ene</en.>			0r200 0r100 <i>Limits</i> 8+ - 70+ 8+ - 70+ Spike Added 0r100 0r100 0r100	0ráz3X 0ríl23H LCSD Result 0ríl03H 0ríl080 0ríl032			7 g/5g Cli 7 g/5g 7 g/5g 7 g/5g 7 g/5g		-	12X ble ID: L %Rec 10X 10B 103	B0 - 130 ab Control Prep T Prep %Rec Limits B0 - 130 B0 - 130 B0 - 130	ype: To Batch: RPD z 13 1X	tal/N/ 37150 RPI Limi 3: 3: 3:
Ethylben. ene 7 -&ylene p , -&ylene o-&ylene <i>Surrogate</i> <i>4-Bromofluorobenzene (Surr)</i> 7, <i>4-Difluorobenzene (Surr)</i> Lab Sample ID: LCSD 880-3' Matrix: Solid Analysis Batch: 37265 Analyte <en. ene<br="">Toluene Ethylben. ene 7 -&ylene p , -&ylene</en.>			0r200 0r100 <i>Limits</i> 8+ - 70+ 8+ - 70+ Spike Added 0r100 0r100	Oráz 3X Oráz 3H Cráck CSD Result Orá03H Orá0BO			7 g/5g Cli 7 g/5g 7 g/5g 7 g/5g 7 g/5g 7 g/5g		-	12X ble ID: L <u>%Rec</u> 10X 10B	B0 - 130 ab Control Prep T Prep %Rec Limits B0 - 130 B0 - 130	ype: To Batch: 	tal/NA 37156 RPE Limi 32 32 32
Ethylben. ene 7 -&ylene p , -&ylene o-&ylene <i>Surrogate</i> <i>4-Bromofluorobenzene (Surr)</i> 7, <i>4-Difluorobenzene (Surr)</i> Lab Sample ID: LCSD 880-3' Matrix: Solid Analysis Batch: 37265 Analyte <en. ene<br="">Toluene Ethylben. ene</en.>	<u>%Recovery</u> <u>Qu</u> 7+4 9+ 7156/2-A	alifier _	0rf200 0rf100 <i>Limits</i> 8+ - 70+ 8+ - 70+ Spike Added 0rf100 0rf100 0rf100 0rf200	0ráz3X 0rá23H LCSD Result 0rň03H 0rň0B0 0rň032 0rá1zz			7 g/5g Cli 7 g/5g 7 g/5g 7 g/5g 7 g/5g		-	12X ble ID: L %Rec 10X 10B 103 108	B0 - 130 ab Control Prep T Prep %Rec Limits B0 - 130 B0 - 130 B0 - 130 B0 - 130	ype: To Batch: RPD z 13 1X 1H	tal/NA 3715(RPI Limi 3: 3: 3: 3: 3:
Ethylben. ene 7 -&ylene p , -&ylene o-&ylene <i>Surrogate</i> <i>4-Bromofluorobenzene (Surr)</i> 7, <i>4-Difluorobenzene (Surr)</i> Lab Sample ID: LCSD 880-3' Matrix: Solid Analysis Batch: 37265 <u>Analyte</u> <en. ene<br="">Toluene Ethylben. ene 7 -&ylene p , -&ylene</en.>	<u>%Recovery</u> <u>Qu</u> 7+4 9+ 7156/2-A 	alifier _	0rf200 0rf100 <i>Limits</i> 8+ - 70+ 8+ - 70+ Spike Added 0rf100 0rf100 0rf100 0rf200	0ráz3X 0rá23H LCSD Result 0rň03H 0rň0B0 0rň032 0rá1zz			7 g/5g Cli 7 g/5g 7 g/5g 7 g/5g 7 g/5g 7 g/5g		-	12X ble ID: L %Rec 10X 10B 103 108	B0 - 130 ab Control Prep T Prep %Rec Limits B0 - 130 B0 - 130 B0 - 130 B0 - 130	ype: To Batch: RPD z 13 1X 1H	tal/NA 3715(RPI Limi 3: 3: 3: 3: 3:
Ethylben. ene 7 -&ylene p , -&ylene o-&ylene <i>Surrogate</i> 4-Bromofluorobenzene (Surr) 7,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-3 Matrix: Solid Analysis Batch: 37265 Analyte <en. ene<br="">Toluene Ethylben. ene 7 -&ylene p , -&ylene o-&ylene</en.>	<u>%Recovery</u> <u>Qu</u> 7+4 9+ 7156/2-A 	alifier	0rf200 0rf100 <i>Limits</i> 8+ - 70+ 8+ - 70+ Spike Added 0rf100 0rf100 0rf100 0rf200 0rf100	0ráz3X 0rá23H LCSD Result 0rň03H 0rň0B0 0rň032 0rá1zz			7 g/5g Cli 7 g/5g 7 g/5g 7 g/5g 7 g/5g 7 g/5g		-	12X ble ID: L %Rec 10X 10B 103 108	B0 - 130 ab Control Prep T Prep %Rec Limits B0 - 130 B0 - 130 B0 - 130 B0 - 130	ype: To Batch: RPD z 13 1X 1H	tal/NA 3715(RPI Limi 3: 3: 3: 3: 3:
Ethylben. ene 7 -&ylene p , -&ylene o-&ylene <i>Surrogate</i> <i>4-Bromofluorobenzene (Surr)</i> 7, <i>4-Difluorobenzene (Surr)</i> Lab Sample ID: LCSD 880-3' Matrix: Solid Analysis Batch: 37265 Analyte <en. ene<br="">Toluene Ethylben. ene 7 -&ylene p , -&ylene o-&ylene <i>Surrogate</i></en.>		alifier	0rf200 0rf100 <i>Limits</i> 8+ - 70+ 8+ - 70+ Spike Added 0rf100 0rf100 0rf100 0rf200 0rf100 0rf200 0rf100	0ráz3X 0rá23H LCSD Result 0rň03H 0rň0B0 0rň032 0rá1zz			7 g/5g Cli 7 g/5g 7 g/5g 7 g/5g 7 g/5g 7 g/5g		-	12X ble ID: L %Rec 10X 10B 103 108	B0 - 130 ab Control Prep T Prep %Rec Limits B0 - 130 B0 - 130 B0 - 130 B0 - 130	ype: To Batch: RPD z 13 1X 1H	tal/NA 37156 RPE Limi 32 32 32
Ethylben. ene 7 -&ylene p , -&ylene o-&ylene Surrogate 4-Bromofluorobenzene (Surr) 7,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-3 Matrix: Solid Analysis Batch: 37265 Analyte <en. ene<br="">Toluene Ethylben. ene 7 -&ylene p , -&ylene o-&ylene Surrogate 4-Bromofluorobenzene (Surr) 7,4-Difluorobenzene (Surr) 7,4-Difluorobenzene (Surr) Lab Sample ID: MB 880-371</en.>	<u>%Recovery</u> Qu. 7+4 9+ 7156/2-A <u>LCSD</u> LC. %Recovery Qu. 1: 1/	alifier	0ra00 0rn100 <i>Limits</i> 8+ - 70+ 8+ - 70+ Spike Added 0rn100 0rn100 0rn100 0rn200 0rn100 0rn100 0rn100 8+ - 70+	0ráz3X 0rá23H LCSD Result 0rň03H 0rň0B0 0rň032 0rá1zz			7 g/5g Cli 7 g/5g 7 g/5g 7 g/5g 7 g/5g 7 g/5g		<u>D</u> _	12X ble ID: L %Rec 10X 10B 103 108 10B	B0 - 130 ab Control Prep T %Rec Limits B0 - 130 B0 - 130 B0 - 130 B0 - 130 B0 - 130 B0 - 130	ype: To Batch: z 13 1X 1H 1X	tal/NJ 3715 RPI Lim 3 3 3 3 3 3 8 Blan
Ethylben. ene 7 -&ylene p , -&ylene o-&ylene Surrogate 4-Bromofluorobenzene (Surr) 7,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-3 Matrix: Solid Analysis Batch: 37265 Analyte <en. ene<br="">Toluene Ethylben. ene 7 -&ylene p , -&ylene o-&ylene Surrogate 4-Bromofluorobenzene (Surr) 7,4-Difluorobenzene (Surr) 7,4-Difluorobenzene (Surr) Lab Sample ID: MB 880-371 Matrix: Solid</en.>	<u>%Recovery</u> Qu. 7+4 9+ 7156/2-A <u>LCSD</u> LC. %Recovery Qu. 1: 1/	alifier	0ra00 0rn100 <i>Limits</i> 8+ - 70+ 8+ - 70+ Spike Added 0rn100 0rn100 0rn100 0rn200 0rn100 0rn100 0rn100 8+ - 70+	0ráz3X 0rá23H LCSD Result 0rň03H 0rň0B0 0rň032 0rá1zz			7 g/5g Cli 7 g/5g 7 g/5g 7 g/5g 7 g/5g 7 g/5g		<u>D</u> _	12X ble ID: L %Rec 10X 10B 103 108 10B	B0 - 130 ab Control Prep T Prep %Rec Limits B0 - 130 B0 - 1	ype: To Batch: RPD z 13 1X 1H 1X Method ype: To	tal/N/ 3715 RPI Lim 3 3 3 3 3 3 3 Blanl tal/N/
Ethylben. ene 7 -&ylene p , -&ylene o-&ylene Surrogate 4-Bromofluorobenzene (Surr) 7,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-3 Matrix: Solid Analysis Batch: 37265 Analyte <en. ene<br="">Toluene Ethylben. ene 7 -&ylene p , -&ylene o-&ylene Surrogate 4-Bromofluorobenzene (Surr) 7,4-Difluorobenzene (Surr) 7,4-Difluorobenzene (Surr) Lab Sample ID: MB 880-371</en.>	<u>%Recovery</u> <u>Qu</u> 7+4 9+ 7156/2-A <u>LCSD</u> <u>LC</u> <u>%Recovery</u> <u>Qu</u> 1: 1/ 57/5-A	alifier SD alifier	0ra00 0rn100 <i>Limits</i> 8+ - 70+ 8+ - 70+ Spike Added 0rn100 0rn100 0rn100 0rn200 0rn100 0rn100 0rn100 8+ - 70+	0ráz3X 0rá23H LCSD Result 0rň03H 0rň0B0 0rň032 0rá1zz			7 g/5g Cli 7 g/5g 7 g/5g 7 g/5g 7 g/5g 7 g/5g		<u>D</u> _	12X ble ID: L %Rec 10X 10B 103 108 10B	B0 - 130 ab Control Prep T Prep %Rec Limits B0 - 130 B0 - 1	ype: To Batch: z 13 1X 1H 1X	tal/N/ 37150 RPI Limi 32 32 32 32 32 32 32 32 32 8 10 8 10 8 10 8 10 8 10 10 10 10 10 10 10 10 10 10 10 10 10
Ethylben. ene 7 -&ylene p , -&ylene o-&ylene Surrogate 4-Bromofluorobenzene (Surr) 7,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-3 Matrix: Solid Analysis Batch: 37265 Analyte <en. ene<br="">Toluene Ethylben. ene 7 -&ylene p , -&ylene o-&ylene Surrogate 4-Bromofluorobenzene (Surr) 7,4-Difluorobenzene (Surr) 7,4-Difluorobenzene (Surr) Lab Sample ID: MB 880-3715 Matrix: Solid Analysis Batch: 37452</en.>		alifier SD alifier	0rf200 0rf100 <i>Limits</i> 8+ - 70+ 8+ - 70+ Spike Added 0rf100 0rf100 0rf100 0rf100 0rf100 0rf200 0rf100 0rf100 0rf100 8+ - 70+ 8+ - 70+	0ráz3X 0ríl23H LCSD Result 0ríl03H 0ríl080 0ríl032 0ríl082	Quali	ifier	7 g/5g Cli 7 g/5g 7 g/5g 7 g/5g 7 g/5g 7 g/5g		<u>D</u> _	12X %Rec 10X 10B 103 108 108 10B	E0 - 130 ab Control Prep T Prep T %Rec Limits E0 - 130 E0 - 190 E0 -	ype: To Batch: RPD z 13 1X 1H 1X Method ype: To Batch:	tal/NA 37156 RPE Limi 32 32 32 32 32 32 32 32 32 32 32 32 32
Ethylben. ene 7 -&ylene p , -&ylene o-&ylene Surrogate 4-Bromofluorobenzene (Surr) 7,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-3 Matrix: Solid Analysis Batch: 37265 Analyte <en. ene<br="">Toluene Ethylben. ene 7 -&ylene p , -&ylene o-&ylene Surrogate 4-Bromofluorobenzene (Surr) 7,4-Difluorobenzene (Surr) 7,4-Difluorobenzene (Surr) Lab Sample ID: MB 880-371 Matrix: Solid</en.>		alifier SD alifier B MB t Qualifier	0ra00 0rn100 <i>Limits</i> 8+ - 70+ 8+ - 70+ Spike Added 0rn100 0rn100 0rn100 0rn200 0rn100 0rn100 0rn100 8+ - 70+	0ráz3X 0ríl23H LCSD Result 0ríl03H 0ríl080 0ríl032 0ríl082		ifier	7 g/5g Cli 7 g/5g 7 g/5g 7 g/5g 7 g/5g 7 g/5g 7 g/5g		D C Pre	12X ble ID: L %Rec 10X 10B 103 108 10B	B0 - 130 ab Control Prep T %Rec Limits B0 - 130 B0	Vpe: To Batch: RPD z 13 1X 1H 1X 1H 1X Method ype: To Batch:	tal/NA 37156 RPD Limit 3z 3z 3z 3z 3z 3z

Job ID: 890-3201-1

Batch:	37156	

Analysis Batch: 37265						Prep	Batch:	37156
	Spike	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
<en. ene<="" td=""><td>0m100</td><td>0m103H</td><td>7 g/5 g</td><td></td><td>10X</td><td>B0 - 130</td><td>z</td><td>3z</td></en.>	0m100	0m103H	7 g/5 g		10X	B0 - 130	z	3z
Toluene	0 m 100	0m10B0	7 g/5 g		10B	B0 ₋ 130	13	3z
Ethylben. ene	0m100	0m1032	7 g/5 g		103	B0 ₋ 130	1X	3z
7 -&ylene p , -&ylene	0r200	0m21zz	7 g/5 g		108	B0 - 130	1H	3z
o-&ylene	0m100	0m10B2	7 g/5 g		10B	B0 - 130	1X	3z

Released to Imaging: 5/26/2023 9:44:42 AM

10/24/2022

QC Sample Results

Client: Contango Resources LLC Project/Site: carlsabd corral swd 2 Job ID: 890-3201-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued) Lab Sample ID: MB 880-37157/5-A

Matrix: Solid Analysis Batch: 37452								Prep Type: 7 Prep Batch	
-	MB	MB						-	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylben. ene	U0r00200	K	0r00200		7 g/5 g		10/1B/22 13:0X	10/21/22 22:38	1
7 -&ylene p , -&ylene	U0ra0X00	К	0r@0X00		7 g/5 g		10/1B/22 13:0X	10/21/22 22:38	1
o-&ylene	U0r00200	К	0r00200		7 g/5 g		10/1B/22 13:0X	10/21/22 22:38	1
&ylenes4Total	U0ra0X00	К	0r û 0X00		7 g/5g		10/1B/22 13:0X	10/21/22 22:38	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	7+7		8+ - 70+				7+6786/702+4	7+676///209	7
7,4-Difluorobenzene (Surr)	94		8+ - 70+				7+6786/702+4	7+676///209	7

Lab Sample ID: LCS 880-37157/1-A Matrix: Solid

			Prep Batch: 37157
LCS LCS			%Rec
esult Qualifier	Unit D	%Rec	Limits
11z8	7 g/5 g	11H	B0 - 130
118H	7 g/5 g	119	B0 - 130
1 0z1	7 g/5 g	10z	B0 - 130
333X	7 g/5 g	11B	B0 - 130
1181	7 g/5 g	118	B0 - 130
	Qualifier M128 M18H M021 M33X	Qualifier Unit D M128 7 g/5 g 7 M18H 7 g/5 g 7 M021 7 g/5 g 7 M33X 7 g/5 g 7	Qualifier Unit D %Rec M128 7 g/5 g 11H 11H M18H 7 g/5 g 119 10z M0z1 7 g/5 g 10z 10z M33X 7 g/5 g 11B 11B

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	11		8+ - 70+
7,4-Difluorobenzene (Surr)	91		8+ - 70+

Lab Sample ID: LCSD 880-37157/2-A Matrix: Solid

Analysis Batch: 37452

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Prep Batch: 37157

Analysis Batch. 57452							гтер	Datch.	5/15/
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
<en. ene<="" td=""><td>0rf100</td><td>0r0999X</td><td></td><td>7 g/5 g</td><td></td><td>100</td><td>B0 _ 130</td><td>1z</td><td>3z</td></en.>	0rf100	0r0999X		7 g/5 g		100	B0 _ 130	1z	3z
Toluene	0rfi00	0m1028		7 g/5 g		103	B0 - 130	1X	3z
Ethylben. ene	0m100	0r09HB8		7 g/5 g		9B	B0 _ 130	8	3z
7 -&ylene p,-&ylene	0r200	0r20HX		7 g/5 g		103	B0 - 130	12	3z
o-&ylene	0rfi00	0m10z1		7 g/5 g		10z	B0 - 130	12	3z

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	1:		8+ - 70+
7,4-Difluorobenzene (Surr)	99		8+_70+

Lab Sample ID: 890-3201-7 MS Client Sample ID: H7 S2 1'0" Matrix: Solid Prep Type: Total/NA Analysis Batch: 37452 Prep Batch: 37157 MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D <en. ene U0r00198 Κ 0r099H 0r0B9Bz 7 g/5 g 80 B0 - 130 Toluene U0r000198 K 0r099H 0r0B880 7 g/5 g B8 B0 - 130 Ethylben. ene U0r00198 K 0r099H 0r0B10X 7 g/5 g B1 B0 - 130 0m199 7 -&ylene p , -&ylene U0r0039B K 0m1X9H 7 g/5 g Βz B0 - 130

QC Sample Results

MS MS

0r0BB10

Result Qualifier

Unit

7 g/5 g

Spike

Added

0r099H

Limits

8+_70+

8+ - 70+

Client: Contango Resources LLC Project/Site: carlsabd corral swd 2

Lab Sample ID: 890-3201-7 MS

Analysis Batch: 37452

4-Bromofluorobenzene (Surr)

Analysis Batch: 37452

Lab Sample ID: 890-3201-7 MSD

7,4-Difluorobenzene (Surr)

Matrix: Solid

Analyte

o-&ylene

Surrogate

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Sample Sample

U0n00198

%Recovery

Result Qualifier

ĸ

Qualifier

MS MS

91

91

Client Sample ID: H7 S2 1'0"

%Rec

Limits

B0 - 130

%Rec

BB

D

Prep Type: Total/NA

Prep Batch: 37157

4
5
6
7
8
9

Client Sample ID: H7 S2 1'0"
Prep Type: Total/NA
Prep Batch: 37157

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37402

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
<en. ene<="" td=""><td>U0r00198</td><td>K</td><td>0nfi00</td><td>0r09z88</td><td></td><td>7 g/5 g</td><td></td><td>9H</td><td>B0 - 130</td><td>18</td><td>3z</td></en.>	U0r00198	K	0nfi00	0r09z88		7 g/5 g		9H	B0 - 130	18	3z
Toluene	U0m00198	К	0n f i00	0r09XB1		7 g/5 g		9X	B0 - 130	18	3z
Ethylben. ene	U0m00198	К	0n f i00	0r08z13		7 g/5 g		8z	B0 - 130	18	3z
7 -&ylene p , -&ylene	U0r0039B	K	0n200	0nfiB8X		7 g/5 g		89	B0 _ 130	18	3z
o-&ylene	U0m00198	К	0n f i00	0r09011		7 g/5 g		90	B0 ₋ 130	1H	3z
	MSD	MSD									

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	13		8+ - 70+
7,4-Difluorobenzene (Surr)	91		8+ - 70+

Lab Sample ID: MB 880-37402/5-A Matrix: Solid

Analysis Batch: 37452

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<en. ene<="" td=""><td>U0r00200</td><td>K</td><td>0r00200</td><td></td><td>7 g/5 g</td><td></td><td>10/20/22 11:X0</td><td>10/21/22 11:18</td><td>1</td></en.>	U0r00200	K	0r00200		7 g/5 g		10/20/22 11:X0	10/21/22 11:18	1
Toluene	U0r00200	К	0r00200		7 g/5 g		10/20/22 11:X0	10/21/22 11:18	1
Ethylben. ene	U0r00200	К	0r00200		7 g/5 g		10/20/22 11:X0	10/21/22 11:18	1
7 -&ylene p , -&ylene	U0ra0X00	K	0r00X00		7 g/5 g		10/20/22 11:X0	10/21/22 11:18	1
o-&ylene	U0r00200	К	0r00200		7 g/5 g		10/20/22 11:X0	10/21/22 11:18	1
&ylenes4Total	U0r00X00	К	0na0X00		7 g/5 g		10/20/22 11:X0	10/21/22 11:18	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	7+:		8+ - 70+				7+6 +6 / 7724+	7+6/76/ 77279	7
7,4-Difluorobenzene (Surr)	93		8+ - 70+				7+6 +6 / 7724+	7+676/77279	7

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-36939/1-A Matrix: Solid Analysis Batch: 36918	MB	МВ					Client Sa	mple ID: Metho Prep Type: ⁻ Prep Batcl	Fotal/NA
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oasoline Range(rganics)OR(6CH-C10	Uz0rû	K	z0rô		7 g/5 g		10/1X/22 09:0B	10/1X/22 09:zz	1
Diesel Range (rganics)(ver C10-C286	Uz0rû	К	z0n0		7 g/5 g		10/1X/22 09:0B	10/1X/22 09:zz	1
(II Range (rganics) (ver C28-C3H6	UzOrð	К	z0n0		7 g/5 g		10/1X/22 09:0B	10/1X/22 09:zz	1

Client: Contango Resources LLC Project/Site: carlsabd corral swd 2 Page 108 of 159

Lab Sample ID: MB 880-36939/	1-A								C	Client Sa	mple ID: Met	hod	Blank
Matrix: Solid											Prep Type	e: To	tal/NA
Analysis Batch: 36918											Prep Ba	tch:	36939
	M	в мв											
Analyte	Resu	It Qualifier	RL		MDL	Unit		D	Pre	epared	Analyzed		Dil Fac
Total TPf		10 K	z0rô			7 g/5 g			10/1X	/22 09:0B	10/1X/22 09:z	Ζ	1
Surrogate	M %Recove		Limits						Dr	epared	Analyzed		Dil Fac
7-Chlorooctane)4 S75	8+ - 70+							6/ +12+8	7+6746/ +12	. –	7
o-Terphenyl		+ S75	8+ - 70+							6/ +12+8	7+6746/ +12		7
-													
Lab Sample ID: LCS 880-36939	/ 2-A							С	lient	Sample I	D: Lab Conti		-
Matrix: Solid											Ргер Туре		
Analysis Batch: 36918											Prep Ba	tch:	36939
			Spike		LCS						%Rec		
Analyte			Added	Result	Qua	lifier	Unit		_ <u>D</u> _	%Rec	Limits		
Oasoline Range (rganics			1000	83Br h l			7 g/5 g			8X	B0 - 130		
)OR(6CHC10			1000	10z8			7 ~ / 5 ~			10H	B0 - 130		
Diesel Range (rganics)(ver C10-C286			1000	1020			7 g/5 g			IUH	60 - 130		
	LCS LO												
Surrogate		ualifier	Limits										
7-Chlorooctane	34 S	/-	8+_70+										
o-Terphenyl	81		8+ - 70+										
Lab Sample ID: LCSD 880-3693 Matrix: Solid Analysis Batch: 36918	39/3-A						Cli	ent	Samı	ole ID: La	ab Control Sa Prep Type Prep Ba	e: To	tal/NA 36939
			Spike	LCSD							%Rec		RPD
Analyte			Added	Result	Qua	lifier	Unit		_ <u>D</u>	%Rec		RPD	Limit
Oasoline Range(rganics)OR(6CH-C10			1000	80zm3			7 g/5 g			81	B0 ₋ 130	Х	20
Diesel Range (rganics)(ver C10-C286			1000	10z3			7 g/5 g			10z	B0 - 130	1	20
	LCSD L	CSD											
Surrogate	%Recovery Q	ualifier	Limits										
7-Chlorooctane	3: S	7_	8+ - 70+										
o-Terphenyl	97		8+ - 70+										
Lab Sample ID: MB 880-36940/ Matrix: Solid	1-A								(Client Sa	mple ID: Met Prep Type	e: To	tal/NA
Analysis Batch: 36920											Prep Ba	tch:	36940
		B MB	_					_		-			
Analyte		lt Qualifier			MDL	Unit		<u>D</u>		epared	Analyzed		Dil Fac
Oasoline Range(rganics)OR(6CH-C10	Uz0	10 K	z0n0			7 g/5 g			10/1X	/22 09:09	10/1X/22 09:z	Z	1
Diesel Range (rganics)(ver C10-C286	Uz0	nô K	z0rô			7 g/5 g			10/1X	/22 09:09	10/1X/22 09:z	Z	1
(II Range (rganics)(ver C28-C3H6	したの	n0 K	z0r0			7 g/5 g			10/1X	/22 09:09	10/1X/22 09:z	z	1
Total TPf		ο K	z0rô			7 g/5 g				/22 09:09	10/1X/22 09:z		1
		B MB				-							
Surrogate		B MB ry Qualifier	Limits						Dre	epared	Analyzed		Dil Fac
		<u> </u>								-			
7-Chlorooctane	77	1	8+ - 70+						7+674	6/+12+1	7+6746/+12	:	7

EuroOns Carlsbad

7+6746/ +12:

7+6746/ +12+1

o-Terphenyl

8+ - 70+

70: S75

10/24/2022

QC Sample Results

Client: Contango Resources LLC Project/Site: carlsabd corral swd 2

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: LCS 880-369	40/2-A								Olle	III	Campic	ID: Lab C		
Matrix: Solid													Type: To	
Analysis Batch: 36920				.		~~							Batch	3694
				Spike			LCS			_		%Rec		
Analyte				Added			Qualifier	Unit		D	%Rec	Limits		
Oasoline Range (rganics				1000	90	11121		7 g/5 g			90	B0 - 130		
)OR(&CHC10 Diesel Range (rganics)(ver				1000	92	8r0)		7 g/5 g			93	B0 - 130		
C10-C286				1000	02	010		1 9,0 9			00	20 - 100		
	LCS	LCS												
Surrogate	%Recovery	Quali	fier	Limits										
7-Chlorooctane				8+ - 70+	-									
o-Terphenyl	77/			8+_70+										
Lab Sample ID: LCSD 880-36	6940/3-A							Cli	ent Sa	am	ple ID: I	_ab Contro	ol Samr	le Du
Matrix: Solid											-	Prep 1	Гуре: То	otal/N/
Analysis Batch: 36920													Batch	
-				Spike	LC	SD	LCSD					%Rec		RPI
Analyte				Added	Res	ult	Qualifier	Unit	ſ	C	%Rec	Limits	RPD	Limi
Oasoline Range(rganics)OR(6CHC10				1000	92	XnX		7 g/5 g		_	92	B0 - 130	3	2
Diesel Range (rganics)(ver				1000	93	Xn3i		7 g/5 g			93	B0 - 130	1	2
C10-C286				1000				. 9,09				20 - 100		-
	LCSD													
Surrogate 7-Chlorooctane	% <i>Recovery</i>	Qualit		Limits 8+_70+	-									
o-Terphenyl	19 777			8+ <u>-</u> 70+										
lethod: 300.0 - Anions, l	on Chromat	ogra	phy											
Lab Sample ID: MB 880-3698	37/1-A										Client S	ample ID:	Method	l Blan
Matrix: Solid												Duran		
watrix. Sullu												Prep	Type: S	Solubl
												Prep	Type: S	Solubl
Analysis Batch: 37028	_	MB							_	_				
Analysis Batch: 37028 Analyte		esult	Qualifier			1	MDL Unit		D	Рі	repared	Analyz	zed	Dil Fa
Analysis Batch: 37028 Analyte			Qualifier		RL zrô0	1	<u>MDL</u> <u>Unit</u> 7 g/5 g	9	<u>D</u>	Pı	repared		zed	Dil Fa
Analysis Batch: 37028 Analyte Chloride	L	esult	Qualifier					<u> </u>			-	Analyz	zed 19:z3	Dil Fa
Analysis Batch: 37028 Analyte Chloride Lab Sample ID: LCS 880-369	L	esult	Qualifier					3			-	Analyz 10/1H/22	zed 19:z3	Dil Fa
Analysis Batch: 37028 Analyte Chloride Lab Sample ID: LCS 880-369 Matrix: Solid	L	esult	Qualifier			1		<u> </u>			-	Analyz 10/1H/22	zed 19:z3	Dil Fa
Analysis Batch: 37028 Analyte Chloride Lab Sample ID: LCS 880-369 Matrix: Solid	L	esult	Qualifier	Spike	zm00			<u> </u>			-	Analyz 10/1H/22	zed 19:z3	Dil Fa
Analysis Batch: 37028 Analyte Chloride Lab Sample ID: LCS 880-369 Matrix: Solid Analysis Batch: 37028	L	esult	Qualifier	Spike Added	zrð0	cs	7 g/5 g	Unit	Clie		-	Analyz 10/1H/22 ID: Lab Co Prep	zed 19:z3	Dil Fa
Analysis Batch: 37028 Analyte Chloride Lab Sample ID: LCS 880-369 Matrix: Solid Analysis Batch: 37028 Analyte	L	esult	Qualifier	-	zrð0	CS	7 g/5 g		Clie	nt	Sample	Analyz 10/1H/22 ID: Lab Co Prep %Rec	zed 19:z3	Dil Fa
Analysis Batch: 37028 Analyte Chloride Lab Sample ID: LCS 880-369 Matrix: Solid Analysis Batch: 37028 Analyte Chloride	87/2-A	esult	Qualifier	Added	zrā0 L Res	CS	7 g/5 g	Unit 7 g/5g	Clie	ent	Sample %Rec 9H	Analyz 10/1H/22 DD: Lab Co Prep %Rec Limits 90 - 110	ntrol S	Dil Fa Sampl Solubl
Analysis Batch: 37028 Analyte Chloride Lab Sample ID: LCS 880-369 Matrix: Solid Analysis Batch: 37028 Analyte Chloride Lab Sample ID: LCSD 880-36	87/2-A	esult	Qualifier	Added	zrā0 L Res	CS	7 g/5 g	Unit 7 g/5g	Clie	ent	Sample %Rec 9H	Analyz 10/1H/22 ID: Lab Co Prep %Rec Limits 90 - 110 _ab Contro	ontrol Samp	Dil Fa Sampl Solubl
Analysis Batch: 37028 Analyte Chloride Lab Sample ID: LCS 880-3695 Matrix: Solid Analysis Batch: 37028 Analyte Chloride Lab Sample ID: LCSD 880-36 Matrix: Solid	87/2-A	esult	Qualifier	Added	zrā0 L Res	CS	7 g/5 g	Unit 7 g/5g	Clie	ent	Sample %Rec 9H	Analyz 10/1H/22 ID: Lab Co Prep %Rec Limits 90 - 110 _ab Contro	ntrol S	Dil Fa Sample Solubl
Matrix: Solid Analysis Batch: 37028 Analyte Chloride Lab Sample ID: LCS 880-369 Matrix: Solid Analysis Batch: 37028 Analyte Chloride Lab Sample ID: LCSD 880-36 Matrix: Solid Analysis Batch: 37028	87/2-A	esult	Qualifier	Added	Zrô0 L Res 2X	CS sult ତାହ	7 g/5 g	Unit 7 g/5g	Clie	ent	Sample %Rec 9H	Analyz 10/1H/22 ID: Lab Co Prep %Rec Limits 90 - 110 _ab Contro	ontrol Samp	Dil Fa Sample Soluble
Analysis Batch: 37028 Analyte Chloride Lab Sample ID: LCS 880-369 Matrix: Solid Analysis Batch: 37028 Analyte Chloride Lab Sample ID: LCSD 880-36 Matrix: Solid	87/2-A	esult	Qualifier	Added 2z0	Zr00 L Res 2X	CS sult Or®	7 g/5s	Unit 7 g/5g	Clie	ent	Sample %Rec 9H	Analyz 10/1H/22 ID: Lab Co Prep %Rec Limits 90 - 110 Lab Controc Prep	ontrol Samp	Dil Fa

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QC Sample Results

Client: Contango Resources LLC Project/Site: carlsabd corral swd 2

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-3201-1 MS Matrix: Solid								Cli	ent Sample Prep	e ID: H1 Type: S	
Analysis Batch: 37028											
-	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	zn¥18		2z0	2HBr2		7 g/5 g		10z	90 - 110		
Lab Sample ID: 890-3201-1 MSD								Cli	ent Sample	D: H1	S2 6'0
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 37028											
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	zn¥18		2z0	2X8r8		7 g/5 g		9B	90 _ 110	В	20
- Lab Sample ID: 890-3201-11 MS								Cli	ent Sample	e ID: SW	/10 S2
Matrix: Solid										Type: S	
Analysis Batch: 37028											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	33n2		2z0	2B9r B		7 g/5 g		99	90 _ 110		
Lab Sample ID: 890-3201-11 MSD								Cli	ent Sampl	e ID: SW	/10 S2
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 37028											
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	33r2		2z0	28H163		7 g/5 g		98	90 - 110	1	20

5

7

13

Client Sample D

H1 S2 6'0

H2 S2 6'0

H3 S2 1'6

H4 S2 1'0

H5 S2 0.6'

H6 S2 0'6"

Method Blank

Lab Control Sample

Lab Control Sample Dup

QC Association Summary

Prep Mype

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

x atrid

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Client: Contango Resources LLC Project/Site: carlsabd corral swd 2

Prep Batch

Job ID: 890-3201-1

x etho6

5035

5035

5035

5035

5035

5035

5035

5035

5035

8

3

LCSD 880-37156/2-A Prep Batch: 28498

MB 880-37156/5-A

LCS 880-37156/1-A

GC VOA

Prep Batch: 2849L

bal Sample D

890-3201-1

890-3201-2

890-3201-3

890-3201-4

890-3201-5

890-3201-6

Ріер Баісії. 20490						
bal Sample D	Client Sample D	Prep Mype	x atrid	x etho6	Prep Batch	
890-3201-7	H7 S2 1'0"	Total/NA	Solid	5035		
890-3201-8	H9 S2 1'0"	Total/NA	Solid	5035		
890-3201-9	H12 S2 1'0"	Total/NA	Solid	5035		
890-3201-10	SW8 S2	Total/NA	Solid	5035		
890-3201-11	SW10 S2	Total/NA	Solid	5035		
890-3201-12	SW11 S2	Total/NA	Solid	5035		
890-3201-13	SW13 S2	Total/NA	Solid	5035		
890-3201-14	SW14 S2	Total/NA	Solid	5035		
890-3201-15	SW15 S2	Total/NA	Solid	5035		
MB 880-37157/5-A	Method Blank	Total/NA	Solid	5035		
LCS 880-37157/1-A	Lab Control Sample	Total/NA	Solid	5035		
LCSD 880-37157/2-A	Lab Control Sample Dup	Total/NA	Solid	5035		
890-3201-7 MS	H7 S2 1'0"	Total/NA	Solid	5035		
890-3201-7 MSD	H7 S2 1'0"	Total/NA	Solid	5035		

Analysis Batch: 287L9

bal Sample 🛙	Client Sample D	Prep Mype	x atrid	x etho6	Prep Batch
890-3201-1	H1 S2 6'0	Total/NA	Solid	8021B	37156
890-3201-2	H2 S2 6'0	Total/NA	Solid	8021B	37156
890-3201-3	H3 S2 1'6	Total/NA	Solid	8021B	37156
890-3201-4	H4 S2 1'0	Total/NA	Solid	8021B	37156
890-3201-5	H5 S2 0.6'	Total/NA	Solid	8021B	37156
890-3201-6	H6 S2 0'6"	Total/NA	Solid	8021B	37156
MB 880-37156/5-A	Method Blank	Total/NA	Solid	8021B	37156
LCS 880-37156/1-A	Lab Control Sample	Total/NA	Solid	8021B	37156
LCSD 880-37156/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	37156

Analysis Batch: 28221

bal Sample D	Client Sample D	Prep Mype	x atrid	x etho6	Prep Batch
890-3201-1	H1 S2 6'0	Total/NA	Solid	Total BTEX	
890-3201-2	H2 S2 6'0	Total/NA	Solid	Total BTEX	
890-3201-3	H3 S2 1'6	Total/NA	Solid	Total BTEX	
890-3201-4	H4 S2 1'0	Total/NA	Solid	Total BTEX	
890-3201-5	H5 S2 0.6'	Total/NA	Solid	Total BTEX	
890-3201-6	H6 S2 0'6"	Total/NA	Solid	Total BTEX	
890-3201-7	H7 S2 1'0"	Total/NA	Solid	Total BTEX	
890-3201-8	H9 S2 1'0"	Total/NA	Solid	Total BTEX	
890-3201-9	H12 S2 1'0"	Total/NA	Solid	Total BTEX	
890-3201-10	SW8 S2	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Contango Resources LLC Project/Site: carlsabd corral swd 2

GC VOA Continue6(

Analysis Batch: 28221 @Continue6(

bal Sample 🛙	Client Sample D	Prep Mype	x atrid	x etho6	Prep Batch
890-3201-11	SW10 S2	Total/NA	Solid	Total BTEX	
890-3201-12	SW11 S2	Total/NA	Solid	Total BTEX	
890-3201-13	SW13 S2	Total/NA	Solid	Total BTEX	
890-3201-14	SW14 S2	Total/NA	Solid	Total BTEX	
890-3201-15	SW15 S2	Total/NA	Solid	Total BTEX	
Prep Batch: 28) 37					
bal Sample D	Client Sample D	Prep Mype	x atrid	x etho6	Prep Batch
MB 880-37402/5-A	Method Blank	Total/NA	Solid	5035	
– Analysis Batch: 28) 97					
 bal Sample ⊡	Client Sample D	Prep Mype	x atrid	x etho6	Prep Batch
890-3201-7	H7 S2 1'0"	Total/NA	Solid	8021B	37157
890-3201-8	H9 S2 1'0"	Total/NA	Solid	8021B	37157
890-3201-9	H12 S2 1'0"	Total/NA	Solid	8021B	37157
890-3201-10	SW8 S2	Total/NA	Solid	8021B	37157
890-3201-11	SW10 S2	Total/NA	Solid	8021B	37157
890-3201-12	SW11 S2	Total/NA	Solid	8021B	37157
890-3201-13	SW13 S2	Total/NA	Solid	8021B	37157
890-3201-14	SW14 S2	Total/NA	Solid	8021B	37157
890-3201-15	SW15 S2	Total/NA	Solid	8021B	37157
MB 880-37157/5-A	Method Blank	Total/NA	Solid	8021B	37157
MB 880-37402/5-A	Method Blank	Total/NA	Solid	8021B	37402
LCS 880-37157/1-A	Lab Control Sample	Total/NA	Solid	8021B	37157
LCSD 880-37157/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	37157
890-3201-7 MS	H7 S2 1'0"	Total/NA	Solid	8021B	37157
890-3201-7 MSD	H7 S2 1'0"	Total/NA	Solid	8021B	37157

GC Semi VOA

Analysis Batch: 2L541

bal Sample D	Client Sample D	Prep Mype	x atrid	x etho6	Prep Batch
890-3201-1	H1 S2 6'0	Total/NA	Solid	8015B NM	36939
890-3201-2	H2 S2 6'0	Total/NA	Solid	8015B NM	36939
890-3201-3	H3 S2 1'6	Total/NA	Solid	8015B NM	36939
890-3201-4	H4 S2 1'0	Total/NA	Solid	8015B NM	36939
890-3201-5	H5 S2 0.6'	Total/NA	Solid	8015B NM	36939
890-3201-6	H6 S2 0'6"	Total/NA	Solid	8015B NM	36939
890-3201-7	H7 S2 1'0"	Total/NA	Solid	8015B NM	36939
890-3201-8	H9 S2 1'0"	Total/NA	Solid	8015B NM	36939
890-3201-9	H12 S2 1'0"	Total/NA	Solid	8015B NM	36939
890-3201-10	SW8 S2	Total/NA	Solid	8015B NM	36939
890-3201-11	SW10 S2	Total/NA	Solid	8015B NM	36939
890-3201-12	SW11 S2	Total/NA	Solid	8015B NM	36939
890-3201-13	SW13 S2	Total/NA	Solid	8015B NM	36939
890-3201-14	SW14 S2	Total/NA	Solid	8015B NM	36939
MB 880-36939/1-A	Method Blank	Total/NA	Solid	8015B NM	36939
LCS 880-36939/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	36939
LCSD 880-36939/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	36939

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Job ID: 890-3201-1

QC Association Summary

Client: Contango Resources LLC Project/Site: carlsabd corral swd 2

GC Semi VOA

Analysis Batch: 2L573

bal Sample Г 890-3201-15	Client Sample D SW15 S2	Prep Mype Total/NA	x atrid Solid	x etho6 8015B NM	Prep Batch 36940
MB 880-36940/1-A	Method Blank	Total/NA	Solid	8015B NM	36940
LCS 880-36940/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	36940
LCSD 880-36940/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	36940

Prep Batch: 2L525

bal Sample 🛙	Client Sample D	Prep Mype	x atrid	x etho6	Prep Batch
890-3201-1	H1 S2 6'0	Total/NA	Solid	8015NM Prep	
890-3201-2	H2 S2 6'0	Total/NA	Solid	8015NM Prep	
890-3201-3	H3 S2 1'6	Total/NA	Solid	8015NM Prep	
890-3201-4	H4 S2 1'0	Total/NA	Solid	8015NM Prep	
890-3201-5	H5 S2 0.6'	Total/NA	Solid	8015NM Prep	
890-3201-6	H6 S2 0'6"	Total/NA	Solid	8015NM Prep	
890-3201-7	H7 S2 1'0"	Total/NA	Solid	8015NM Prep	
890-3201-8	H9 S2 1'0"	Total/NA	Solid	8015NM Prep	
890-3201-9	H12 S2 1'0"	Total/NA	Solid	8015NM Prep	
890-3201-10	SW8 S2	Total/NA	Solid	8015NM Prep	
890-3201-11	SW10 S2	Total/NA	Solid	8015NM Prep	
890-3201-12	SW11 S2	Total/NA	Solid	8015NM Prep	
890-3201-13	SW13 S2	Total/NA	Solid	8015NM Prep	
890-3201-14	SW14 S2	Total/NA	Solid	8015NM Prep	
MB 880-36939/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-36939/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-36939/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 2L5) 3

bal Sample IT	Client Sample D	Prep Mype	x atrid	x etho6 Prep Batch
890-3201-15	SW15 S2	Total/NA	Solid	8015NM Prep
MB 880-36940/1-A	Method Blank	Total/NA	Solid	8015NM Prep
LCS 880-36940/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep
LCSD 880-36940/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep

Analysis Batch: 28351

bal Sample D	Client Sample D	Prep Mype	x atrid	x etho6	Prep Batcl
890-3201-1	H1 S2 6'0	Total/NA	Solid	8015 NM	
890-3201-2	H2 S2 6'0	Total/NA	Solid	8015 NM	
890-3201-3	H3 S2 1'6	Total/NA	Solid	8015 NM	
890-3201-4	H4 S2 1'0	Total/NA	Solid	8015 NM	
890-3201-5	H5 S2 0.6'	Total/NA	Solid	8015 NM	
890-3201-6	H6 S2 0'6"	Total/NA	Solid	8015 NM	
890-3201-7	H7 S2 1'0"	Total/NA	Solid	8015 NM	
890-3201-8	H9 S2 1'0"	Total/NA	Solid	8015 NM	
390-3201-9	H12 S2 1'0"	Total/NA	Solid	8015 NM	
390-3201-10	SW8 S2	Total/NA	Solid	8015 NM	
390-3201-11	SW10 S2	Total/NA	Solid	8015 NM	
890-3201-12	SW11 S2	Total/NA	Solid	8015 NM	
890-3201-13	SW13 S2	Total/NA	Solid	8015 NM	
390-3201-14	SW14 S2	Total/NA	Solid	8015 NM	
890-3201-15	SW15 S2	Total/NA	Solid	8015 NM	

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Job ID: 890-3201-1

QC Association Summary

Client: Contango Resources LLC Project/Site: carlsabd corral swd 2 Job ID: 890-3201-1

beach Batch: 2L518

HPbC/DC

bal Sample IT	Client Sample D	Prep Mype	x atrid	x etho6	Prep Batch
890-3201-1	H1 S2 6'0	Soluble	Solid	DI Leach	
890-3201-2	H2 S2 6'0	Soluble	Solid	DI Leach	
890-3201-3	H3 S2 1'6	Soluble	Solid	DI Leach	
890-3201-4	H4 S2 1'0	Soluble	Solid	DI Leach	
890-3201-5	H5 S2 0.6'	Soluble	Solid	DI Leach	
890-3201-6	H6 S2 0'6"	Soluble	Solid	DI Leach	
890-3201-7	H7 S2 1'0"	Soluble	Solid	DI Leach	
890-3201-8	H9 S2 1'0"	Soluble	Solid	DI Leach	
890-3201-9	H12 S2 1'0"	Soluble	Solid	DI Leach	
890-3201-10	SW8 S2	Soluble	Solid	DI Leach	
890-3201-11	SW10 S2	Soluble	Solid	DI Leach	
890-3201-12	SW11 S2	Soluble	Solid	DI Leach	
890-3201-13	SW13 S2	Soluble	Solid	DI Leach	
890-3201-14	SW14 S2	Soluble	Solid	DI Leach	
890-3201-15	SW15 S2	Soluble	Solid	DI Leach	
MB 880-36987/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-36987/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-36987/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3201-1 MS	H1 S2 6'0	Soluble	Solid	DI Leach	
890-3201-1 MSD	H1 S2 6'0	Soluble	Solid	DI Leach	
890-3201-11 MS	SW10 S2	Soluble	Solid	DI Leach	
890-3201-11 MSD	SW10 S2	Soluble	Solid	DI Leach	

Analysis Batch: 28371

bal Sample 🛙	Client Sample D	Prep Mype	x atrid	x etho6	Prep Batch
890-3201-1	H1 S2 6'0	Soluble	Solid	300.0	36987
890-3201-2	H2 S2 6'0	Soluble	Solid	300.0	36987
890-3201-3	H3 S2 1'6	Soluble	Solid	300.0	36987
890-3201-4	H4 S2 1'0	Soluble	Solid	300.0	36987
890-3201-5	H5 S2 0.6'	Soluble	Solid	300.0	36987
890-3201-6	H6 S2 0'6"	Soluble	Solid	300.0	36987
890-3201-7	H7 S2 1'0"	Soluble	Solid	300.0	36987
890-3201-8	H9 S2 1'0"	Soluble	Solid	300.0	36987
890-3201-9	H12 S2 1'0"	Soluble	Solid	300.0	36987
890-3201-10	SW8 S2	Soluble	Solid	300.0	36987
890-3201-11	SW10 S2	Soluble	Solid	300.0	36987
890-3201-12	SW11 S2	Soluble	Solid	300.0	36987
890-3201-13	SW13 S2	Soluble	Solid	300.0	36987
890-3201-14	SW14 S2	Soluble	Solid	300.0	36987
890-3201-15	SW15 S2	Soluble	Solid	300.0	36987
MB 880-36987/1-A	Method Blank	Soluble	Solid	300.0	36987
LCS 880-36987/2-A	Lab Control Sample	Soluble	Solid	300.0	36987
LCSD 880-36987/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	36987
890-3201-1 MS	H1 S2 6'0	Soluble	Solid	300.0	36987
890-3201-1 MSD	H1 S2 6'0	Soluble	Solid	300.0	36987
890-3201-11 MS	SW10 S2	Soluble	Solid	300.0	36987
890-3201-11 MSD	SW10 S2	Soluble	Solid	300.0	36987

Eurofins Carlsbad

Released to Imaging: 5/26/2023 9:44:42 AM

Lab Sample ID: 890-3201-1 Matrix: Solid

Date Collected: 10/13/22 06:00 Date Received: 10/13/22 13:09

Client: Contango Resources LLC

Project/Site: carlsabd corral swd 2 Client Sample ID: H1 S2 6'0

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	37156	10/17/22 12:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37265	10/19/22 12:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37338	10/19/22 14:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			37098	10/17/22 09:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	36939	10/14/22 13:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36918	10/14/22 13:52	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	36987	10/14/22 15:05	KS	EET MID
Soluble	Analysis	300.0		1			37028	10/16/22 20:18	СН	EET MID

Lab Sample ID: 890-3201-2

Lab Sample ID: 890-3201-3

Matrix: Solid

5 6

9

12 13

Client Sample ID: H2 S2 6'0 Date Collected: 10/13/22 06:08

Date Received: 10/13/22 13:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	37156	10/17/22 12:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37265	10/19/22 13:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37338	10/19/22 14:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			37098	10/17/22 09:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36939	10/14/22 13:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36918	10/14/22 14:14	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	36987	10/14/22 15:05	KS	EET MID
Soluble	Analysis	300.0		1			37028	10/16/22 20:43	CH	EET MID

Client Sample ID: H3 S2 1'6 Date Collected: 10/13/22 06:15

Date Received: 10/13/22 13:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	37156	10/17/22 12:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37265	10/19/22 13:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37338	10/19/22 14:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			37098	10/17/22 09:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36939	10/14/22 13:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36918	10/14/22 14:35	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	36987	10/14/22 15:05	KS	EET MID
Soluble	Analysis	300.0		1			37028	10/16/22 20:51	CH	EET MID

Client Sample ID: H4 S2 1'0 Date Collected: 10/13/22 06:22 Date Received: 10/13/22 13:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	37156	10/17/22 12:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37265	10/19/22 13:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37338	10/19/22 14:41	SM	EET MID

Eurofins Carlsbad

Lab Sample ID: 890-3201-4 Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3201-4 Matrix: Solid

Lab Sample ID: 890-3201-5

Date Collected: 10/13/22 06:22 Date Received: 10/13/22 13:09

Client: Contango Resources LLC

Project/Site: carlsabd corral swd 2 Client Sample ID: H4 S2 1'0

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			37098	10/17/22 09:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36939	10/14/22 13:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36918	10/14/22 14:56	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	36987	10/14/22 15:05	KS	EET MID
Soluble	Analysis	300.0		1			37028	10/16/22 20:59	CH	EET MID

Client Sample ID: H5 S2 0.6' Date Collected: 10/13/22 06:30 Date Received: 10/13/22 13:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	37156	10/17/22 12:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37265	10/19/22 14:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37338	10/19/22 14:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			37098	10/17/22 09:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36939	10/14/22 13:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36918	10/14/22 15:39	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	36987	10/14/22 15:05	KS	EET MID
Soluble	Analysis	300.0		1			37028	10/16/22 21:08	СН	EET MID

Client Sample ID: H6 S2 0'6"

Date Collected: 10/13/22 06:40 Date Received: 10/13/22 13:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	37156	10/17/22 12:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37265	10/19/22 14:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37338	10/19/22 14:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			37098	10/17/22 09:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	36939	10/14/22 13:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36918	10/14/22 16:00	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	36987	10/14/22 15:05	KS	EET MID
Soluble	Analysis	300.0		1			37028	10/16/22 21:33	CH	EET MID

Client Sample ID: H7 S2 1'0" Date Collected: 10/13/22 06:47

Date Received: 10/13/22 13:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	37157	10/17/22 13:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37452	10/21/22 23:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37338	10/24/22 15:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			37098	10/17/22 09:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36939	10/14/22 13:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36918	10/14/22 16:22	SM	EET MID

Eurofins Carlsbad

11 12 13

Lab Sample ID: 890-3201-6

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3201-7 Matrix: Solid

Lab Sample ID: 890-3201-7

Lab Sample ID: 890-3201-8

Lab Sample ID: 890-3201-9

Matrix: Solid

Matrix: Solid

Matrix: Solid

9

Client Sample ID: H7 S2 1'0" Date Collected: 10/13/22 06:47

Client: Contango Resources LLC

Project/Site: carlsabd corral swd 2

|--|

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	36987	10/14/22 15:05	KS	EET MID
Soluble	Analysis	300.0		1			37028	10/16/22 21:41	СН	EET MID

Client Sample ID: H9 S2 1'0"

Date Collected: 10/13/22 07:00 Date Received: 10/13/22 13:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	37157	10/17/22 13:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37452	10/21/22 23:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37338	10/24/22 15:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			37098	10/17/22 09:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36939	10/14/22 13:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36918	10/14/22 16:43	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	36987	10/14/22 15:05	KS	EET MID
Soluble	Analysis	300.0		1			37028	10/16/22 21:49	CH	EET MID

Client Sample ID: H12 S2 1'0" Date Collected: 10/13/22 07:10 Date Received: 10/13/22 13:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	37157	10/17/22 13:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37452	10/21/22 23:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37338	10/24/22 15:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			37098	10/17/22 09:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	36939	10/14/22 13:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36918	10/14/22 17:05	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	36987	10/14/22 15:05	KS	EET MID
Soluble	Analysis	300.0		1			37028	10/16/22 21:58	СН	EET MID

Client Sample ID: SW8 S2 Date Collected: 10/13/22 07:18 Date Received: 10/13/22 13:09

Lab Sample ID: 890-3201-10 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	37157	10/17/22 13:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37452	10/22/22 00:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37338	10/24/22 15:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			37098	10/17/22 09:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36939	10/14/22 13:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36918	10/14/22 17:27	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	36987	10/14/22 15:05	KS	EET MID
Soluble	Analysis	300.0		1			37028	10/16/22 22:06	CH	EET MID

Client: Contango Resources LLC

Project/Site: carlsabd corral swd 2 Client Sample ID: SW10 S2

Date Collected: 10/13/22 07:30

Date Received: 10/13/22 13:09

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Batch

Туре

Prep

Analysis

Analysis

Batch

Method

5035

8021B

300.0

Total BTEX

Initial

Amount

5.02 g

5 mL

Final

Amount

5 mL

5 mL

10 mL

1 uL

50 mL

Batch

37157

37452

37338

37098

36939

36918

36987

37028

Number

Dil

1

1

1

Factor

Job ID: 890-3201-1

Lab Sample ID: 890-3201-11

Analyst

MNR

MNR

SM

SM

DM

SM

KS

СН

Lab Sample ID: 890-3201-12

Lab Sample ID: 890-3201-13

Lab Sample ID: 890-3201-14

Matrix: Solid

Lab

EET MID

Matrix: Solid

Matrix: Solid

9

Client Sample ID: SW11 S2 Date Collected: 10/13/22 07:37

Date Received: 10/13/22 13:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	37157	10/17/22 13:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37452	10/22/22 00:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37338	10/24/22 15:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			37098	10/17/22 09:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36939	10/14/22 13:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36918	10/14/22 18:10	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	36987	10/14/22 15:05	KS	EET MID
Soluble	Analysis	300.0		1			37028	10/16/22 22:39	СН	EET MID

Client Sample ID: SW13 S2 Date Collected: 10/13/22 07:45

Date Received: 10/13/22 13:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	37157	10/17/22 13:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37452	10/22/22 01:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37338	10/24/22 15:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			37098	10/17/22 09:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	36939	10/14/22 13:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36918	10/14/22 18:31	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	36987	10/14/22 15:05	KS	EET MID
Soluble	Analysis	300.0		1			37028	10/16/22 22:48	CH	EET MID

Client Sample ID: SW14 S2 Date Collected: 10/13/22 07:05 Date Received: 10/13/22 13:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	37157	10/17/22 13:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37452	10/22/22 01:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37338	10/24/22 15:29	SM	EET MID

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Prepared

or Analyzed

10/17/22 13:04

10/22/22 00:23

10/24/22 15:29

10/17/22 09:58

10/14/22 13:00

10/14/22 17:48

10/14/22 15:05

10/16/22 22:14

Analysis 8015 NM Analysis 1 8015NM Prep Prep 10.00 g Analysis 8015B NM 1 1 uL DI Leach 5.01 g Leach

Run

Released to Imaging: 5/26/2023 9:44:42 AM

Matrix: Solid

Lab Sample ID: 890-3201-14

Lab Sample ID: 890-3201-15

Matrix: Solid

Matrix: Solid

Client Sample ID: SW14 S2 Date Collected: 10/13/22 07:05 Date Received: 10/13/22 13:09

Client: Contango Resources LLC

Project/Site: carlsabd corral swd 2

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			37098	10/17/22 09:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	36939	10/14/22 13:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36918	10/14/22 18:53	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	36987	10/14/22 15:05	KS	EET MID
Soluble	Analysis	300.0		1			37028	10/16/22 23:13	CH	EET MID

Client Sample ID: SW15 S2 Date Collected: 10/13/22 08:02 Date Received: 10/13/22 13:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	37157	10/17/22 13:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37452	10/22/22 01:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37338	10/24/22 15:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			37098	10/17/22 09:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36940	10/14/22 13:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36920	10/14/22 15:39	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	36987	10/14/22 15:05	KS	EET MID
Soluble	Analysis	300.0		1			37028	10/16/22 23:21	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

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s otherwise noted, all and				
	alytes for this laboratory w	/ere covered under each acc	creditation/certification below.	
hority	F	Program	Identification Number	Expiration Date
as	N	NELAP	T104704400-22-24	06-30-23
The following analytes ar the agency does not offe		out the laboratory is not certif	fied by the governing authority. This list ma	ay include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
8015B NM Total BTEX	8015NM Prep	Solid	Total TPH Total BTEX	
IOTAI BIEX		Solid	IOTAL BIEX	

Method Summary

Client: Contango Resources LLC Project/Site: carlsabd corral swd 2

Job ID: 890-3201-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
SW846 =	= "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, M "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third E = TestAmerica Laboratories, Standard Operating Procedure		
Laboratory R			
EET MID :	= Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-544	5	

Protocol References:

Laboratory References:

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Sample Summary

Client: Contango Resources LLC Project/Site: carlsabd corral swd 2

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
90-3201-1	H1 S2 6'0	Solid	10/13/22 06:00	10/13/22 13:09	6
90-3201-2	H2 S2 6'0	Solid	10/13/22 06:08	10/13/22 13:09	6
90-3201-3	H3 S2 1'6	Solid	10/13/22 06:15	10/13/22 13:09	1.0
90-3201-4	H4 S2 1'0	Solid	10/13/22 06:22	10/13/22 13:09	.6
90-3201-5	H5 S2 0.6'	Solid	10/13/22 06:30	10/13/22 13:09	.6
90-3201-6	H6 S2 0'6"	Solid	10/13/22 06:40	10/13/22 13:09	1
0-3201-7	H7 S2 1'0"	Solid	10/13/22 06:47	10/13/22 13:09	1
0-3201-8	H9 S2 1'0"	Solid	10/13/22 07:00	10/13/22 13:09	1
)-3201-9	H12 S2 1'0"	Solid	10/13/22 07:10	10/13/22 13:09	
-3201-10	SW8 S2	Solid	10/13/22 07:18	10/13/22 13:09	
-3201-11	SW10 S2	Solid	10/13/22 07:30	10/13/22 13:09	
-3201-12	SW11 S2	Solid	10/13/22 07:37	10/13/22 13:09	
3201-13	SW13 S2	Solid	10/13/22 07:45	10/13/22 13:09	
-3201-14	SW14 S2	Solid	10/13/22 07:05	10/13/22 13:09	
0-3201-15	SW15 S2	Solid	10/13/22 08:02	10/13/22 13:09	

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	Xenco			EL Paso. T) Hobbs, NA	EL Paso. TX (915) 585-3443. Lubbock. TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	X (806) 794-1296 IM (575) 988-3199		www.xenco.com	Page /	of X
Project Manager:	5	Curts	81	Bill to: (if different)				Work Order Comments	nmo	
Company Name:	Contense		Co	Company Name:			Program:	UST/PST PRP Brownfields	ownfields RRC	Superfund
Address:		Lowindon He	-	Address:			State of Project:	8		
City, State ZIP:	Artzia	00	0	City, State ZIP:			Reporting: L	Reporting: Level II 🗌 Level III	PST/UST TRRP	
Phone:	575-420-8175	175	Email:	JR. Curtis	& Contange	60,00	Deliverables:	EDD ADa	ADaPT Other:	
Project Name:	Karlshad Corra	nol Sivo 2	, Turn Around	bund		ANALYSIS REQUEST	EQUEST		Preservative Codes	odes
)er:			Routine [Rush Code	¢ 3				None: NO DI	DI Water: H ₂ O
Project Location:			Due Date:)				Cool: Cool M	MeOH: Me
Sampler's Name:	JR Curto	Ð	TAT starts the day received by	received by	RC	-				HNO 3: HN
PO #:			the lab, if receive	L					H2S0 4: H2 Na	NaOH: Na
SAMPLE RECEIPT	Tenso Blank:	(Kes) NO	Wet Ice:	Yes No	RD				H ₃ PO ₄ ; HP	
Samples Received Intact:	Yes No	Thermometer ID:		FONDER					NaHSO 4: NABIS	
Cooler Custody Seals:	Yes No NA	A Correction Factor:		0.0	1e	890-3201	Chain of Custody	And the second se	Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:	Yes No NA	Temperature Reading:	e Reading:	1.2	X			_	Zn Acetate+NaOH: Zn	5
Total Containers:		Corrected Temperature:	emperature:	1.0	E				NaOH+Ascorbic Acid: SAPC	1: SAPC
Sample Identification		Matrix Date Sampled	Time D Sampled	Grab/ Comp	Cont Ch B1 TPh				Sample Comments	nents
HI 52 6'.0		5 10-13-22	6:way	6R1 6n5	XXX					
H2 S2 610		S	6:08 AM (6FI I						
		S	BUSAM 1	3.1						
H4 52 1'0"		S	1 WHEE 9	0						
HS 52 0'6"	"	5	6:20 AM C	9.6						
HE 52 0'6"	E .	S	WY CH?9	3,0						
-	•	S	PUVCH:9	0						
H9 52 1'0'	-	S	1:00 AM	0'1						
H12 52 110		3	146101:1.	0.1						
Total 200.7 / 6010	200.8 / 6020:		8RCRA 13PPM	Texas 11 Al Sb	As Ba Be B Cd	Ca Cr Co Cu Fe Pb	Mg Mn Mo Ni	K Se Ag SiO ₂ Na Sr	TI Sn U V Zn	
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Chain of Custody

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Chain of Custody

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Job Number: 890-3201-1

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Contango Resources LLC

Login Number: 3201 List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Job Number: 890-3201-1

List Source: Eurofins Midland

List Creation: 10/14/22 11:49 AM

Login Sample Receipt Checklist

Client: Contango Resources LLC

Login Number: 3201
List Number: 2
Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

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APPENDIX E

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	nAPP2214547419
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party^{1/23}

Responsible Party: Contango Resources, LLC	OGRID 330447	
Contact Name: Chet Stuart	Contact Telephone: (713) 236-7530	
Contact email: CStuart@contango.comIncident # nAPP2214547419		
Contact mailing address: 717 Texas Ave., Suite 2900 Houston, Texas 77002		

Location of Release Source

Latitude 32.1383

Longitude -103.9625 (NAD 83 in decimal degrees to 5 decimal places)

Site Name: Karlsbad Corral SWD 2	Site Type: Well Pad and associated pasture
Date Release Discovered: 5/23/2022	API#: 3001536167

Unit Letter	Section	Township	Range	County
М	11	258	29E	Eddy

Surface Owner: State Federal Tribal Private (Name:)

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls): 171.4	Volume Recovered (bbls): 160
Produced Water	Volume Released (bbls):	Volume Recovered (bbls):
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ⊠ No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

The position of the valve (i.e., closed) prevented communication between the tanks and gun barrel, rerouting the fluid and causing the release. One Hundred and Sixty (160) barrels were release into a lined containment with an additional Eleven and four-tenths (11.4) being released to the habitat. One Hundred and Sixty (160) barrels were recovered.

ceived by OCD: 1/31/202	3 9:04:48 AM State of New Mexico		Page 129 of .
rm C-141			nAPP2214547419
e 2 Oil Conservation Division	District RP		
		Facility ID	
		Application ID	
Was this a major release as defined by 19.15.29.7(A) NMAC? Yes No	If YES, for what reason(s) does the responsible part An excess of 25 barrels was released to the environ		
If YES, was immediate n	otice given to the OCD? By whom? To whom? Wh	en and by what means (phone, e	mail, etc)?
	Yes, email notification to Mike Bratcher OC	D from Chet Stuart-Contango	

Initial Response

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

 \square The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Chet Stuart

Signature: Chet Stuart

email: CStuart@contango.com

Title: Manager-EHS, Ops Support & Production

Date: 5/24/2022

Telephone: 713-236-7530

OCD Only

Received by: Jocelyn Harimon

Date: 01/31/2023

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Oil Conservation Division

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Incident ID	NAPP2214547419
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>>100 (ft bgs)</u>
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🖂 Yes 🗌 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-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.

Ceceived by OCD: 1/31/2023 9:04:48 AM Form C-141 State of New Mexico		_	Page 131 of 159		
	Oil Conservation Division		Incident ID	nAPP2214547419	
Page 4				District RP	
				Facility ID	
				Application ID	
public health or the environment. The failed to adequately investigate and re	to report and/or file certain release noti e acceptance of a C-141 report by the C mediate contamination that pose a three report does not relieve the operator of	fications and per OCD does not reli- at to groundwate responsibility for	form corn ieve the c er, surface r complia Manag	rective actions for rele- operator of liability sho e water, human health ance with any other feo er- Operations Support	ases which may endanger ould their operations have or the environment. In leral, state, or local laws
email: cstuart@contango.com		Telephone:	713-236	-7530	
OCD Only Received by: Jocelyn Ha	arimon	Date:	01/31/	/2023	

Received by OCD: 1/31/2023 9:04:48 AM Form C-141 State of New Mexico

Oil Conservation Division

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Incident ID	NAPP2214547419
District RP	
Facility ID	
Application ID	

Remediation Plan

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Title: Signature: Date: Telephone: _____ email: OCD Only Received by: Date: Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Date:

Page 5

Oil Conservation Division

Incident ID	nAPP2214547419
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.
\square A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate OD	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 certa may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regul restore, reclaim, and re-vegetate the impacted surface area to the co accordance with 19.15.29.13 NMAC including notification to the O	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in DCD when reclamation and re-vegetation are complete.
Printed Name: Chet Stuart	Title: Manager- Operations Support
Signature:Chet Stuart	Date:
email:cstuart@contango.com	Telephone: 713-236-7530
OCD Only	
Received by: Jocelyn Harimon	Date: 01/31/2023
	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:	Title:

APPENDIX F

Manifests

Received by OCD: 1/31/2023 9:04:48 AM		Page 135 of 159
LEA LAND, LLC	INVOICE #	31107
OIL FIELD WASTE LANDFILL		
1300 W. MAIN STREET	Date:	6/1/2022
OKLAHOMA CITY, OK 73106		
	AFE Number:	
PHONE: 405-236-4257		
FAX: 405-236-4261	Charge to:	Karlsbad Corral
		SWD #2
Bill To:	Req:	JR Curtis
ACCOUNTS PAYABLE		
CONTANGO OIL & GAS COMPANY	Date(s) of Service:	05/24/22 - 05/26/22
717 TEXAS AVE., SUITE 2900		
HOUSTON, TEXAS 77002	Manifest #:	155674, 155773,
		155867
	Ship Via:	Tex Mex Rentais
(e);		

Qty	U/M	Description	Unit Price	Total
79.00	Tons	Non-regulated & non-hazardous waste (soil)	\$20.00	\$1,580.00
		Landfill located at Carlsbad, NM		
			Subtotal	\$1,580.00
TERMS: I	NET 30		Sales tax rate	5.500%
			Sales tax	\$86.90
			Total	\$1,666.90

Make all checks payable to LEA LAND, LLC If you have any questions concerning this invoice, please contact: Shelley Denton at 405-249-1667, E-mail: shelley@lealandllc.com

Thank you for your business!

F

			LAND, LLC					
			HOMA CITY, OK 73106 •	PHONE (405) 236-4 —	257 EX	<u>M-</u>	ex
NON	-HAZARDOUS WASTE MANIFE	ST NO	155674	1. PA	GEOF	2. TRAII	ER NO.	13-
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			30 Miles East of C					
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A T L Y	facility is authorized and permitted to receive such was	tes.		1			1	
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D F	Lea Land, LLC		Marker 64, U. Ailes East of Ca		*	0, PHONE:	575-88	7-4048
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Rec	eived by OCD	: 1/31/2023 9:04:48 AM			Page 139 of 159
	LEA LA	ND, LLC		INVOICE #	31154
	OIL FIELD	WASTE LANDFILL			
	1300 W. MA	IN STREET		Date:	6/8/2022
	OKLAHOMA	CITY, OK 73106			
		1		AFE Number:	
	PHONE:	405-236-4257		-	
	FAX:	405-236-4261	(Charge to:	Karlsbad Corral SWD 2
	Bill To:			Req:	JR Curtis
	ACCOUNTS I	PAYABLE			
	CONTANGO	OIL & GAS COMPANY		Date(s) of Service	: 05/27/22 - 06/02/22
		AVE., SUITE 2900			
	HOUSTON, 1	TEXAS 77002		Manifest #:	155946, 155947,
					156038, 156226
				Ship Via:	Tex-Mex Rentals

Qty	U/M	Description	Unit Price	Total
67.04	Tons	Non-regulated & non-hazardous waste (soil)	\$20.00	\$1,340.80
			(14)	
		Landfill located at Carlsbad, NM		
			Subtotal	\$1,340.80
TERMS:	NET 30		Sales tax rate	5.500%
			Sales tax	\$73.74
			Total	\$1,414.54

Make all checks payable to LEA LAND, LLC

If you have any questions concerning this invoice, please contact: Shelley Denton at 405-249-1667, E-mail: shelley@lealandllc.com

Thank you for your business!

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	LEA LAND DISPOSA MILE MARKER #64 US HWY 62/180 • 30 MILES			PHONE (575)	887-4048		
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:: ~?5E	MILE MARKER #64 US HWY 62/180 • 30 MILES F					KIC	0	
	IZEA LAND, LLC 1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257							
NON-HAZARDOUS WASTE MANIFEST, NO 156038 1. PAGE_OF_ 2. TR						TRAILER NO. 37		
°G ⁻ T	PHONE NO.	e ; Suite 2900	ZIP	6. TNF	K-UP DATE 1/31/2022	. <u>4</u> .4		
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED:				9. TOTAL	10. UNIT	11. TEXAS	
N	* Non-Regulated, Non Hazardous Waste	تان بر میکند. ادمان میرون «مارد»		ype Q CM	UANTITY	Wt/Vol.	WASTE ID	
	b. 1						171	
E	c							
R.	ewr: 52740							
A	12. COMMENTS OR SPECIAL INSTRUCTIONS: CKARLSBAD CORRAL SWD #2						0.	
Т	14. IN CASE OF EMERGENCY OR SPILL, CONTACT NAME PHONE NO JOE ONTIVEROS 24-HOUR EMERGENCY NO. 15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proshipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, H							
- K I	PRINTED/TYPED NAME	SIGNATURE					DATE	
TR	16. TRANSPORTER (1)	17.	TRAN	SPOR	FER (2)			
A N	NAME:	NAME: TEXAS I.D. NO.						
P	S P IN CASE OF EMERGENCY CONTACT: O EMERGENCY PHONE: (675): 492-0888 ···· R 18. TRANSPORTER (1): Acknowledgment of receipt of material 19. TRANSPORTER (2): Acknowledgment of receipt of material E PRINTED/TYPED NAME PRINTED/TYPED NAME							
R							int of material	
E								
S	SIGNATURE ALLONG ACCONTACT 5/31	2922 ATURE			D	ATE	<u> </u>	
	ADDRESS:				PHONE:			
DF	Lea Land, LLC Mile Marker 64, U 30 Miles East of C							
I A S C P I O L	PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS		•			۰.	
Is T	21. DISPOSAL FACILIZY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such waste							
	AUTHORIZED SIGNATURE	CELL NO.		DATE		TIN	ιε ζ16	
	ATOR-COP ES 1 & 6 DISPOSAL SITE	•	in the second second			•	COPIES 4 & :	

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	24 1	LEA LA	ND, LLC			75) 887-4048	ħ.	
	1300 WEST MAIN ST	REET • OKLAHOM	A CITY, OK 73106 • 1	PHONE (405) 236-4	257	(Mr	e):
NO	ION-HAZARDOUS WASTEFMAINIFIESTA NO 156226 1. PAGE_OF_ 2. TRAILER NO. #2						#28	
- G :: '	PHONE NO.	CITY	re, Suite 2900-7. STATE		ZIP 6. T	PICK-UP DATE 	211	
Ē	7. NAME OR DESCRIPTION OF WASTE SHIPPE	L	TTTT (TX to to to		TAINERS	9. TOTAL	10. UNIT	11. TEX
N	a Non-Regulated, Non Hazardous Wa		er vielander	No.	Туре - СМ	QUANTITY	Wt/Vol.	WASTE
	b. i	An Arrow State of the second state of the seco	60° - 443 70 - 5 50° 944 - 4 - 14 - 14 - 16	- • 🔤		**** <u>}##</u>	1127 - 1128 - 1127	\$-"°
E	C					v		
Ŕ	± WT 52160	·						
A	12. COMMENTS OR SPECIAL INSTRUCTIONS: 13. WASTE PROFILE						ROFILE N	0. ,
T	IN'CASE OF EMERGENCY OR SPILL, CONTACT NAME PHONE NO 24-HOUR EMERGENCY NO. 230E:ONTIVEROS 24-HOUR EMERGENCY NO.							
0	15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by pro- shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, I							
R	PRINTED/TYPED NAME		SIGNATURE					DATE
T R	16. TRANSPORTER (1)		17.	TR	ANSPO	RTER (2)		
R A N	1 N	<u>L'S</u>	17. NAME: TEXAS LD. NO.	TR	ANSPO	RTER (2)		
R A N S P	16. TRANSPORTER (1) NAME: TEXAS I.D. NO.		NAME: TEXAS LD. NO.					
R A N S P O R	16. TRANSPORTER (1) NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT:	TRON TODD	NAME: TEXAS LD. NO.	RGENCY	CONTAC	Л:	eccint of m	aterial
R A N S P O R T E R	16. TRANSPORTER (1) NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:	TRON TODD	NAME: TEXAS LD. NO.	RGENCY <u>ONE:</u> CTER (CONTAC	л:	eccipt of m	aterial
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R A N S P O R T E R S D F I A S C P I	16. TRANSPORTER (1) NAME: TEX.MEX.RENTA TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of PRINTED/TYPED NAME Holly SIGNATURE Holly	ADDRESS: Mile 30 N	NAME: TEXAS LD. NO. IN CASE OF EME EMERGENCY PH 19. TRANSPOH PRINTED/TYPED	RGENCY ONE: XTER (NAME S. Hwy	2): Ackno 2): Ackno 9 9 62/18	T: wiedgment of m D PHONE:	ATE	
R A N S P O R T E R S D F A S C	16. TRANSPORTER (1) NAME: TEX.MEX.RENTA TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: TEX.(57) 18. TRANSPORTER (1): Acknowledgment of the second	ADDRESS: Mile 30 N ICO	NAME: TEXAS LD. NO. IN CASE OF EME EMERGENCY PH 19. TRANSPOH PRINTED/TYPED 2000 VATURE Marker 64, U.S Ailes East of Ca 20. COMMENTS	RGENCY ONE: TTER (NAME S. Hwy rlsbad	2): Ackno 2): Ackno y 62/18 , NM	T: wiedgment of m D PHONE: 0,	ATE 575-88'	7-4048

	Page 144 of 159
INVOICE #	31200
Date:	6/15/2022
AFE Number:	
Charge to:	Karlsbad Corral SWD 2
Rea:	JR Curtis
Date(s) of Service:	06/03/22 - 06/07/22
Manifest #:	156329, 156424,
	156531
Ship Via:	Tex-Mex Rentals
	Date: AFE Number: Charge to: Req: Date(s) of Service: Nanifest #:

Qty	U/M	Description	Unit Price	Total
95.04	Tons	Non-regulated & non-hazardous waste (soil)	\$20.00	\$1,900.80
		Landfill located at Carlsbad, NM		
1			Subtotal	\$1,900.80
TERMS:	NET 30		Sales tax rate	5.500%
			Sales tax	\$104.54
			Total	\$2,005.34

Make all checks payable to LEA LAND, LLC

If you have any questions concerning this invoice, please contact: Shelley Denton at 405-249-1667, E-mail: shelley@lealandllc.com

Thank you for your business!

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÷	?5	AMILE MARKER #64 US HWY 62/180 • 30 MILES					KIC	0	
ľ		100 E	ND, LLC			/	x M	ex	
ĺ	NO	N-HAZARDOUS WASTE MANIFEST NO 1	56329	1. PA	GEOF_	2. TRAII	LER NO.	29	
	G	3. COMPANY NAME CONTANGO RESOURCES PHONE NO.	re, Suite 2900	383	ZIP 6. T	ICK-UP DATE			
ł	E.	7. NAME OR DESCRIPTION OF WASTE SHIPPED:			002 jini	9. TOTAL	10. UNIT	11. TEXAS	
	N	^a Non-Regulated, Non Hazardous Waste	······································	HU.	Type	QUANTITY	Wt/Vol.	WASTE ID #	
	E	b			*			·····	
ŧ	R	#WT:::53770							
	A	12. COMMENTS OR SPECIAL INSTRUCTIONS: 13. WASTE PROFILE NO.							
£	T	IA. IN CASE OF EMERGENCY OR SPILL, CONTACT NAME PHONE NO 24-HOUR EMERGENCY NO. 24-HOUR EMERGENCY NO.							
	0	15.GENERATOR'S CERTIFICATION: I Hereby declare that shipping name and are classified, packed, marked; and labeled, and are in al international and national government regulations, including applicable sta	Il festiects in proper coi	ndition for	r transnort i	w hiphway acc	opting to er	alicable	
	<u>R</u> .	PRINTED/TYPED NAME	SIGNATURE					DATE	
	T R A N S P	16. TRANSPORTER (1) NAME: TEX MEX RENTALS TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: RON.TODD	17. NAME: TEXAS I.D. NO.			RTER (2)			
	O R T	EMERGENCY PHONE: [575] 492-0888	EMERGENCY PHO 19. TRANSPOR	ONE:			ceipt of m	aterial	
	E R S	PRINTED/TYPED NAME HOLLY SOSA	PRINTED/TYPED	NAME_			48		
			Marker 64, U.S.	-		PHONE:	<u>ате</u> 575-881	7-4048	
1	A C C I D L	PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS	(*****				• • • •	
) L 5 I 1 T	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby c facility is authorized and permitted to receive such wastes.	ertify that the above de	escribed w	astes were	delivered to thi	is facility, tļ	hat the	
- I -	Ŷ	AUPHORIZED SIGNATURE	CELL NO.	1. <u>1.</u> 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	DATE	F6/3/2022	TIM 3	≣	
		ATOR: COPIES 1 & 6 DISPOSAL SITE to Imaging: 5/26/2023 9:44:42 AM	E COPIES 2 & 3	•	· · · · · · · · · · · · · · · · · · ·	TRANSPO	ORTERS: C	OPIES 4 & 5	

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	LEA LAND DISPO MILLE MARKER #64 US HWY 62/180	30 MILES EAST OF CARLSBA	D, NM • I	HONE (57	(5) 887-4048			
	1300 WEST MAIN STREET • O	A LAND, LLC KLAHOMA CITY, OK 73106 •	PHONE (405) 236-4 [;]	257 e	×N	lex	
NON	-HAZARDOUS WASTE MANIFEST	№ 156424	1. PA	ge <u>`</u> of_	2. TRAIL	ER NO.	#29	
	PHONE NO.	ESS Texas Ave, Suite 2900 STATE ton 254 5	:	ZIP 6. 1	TCK-UP DATE		•	
-E. :	7. NAME OR DESCRIPTION OF WASTE SHIPPED:			TAINERS	9. TOTAL OUANTITY	10: UNIT Wt/Vol.	11. TEXA WASTE ID	
N ¹	Non-Regulated Non Hazardous Waste		1	Type CM		WUVUL.	MASIE IL	
_	b				•			
E	C							
R R	43020 43020							
A	12. COMMENTS OR SPECIAL INSTRUCTIONS:	89940			13. WASTE P	ROFILE N	0.	
		EMERGENCY OR SPIL	L, COI	TACT				
T. Time	NAME PHONE NO 24-HOUR EMERGENCY NO.							
0	15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC							
R	PRINTED/TYPED NAME	SIGNATURE	SIGNATURE DATE					
	COMANTIRECURTIS	Sickentorid				•	DATE	
T	16. TRANSPORTER (1)	. 17.	TF	ANSPO	ORTER (2)	•	DATE	
R A	16. TRANSPORTER (1) NAME: TEX MEX RENTALS	. 17. NAME:	T	ANSPO	PRTER (2)	•	DATE	
R A N S	16. TRANSPORTER (1) NAME: TEX MEX RENTALS	. 17. NAME: TEXAS I.D. NO.	2		3	· .	· · ·	
R A N S P O	16. TRANSPORTER (1) NAME: TEX MEX RENTALS TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: CONTAC	17. NAME: TEXAS I.D. NO. N TODD IN CASE OF EMD 2888 5 1 EMERGENCY PR	ERGENC	' Y CONTAC	,	· ·	· . · . · .	
R A N S P O R T	16. TRANSPORTER (1) NAME: TEX.MEX.RENTALS TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: IN CASE OF EMERGENCY CONTACT: (575) 492-6 EMERGENCY PHONE: (575) 492-6 18. TRANSPORTER (1): Acknowledgment of receipt of	17. NAME: TEXAS I.D. NO. NTODD<: IN CASE OF EMD	ergenc Hone: RTER (' CONTAC	,	-	······································	
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R A N S P O R T E R S D F I A S P I L S I A T S P O R T E R S T E R S P O R T E R S P O R T E R S P O R T E R S P O R T E R S R S P O R T E R S P O R T E R S R S P O R T E R S R S P O R T E R S R S R S R S R S R S R S R S R S R	16. TRANSPORTER (1) NAME: TEXMEX.RENTALS: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: IN CASE OF EMERGENCY CONTACT: IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: (575) 492-0 18. TRANSPORTER (1): Acknowledgment of receipt of PRINTED/TYPED NAME/ HOLU SOC SIGNATURE In DATE Lea Land, LLC ADDR PERMIT NO. In DATE	17. NAME: TEXAS I.D. NO. N TODD M TODD M CASE OF EMD EMERGENCY PH 19. TRANSPO PRINTED/TYPE ESS: Mile Marker 64, U 30 Miles East of C 20. COMMENTS	ERGENC HONE: RTER (D NAME S. Hw arlsbac	Y CONTAC (2): Ackno (2): 4 (2)	TT: weledgment of r D PHONE:	DATE	naterial	
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		LAND, LLC	*	1		
	1300 WEST MAIN STREET • OK	•	PHONE (405) 236-4	257 E	<u>x M</u>	EX
NO	N-HAZARDOUS WASTE MANIFEST	NO 156531	1. PAGEOF	2. TRAII	LER NO	#28
G.	3. COMPANY NAME CONTANGO RESOURCES	ss Texas Ave, Suite 2900	5.1	PICK-UP DATE	-	
'E -	PHONE NO. 1 (713).236-7400	STATE	333	NRCC I.D. NO), '';	
14.2	7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8	8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	II. TEX
N	a. Non-Regulated, Non Hazardous Waste	ERCELL CONTRACTOR				,
E	b. / j					
Ľ	C. ,					
R	d. WT: 48020	· ·				
A	12. COMMENTS OR SPECIAL INSTRUCTIONS: ~ KARLSBAD CORRAL SWD # 2]]		3	13. WASTE P	ROFILE NO). •
4.8		MERGENCY OR SPIL	L, CONTACT			
- <u>T</u>				24-HOUR	EMERGEN	NCY NO.
0	15.GENERATOR'S CERTIFICATION: 1 Hereby de shipping name and are classified, packed, marked, and labeled, an international and national government regulations, including app	d are in all respects in proper co	ndition for transport	by highway acc	cording to an	nlicable
R	PRINTED/TYPED NAME	SIGNATURE	*			DATE
Т	16. TRANSPORTER (1)	17.	TRANSPO	RTER (2)		
R A	NAME: TEX MEX RENTALS	NAME:	۵			
N S	TEXAS LD. NO.	TEXAS I.D. NO.				
	IN CASE OF EMERGENCY CONTACT:	N TODD IN CASE OF EME	RGENCY CONTAG	.T:	•	
P						
P O R	EMERGENCY PHONE:	DBBB . EMERGENCY PH		wledgment of r	eccipt of ma	aterial
P O	EMERGENCY PHONE:	DBBB . EMERGENCY PH	ONE: RTER (2): Ackno	wledgment of r	eccipt of m	nierial
P O R T E	EMERGENCY PHONE: (57.5) 492- 18. TRANSPORTER (1): Acknowledgment of receipt of	D888 <u>emergency ph</u> material 19. TRANSPOL	ONE: RTER (2): Ackno		eccipt of ma	aterial
P O R T E R	EMERGENCY PHONE: - (575) 492- 18. TRANSPORTER (1): Acknowledgment of receipt of PRINTED/TYPED NAME HOUL SOSE SIGNATURE DATE	D888 EMERGENCY PHO material 19. TRANSPOL PRINTED/TYPED 76/7/SIGRATURE SS:	ONE: RTER (2): Ackno NÁME	D PHONE:	DATE.	
P O R T E R S D F	EMERGENCY PHONE: (575) 492- 18. TRANSPORTER (1): Acknowledgment of receipt of PRINTED/TYPED NAME HULL SOSE SIGNATURE DATE -	D888 EMERGENCY PHO material 19. TRANSPOL PRINTED/TYPED	ONE: RTER (2): Ackno NÁME S. Hwy 62/18	D PHONE:		
P O R T E R S	EMERGENCY PHONE: - (575) 492- 18. TRANSPORTER (1): Acknowledgment of receipt of PRINTED/TYPED NAME HOUL SOSE SIGNATURE DATE	D888 EMERGENCY PHO material 19. TRANSPOL PRINTED/TYPED	ONE: RTER (2): Ackno NÁME S. Hwy 62/18	D PHONE:	DATE.	
P O R T E R S D F I A S C P I O L S I	EMERGENCY PHONE: (575) 492- 18. TRANSPORTER (1): Acknowledgment of receipt of PRINTED/TYPED NAME HULL SOSE SIGNATURE DATE - Lea Land, LLC	D888 EMERGENCY PHO EMERGENCY PHO 19. TRANSPOL PRINTED/TYPED 6/7/30824TURE SS: Mile Marker 64, U.3 30 Miles East of Ca 20. COMMENTS	ONE: RTER (2): Ackno NAME S. Hwy 62/18 urlsbad, NM	D PHONE:	575-88 [°]	
P O R T E R S D F I A S C P I O L	EMERGENCY PHONE: (575) 492- 18. TRANSPORTER (1): Acknowledgment of receipt of PRINTED/TYPED NAME HILL SCR SIGNATURE DATE - Lea Land, LLC PERMIT NO. 21.DISPOSAL FACILITY'S CERTIFICATION: 1	D888 EMERGENCY PHO EMERGENCY PHO 19. TRANSPOL PRINTED/TYPED 6/7/30824TURE SS: Mile Marker 64, U.3 30 Miles East of Ca 20. COMMENTS	ONE: RTER (2): Ackno NAME S. Hwy 62/18 urlsbad, NM	PHONE: 0, e delivered to th	575-88 [°]	7-4048 hat the

Received by OCD: 1/3	1/2023 9:04:48 AM
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LEA LAND, LLC

OIL FIELD WASTE LANDFILL

1300 W. MAIN STREET OKLAHOMA CITY, OK 73106

PHONE: 405-236-4257 FAX: 405-236-4261

Bill To: ACCOUNTS PAYABLE CONTANGO OIL & GAS COMPANY 717 TEXAS AVE., SUITE 2900 HOUSTON, TEXAS 77002

INVOICE # 31487

Date:8/3/2022AFE Number:Karlsbad Corral
SWD #2Req:JR CurtisDate(s) of Service:07/26/22 - 07/27/22Manifest #:158849, 158850,

Ship Via:

158849, 158850, 158920, 158921 Tex Mex Rentals

Qty	U/M	Description	Unit Price	Total
103.53	Tons	Non-regulated & non-hazardous waste (soil)	\$20.00	\$2,070.60
		Landfill located at Carlsbad, NM		
			Subtotal	\$2,070.60
TERMS:	NET 30		Sales tax rate	5.375%
			Sales tax	\$111.29
			Total	\$2,181.89

Make all checks payable to LEA LAND, LLC If you have any questions concerning this invoice, please contact:

Shelley Denton at 405-249-1667, E-mail: shelley@lealandllc.com

Thank you for your business!

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?58	LEA LAND DIS MILE MARKER #64 US HWY	POSAI	AST OF CARLSBA	D, NM • P	EW HONE (57:	ME2 5) 887-4048	KIC	0
	1300 WEST MAIN STR	LEA LA	ND, LLC					EV
NON	-HAZARDOUS WASTE MANIFI		8849	1. PA	GEOF_	2. TRAIL	ER NO.	37
· G	3. COMPANY NAME CONTANGO RESOURCES	4. ADDRESS 717 Texas Ave CITY	STATE		ZIP 6. TI	CK-UP DATE 7/26/2022		
E,	(713) 236-7400 7. NAME OR DESCRIPTION OF WASTE SHIPPED	<u>_Houston · · · · ·</u>);	··· TX ··	8. CONT	002	9. TOTAL	10. UNIT	11. TEXAS
N	^{a.} Non-Regulated, Non Hazardous Wast	e		No.	Турс СМ	QUANTITY	Wt/Voi. Y	WASTE ID #
E	c.							
* R	WT: 37860 368	60						
A .	12. COMMENTS OR SPECIAL INSTRUCTIONS: \neg KARLSBAD CORRAL SWD#2. $P P P P P P P P P P P P P P P P P P $							
т	14. IN CAS NAME JOE ONTIVEROS	SE OF EMERG PHONE NO 575-887-4048	ENCY OR SPIL	L, CON	TACT	24-HOUR	EMERGEI	NCY NO.
0	15.GENERATOR'S CERTIFICATION: I shipping name and are classified, packed, marked, and international and national government regulations, inc	labeled, and are in all	respects in proper co	indition fo	r transport l	w highway acc	ording to ar	policable
R	PRINTED/TYPED NAME		SIGNATURE		DATE			
Т	16. TRANSPORTER (1)		17. TRANSPORTER (2)					
R A N S	NAME: TEXAS I.D. NO.	<u>.9</u> % 55	NAME: TEXAS LD. NO.					
P O	IN CASE OF EMERGENCY CONTACT:	· RON TODD	IN CASE OF EME	ERGENCY	CONTAC	Т:		
R T	EMERGENCY PHONE: (576 18. TRANSPORTER (1): Acknowledgment of	receipt of material	EMERGENCY PH 19. TRANSPO		2): Acknow	vledgment of n	eccipt of m	aterial
E R S	PRINTED/TYPEDWARE CONCH	fa	PRINTED/TYPE	-				
<u> </u>	SIGNATIONE DE COLORA	ADDRESS:	2022NATURE			PHONE;	ATE	
DF	Lea Land, LLC	Mile	Marker 64, U. files East of Ca				575-88	7-4048
I A S C P I	PERMIT NO. WM-01-035 - New Mexi		20. COMMENTS					
O L S I A T	21.DISPOSAL FACILITY SCERTIFICA facility is authorized and permitted to receive such wa	ATION: I Hereby constes.	ertify that the above d	iescribed v	wastes were	delivered to th	is facility, t	hat the
LY	AUTHORIZER SIGNATURE	TUEROS	CELL NO.	-	DATE		TIN	™ ∧ 1 N
GENER	ATOK: COPIES 1 & 6 to Imaging: 5/26/2023 9:44:42 AM	DISPOSAL SITE	COPIES 2 & 3			7/28/2022 TRANSP		COPIES 4 & 5

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?58	258H MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048											
	1300 WEST MAIN ST		HOMA CITY,		PHONE ((405) 236-	4257	IEX	1 _{EX}			
NON	-HAZARDOUS WASTE-MANIF	EST NO	1588	50	1. PA	GE_OI	F 2. TRAD	LER NO.	29			
G	3. COMPANY NAME CONTANGO RESOURCES	4. ADDRESS ••717 Texas	s Ave, Suit	e 2900		, 5.	PICK-UP DATE 7/28/2022	-	`			
	PHONE NO.	CITY	STAT	5		ZIP 6.	TNRCC LD. NO).				
Ē	(713) 236-7400	Houston	·· ,	TX ·		7002	S 9. TOTAL	10. UNIT	11. TEXAS			
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			No.	Туре	QUANTITY	Wt/Vol.	WASTE ID #			
N ii	^{a.} Non-Regulated, Non Hazardous Was		a 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 -	ta Manazira di	1	ÇM		<u>ултур</u>				
E	с.			<u>.</u>		ļ						
1						ļ		·				
R	^d WT: 56860 32	440										
1	12. COMMENTS OR SPECIAL INSTRUCTIONS:	ē	- 1	0 M O	\sim		13. WASTE F	PROFILE N	0.			
A	· KARLSBAD CORRAL SWD#2		CL	45/1	<u>)</u>							
I .	14. IN CA NAME	SE OF EM	ERGENCY	OR SPIL	L, CO	NTACT		EMERGE	NCY NO			
T	JOE ONTIVEROS 575-887-4048											
0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, and international and national government regulations, in	d labeled, and ar	e in all respect	in proper co	ndition f	or transpo	rt by highway ac	cording to a	pplicable			
R	PRINTED/TYPED NAME		SIGNA	TURE					DATE ·			
	CO MAN: JR. CURTIS											
T	16. TRANSPORTER (1)		17.		TJ	RANSP	ORTER (2)					
A		LS	NAM	E;		-						
N S	TEXAS I.D. NO.		TEX	S I.D. NO.								
Р	IN CASE OF EMERGENCY CONTACT:	·· RON TO		SE OF EME	RGENC	Y CONT/	ACT:					
O R	EMERGENCY PHONE: -(578 18. TRANSPORTER (1): Acknowledgment of	5) 402-0000		IGENCY PH		(2): Ack	nowledgment of	receipt of m	aterial			
T E	PRINTED/TYPED ANTE NOVMA						..	•	-			
R S	NUK Cont		7/26/2022					DATE				
		ADDRESS:					PHONE:					
	Lea Land, LLC		Mile Mari	er 64, U.	S. Hw	ry 62/1			7-4048			
D F I A			30 Miles I		arlsbad	i, NM						
S C P I	PERMIT NO. WM-01-035 - New Mex	ico	20. CO	MMENTS								
O L S I A T	21. DISPOSAL FACILITY'S CERSIFIC facility is authorized and permitted to receive such w		reby certify th	it the above d	lescribed	wastes w	ere delivered to t	his facility,	that the			
	AUTHORIZED SIGNATURE	hile ras	1	L NO.	/	DA	TE 7/26/2022		ME 1			
GENER	ANOR: COPES 1 & 6 to Imaging: 5/26/2023 9:44:42 AM	*	L SITE; COPI	iS 2 & 3		1			COPIES 4 & 5			

?58	LEA LAND DISPO MILE MARKER #64 US HWY 62/180 • 3						KIC	0
	LEA 1300 WEST MAIN STREET • OF		ND, LLC CITY, OK 73106 • P	HONE (4	105) 236-42	57 1	x N	lex
NON	-HAZARDOUS WAS TE MANIFEST	мо 15	8920	I. PAG	GEOF_	2. TRAIL	ER NÓ.	31
G	*		, Suite 2900	۰.	•	CK-UP DATE 7/27/2022	7• 	•
E	PHONE NO. CITY (713) 238-7400 - Houst	ю л , '	STATE		ZIP 6. T CO2	NRCC I.D. NU	• 	
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:			8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
N. (2)	* Non-Regulated, Non Hazardous Waste	- -ग्रहण ज	an a state of the second s	1 	nin CMe The second	ан на на 91 окторија и 111		' <i></i>
E	c							
R	d.WT: 1, 35144)							
	12. COMMENTS OR SPECIAL INSTRUCTIONS: • KARLSBAD CORRAL SWD#2				13. WASTE P	ROFILE N	0.	
14. IN CASE OF EMERGENCY OR SPILL, CONTACT NAME								NCY NO.
T Second	- JOE ONTIVEROS	87-4048				~		
0	15.GENERATOR'S CERTIFICATION: I Hereby d shipping name and are classified, packed, marked, and labeled, a international and national government regulations, including ap	and are in all	respects in proper co	ndition fo	or transport	by highway acc	ording to a	pplicable
R	PRINTED/TYPED NAME	64	SIGNATURE					DATE
T	16. TRANSPORTER (1)		• 17.	TI	RANSPO	RTER (2)		
R A	NAME: TEX MEX RENTALS		NAME:					
N S	TEXAS I.D. NO.	2	TEXAS I.D. NO.		•			
P O	IN CASE OF EMERGENCY CONTACT:		IN CASE OF EME		Y CONTAG			•
R T	18. TRANSPORTER (1) Acknowledgment of receipt of		19. TRANSPO		(2): Acking	wledgment of	receipt of n	
ER	PRINTED/TYPED VANE NCODIE TICO	ta	PRINTED/TYPED) NAME	•			* <u>t</u>
S	SIGNATURE LED HU DATE	<u>··· / 7/2</u> 7	2022NATURE			I	DATE	
	ADDR					PHONE:		- 1910
D F	Lea Land, LLC		Marker 64, U. Ailes East of Ca			0,	575-88	37-4048
I A S C P I	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS					12
O L 8 I A T	27. DISPOSAL FACILITY'S CERTIFICATION facility is authorized and permitted to receive such wastes.	: I Hereby o	ertify that the above of	lescribed	wastes wer	e delivered to t	his facility,	that the
LY	AUTHORIZED SIGNATURE		CELL NO.	-	. DAT	E 7/27/2022		1145
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?58	LEA LAND DISPOSA MILE MARKER #64 US HWY 62/180 • 30 MILE					KIC	0 '		
	· LEA LA 1300 WEST MAIN STREET • OKLAHO	AND, LLC MA CITY, OK 73106 •	PHONE (405) 236-425	7	MIEX	, *··		
NON	-HAZARDOUS WASTE MANIFEST NO 1	58921	1. PA	GEOF	2. TRAIL		70		
G E	3. COMPANY NAME 4. ADDRESS	we, Suite 2900 STATE		· · 7	K-UP DATE //27/2022 RCC LD. NC	*	<u>, , , , , , , , , , , , , , , , , , , </u>		
2.000	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CON No.		9. TOTAL UANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #		
N	^{a.} Non-Regulated; Non Hazardous Waste	.*.	1	СМ	- 	У			
E	ь. с.								
R	dwr: 52680								
A **	12. COMMENTS OR SPECIAL INSTRUCTIONS: - KARLSBAD CORRAL SWD#2: 1	•	e	I	3. WASTE P	ROFILE NO	D.		
Т	T 14. IN CASE OF EMERGENCY OR SPILL, CONTACT NAME PHONE NO 24-HOUR EMERGENCY NO. JOE ONTIVEROS 575-987-4048								
o	15. GENERATOR'S CERTIFICATION: I Hereby declare th shipping name and are classified, packed, marked, and labeled, and are in international and national government regulations, including applicable	all respects in proper co	ondition fo	r transport by	highway acc	ording to at	mlicable		
R	PRINTED/TYPED NAME	SIGNATURE					DATE		
• • •	** CO MAN: JR: CURTIS::								
T R A N S P	16. TRANSPORTER (I) NAME: TEX:MEX RENTALS TEXAS I.D. NO. TEX SECONTACT: IN CASE OF EMERGENCY CONTACT: RON TOD	17. NAME: TEXAS I.D. NO. D IN CASE OF EMI		ANSPOR					
O R T	EMERGENCY PHONE: (575) 482-0888 18. TRANSPORTER (1): Acknowledgment of receipt of materia	EMERGENCY PI		(2): Acknowl	edgment of r	eccipt of m	aterial		
E R S	PRINTED/TYPED NAME NO MOR MOALS	PRINTED/TYPE	•			ATE			
	ADDRESS:				PHONE:				
D F I A	· · ·	le Marker 64, U <u>Miles East of C</u>				575-88	7-4048		
S C P I	PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS							
OL SI AJ	21.DISPOSAL FACILITY'S OERTIFICATION: I Hereb Fadility, is authorized and permitted to receive such wastes.	y certify that the above	described	wastes were d	elivered to th	is facility, t	hat the		
L(Y	AUTHORIZED SIGNATURE	CELL NO.		DATE	//27/2022	- TIN	50		
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Rece	vived by OCD:	· 1/31/2023 9:04:48 AM			Page 153 of 159
	LEA LA	ND, LLC	INVOICE #	31534	
	OIL FIELD	WASTE LANDFILL			
	1300 W. MAI	IN STREET	Date:	8/10/2022	
	OKLAHOMA	СГТҮ, ОК 73106			
			AFE Number:		
	PHONE:	405-236-4257	Channe tas	Kaalabad Carrol	
	FAX:	405-236-4261	Charge to:	Karlsbad Corral	SWU Z
	Bill To:		Reg:	JR Curtis	
	ACCOUNTS P	PAYABLE	-		
		OIL & GAS COMPANY	Date(s) of Service:	7/29/2022	
		VE., SUITE 2900			
	HOUSTON, T	EXAS 77002	Manifest #:	159050, 159051	
			Chin Vint	Toy May Destair	
			Ship Via:	Tex Mex Rentals	5

Qty	U/M	Description	Unit Price	Total
78.30	Tons	Non-regulated & non-hazardous waste (soil)	\$20.00	\$1,566.00
				98. -
		Landfill located at Carlsbad, NM		
			Subtotal	\$1,566.00
TERMS:	NET 30		Sales tax rate	5.375%
		*2	Sales tax	\$84.17
			Total	\$1,650.17

Make all checks payable to LEA LAND, LLC

If you have any questions concerning this invoice, please contact: Shelley Denton at 405-249-1667, E-mail: shelley@lealandllc.com

Thank you for your business!

* ?5	Bh MILE MARKER #64 US HWY 62						KIC	0
	1300 WEST MAIN STRE		ND, LLC CITY, OK 73106 • F	PHONE (4	05) 236-42	257	хM	EX
NOI	N-HAZARDOUS WASTE MANIFES	т. _{No} 15	9050	I. PAG	EOF_	2. TRAIL	ER NO.	.77
		ADDRESS			5. P	ICK-UP DATE		
G	l	717 Texas Ava TY	STATE	7	IP 6. T	7/29/2022 NRCC LD. NO		
E	191		****> aTX: *** -**		102	NACE LD. NO	•	
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:	•		8. CONT	AINERS	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
N	ⁿ Non-Regulated, Non Hazardous Waste		in a second second	No.	Type CM	QUANTITY	wuvoj. - 2020.yu	WASIEID#
	b.							
E	c							
, R	dwr. 79180 79	3101)						
	12. COMMENTS OR SPECIAL INSTRUCTIONS:		2			13. WASTE P	ROFILE N	D.
A	KARLSBAD-CORRAL-SWD#2	Tor	17800					•
T.	NAME .	C OF EMERG PHONE NO 575-887-4048	ENCY OR SPIL	L, CON	TACT	24-HOUR	EMERGE	NCY NO.
0	15.GENERATOR'S CERTIFICATION: I H shipping name and are classified, packed, marked, and la international and national government regulations, include	beled, and are in all	l respects in proper co	ndition for	transport	by highway acc	ording to a	oplicable
R	PRINTED/TYPED NAME CO MAN: JR. CURTIS		SIGNATURE				·	DATE
Т	16. TRANSPORTER (1)	18	17.	TR	ANSPO	RTER (2)		
R A	NAME:TEX MEX RENTALS	3	NAME: ·					
N	TEXAS I.D. NO.		TEXAS I.D. NO.					
S P	IN CASE OF EMERGENCY CONTACT:	RON:TODD	, IN CASE OF EME	RGENCY	CONTAC	.T:		
O R	EMERGENCY PHONE: (575)	192-0888 ····	EMERGENCY PH		7): Ackno	wiedement of r		aterial
T E	PRINTED/TYPED NAME DODIO. AL		PRINTED/TYPED	•	,	•	•	
R S	JULKN. UAAKY	α	2022NATURE			D	ATE	11
		ADDRESS:				PHONE:		
DF	Lea Land, LLC		Marker 64, U. files East of Ca	-		0, ·	575-88	7-4048
I A S C P I	WM-01-035 - New Mexico		20. COMMENTS		4 1414	ş 2	5	• 8342
O L S L A T	21-DISPOSAL FACILITY'S CERFIFICAT facility is authorized and permitted to receive such wast	CION: I Hereby c es.	crtify that the above d	lescribed v	vastes were	e delivered to th	nis facility, t	that the
	AUTHORIZED SIGNATURE	eros	CELL NO.		DATE	7/29/2022	TI	
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258H LEA LAND DISPOSAL SITE NEW MEXICO MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048										
LEA LAND, LLC 1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257										
NON-HAZARDOUS WASTE MANIFEST, NO. 159051 1. PAGE_OF_ 2. TRAILER NO. 29								29		
· G			4. ADDRESS 717 Texas Av	e, Suite 2900		* 5. P.	ICK-UP DATE 7/29/2022			
		PHONE NO.		*)	NRCC I.D. NO					
• • E		7. NAME OR DESCRIPTION OF WASTE SHIPPED	<mark>∴Houston ~</mark> D:	••••• • ••••	8. CON No.	TAINERS	9. TOTAL OUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #	
N	r	^a Non-Regulated, Non Hazardous Wast		- 1-	CM.	Quantini	У	TRATE D #		
E		b			-					
Ŕ	J	*WT:	344X) <u> </u>			13 WASTEP			
A	ج	12. COMMENTS OR SPECIAL INSTRUCTIONS:								
 1	•	NAME	PHONE NO	ENCY OR SPIL	L, COI	NTACT	24-HOUR	EMERGE	NCY NO.	
	•	"JOE ONTIVEROS 15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC								
F	٤	PRINTED/TYPED NAME		SIGNATURE					DATE	
\mathbf{H}		CO MAN: JR::CURTIS:	•						1 5	
I I R		16. TRANSPORTER (1) NAME:		17. NAME:	Tł	CANSPO	RTER (2)			
A N S	I	TEXAS I.D. NO.	<u>LS''.</u> 7583 -	TEXAS I.D. NO.					• •	
I F)	IN CASE OF EMERGENCY CONTACT: RON TODD . IN CASE OF EMERGENCY CONTACT:								
F	2	EMERGENCY PHONE:	· EMERGENCY PH		(2): Ackno	wledgment of i	receipt of m	aterial		
E F	٤	PRINTED/TYPED NAME								
8	5	SIGNAT TRE MAR MAR	2022NATURE		•	Ţ	ATE			
D	F	Lea Land, LLC		e Marker 64, U. Ailes East of Ca		*	0, PHONE:	575-88	7-4048	
I S P	A C I	PERMIT NO. WM-01-035 - New Mexi	20. COMMENTS	unsual	49 I 11VI	l.	•			
O S A	L I T	21. DISPOSAL FACILITY'S GENERIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility pauthorized and permittee to receive such wastes.								
L	X	AUTHORIZED SIGNATURE	IPros	CELL NO.		DATE	7/29/2022	- TI	D ^{ID}	
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APPENDIX G

Groundwater

Released to Imaging: 5/26/2023 9:44:42 AM

USGS Home Contact USGS Search USGS



National Water Information System: Web Interface

USGS Water Resources

 Data Category:
 Geographic Area:

 Groundwater
 V

 United States
 GO

Click to hideNews Bulletins

• See the Water Data for the Nation Blog for the latest news and updates.

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

Agency code = usgs site_no list = • 320739103584201

Minimum number of levels = 1 <u>Save file of selected sites</u> to local disk for future upload

USGS 320739103584201 25S.29E.15.31134

Eddy County, New Mexico Latitude 32°07'39", Longitude 103°58'42" NAD27 Land-surface elevation 3,017 feet above NAVD88 The depth of the well is 192 feet below land surface. This well is completed in the Other aquifers (N99990THER) national aquifer. This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1983-02-01		D	62610		2875.02	NGVD29	1	:	Z	
1983-02-01		D	62611		2876.60	NAVD88	1	1	Z	
1983-02-01		D	72019	140.40			1	:	Z	
1987-10-20		D	62610		2875.09	NGVD29	1	:	Z	
1987-10-20		D	62611		2876.67	NAVD88	1	:	Ζ	
1987-10-20		D	72019	140.33			1	1	Ζ	
1992-11-06		D	62610		2874.61	NGVD29	1	:	S	
1992-11-06		D	62611		2876.19	NAVD88	1	:	S	
1992-11-06		D	72019	140.81			1	:	5	
1998-01-29		D	62610		2874.52	NGVD29	1	:	S	
1998-01-29		D	62611		2876.10	NAVD88	1	:	S	
1998-01-29		D	72019	140.90			1		S	

Explanation				
Section	Code	Description		
Water-level date-time accuracy	D	Date is accurate to the Day		

USGS Groundwater for USA: Water Levels -- 1 sites

Page 158 of 159

Section	Code	Description
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	А	Approved for publication Processing and review completed.

<u>Questions about sites/data?</u> <u>Feedback on this web site</u> <u>Automated retrievals</u> <u>Help</u> <u>Data Tips</u> <u>Explanation of terms</u> <u>Subscribe for system changes</u> <u>News</u>

 Accessibility
 FOIA
 Privacy
 Policies and Notices

 U.S. Department of the Interior
 | U.S. Geological Survey

 Title:
 Groundwater for USA:
 Water Levels

 URL:
 https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2023-01-13 11:12:23 EST 0.28 0.25 nadww01



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District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Operator:	OGRID:
Contango Resources, LLC	330447
111 E. 5TH STREET	Action Number:
FORT WORTH, TX 76102	181066
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By Condition Condition Date We have received your closure report and final C-141 for Incident #NAPP2214547419 KARLSBAD CORRAL SWD 2, thank you. This closure is approved. 5/26/2023 rhamlet Please be advised that if the final confirmation sample depths in the future aren't labelled properly on the table, the report will be immediately denied.

CONDITIONS

Action 181066