Form C-141
Page 6

State of New Mexico
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.***

1/31/23

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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

Printed Name: 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

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

Closure Approved by: Robert Hamlet Date: 5/26/2023

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

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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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.

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 (yd^3) 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 (yd^3) 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) yd^3 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 third-party 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 locations AH 4 through AH 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) yd^3 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

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.

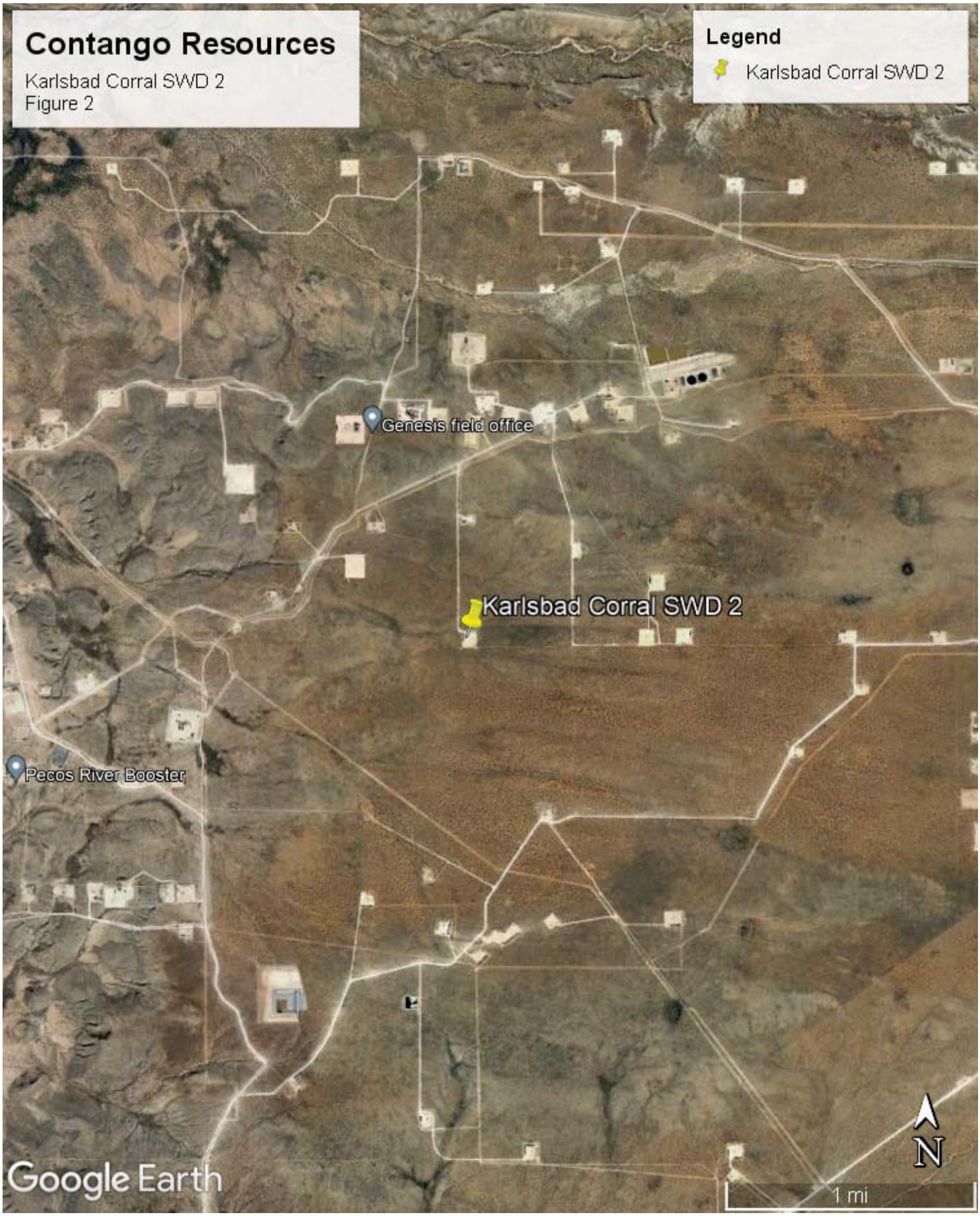
Those response actions which are affirmed by laboratory analytical results do not need further remediation and the facility can be returned to operation.

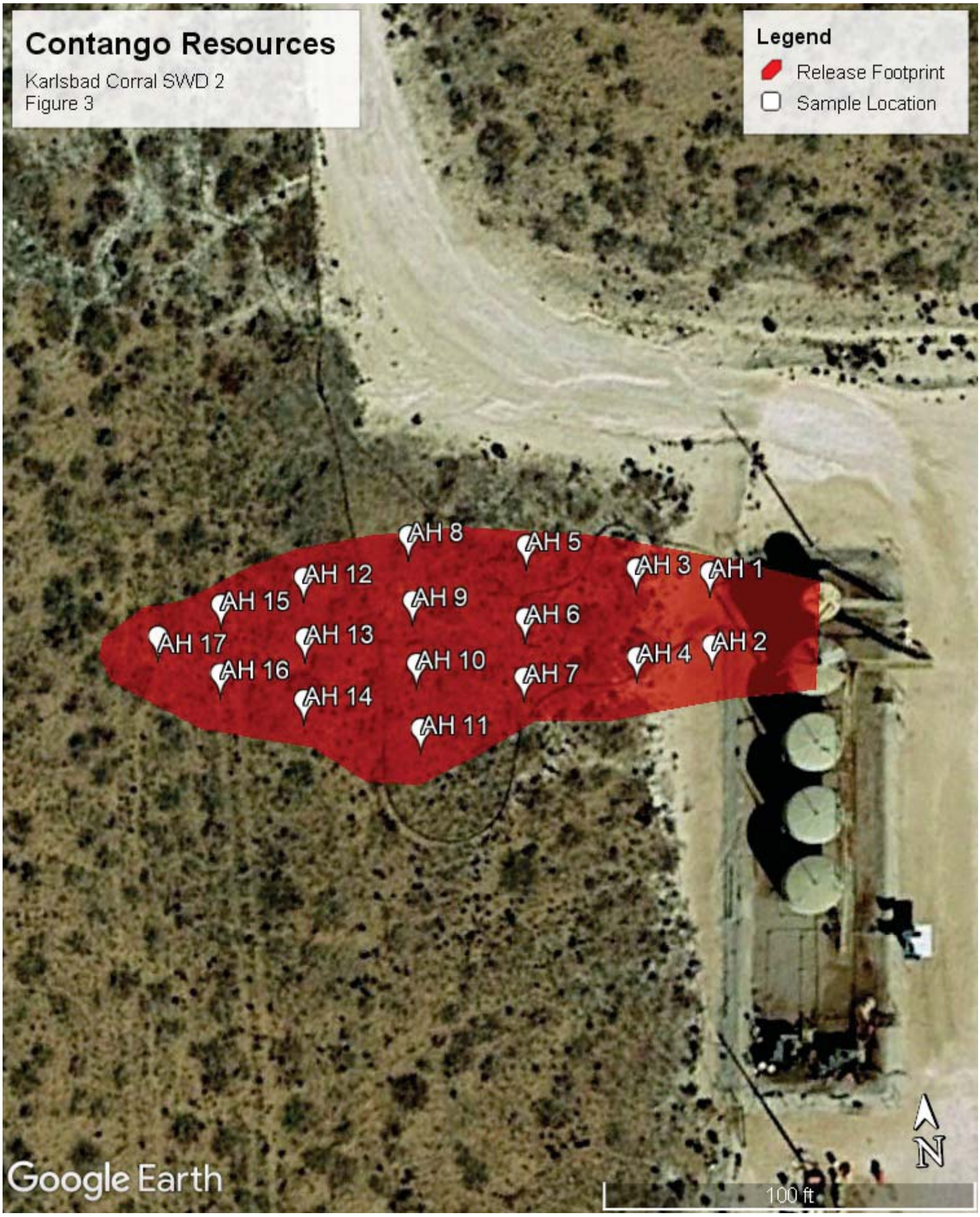
Copies of the Initial and Final C-141 are provided in Appendix E.

APPENDIX A

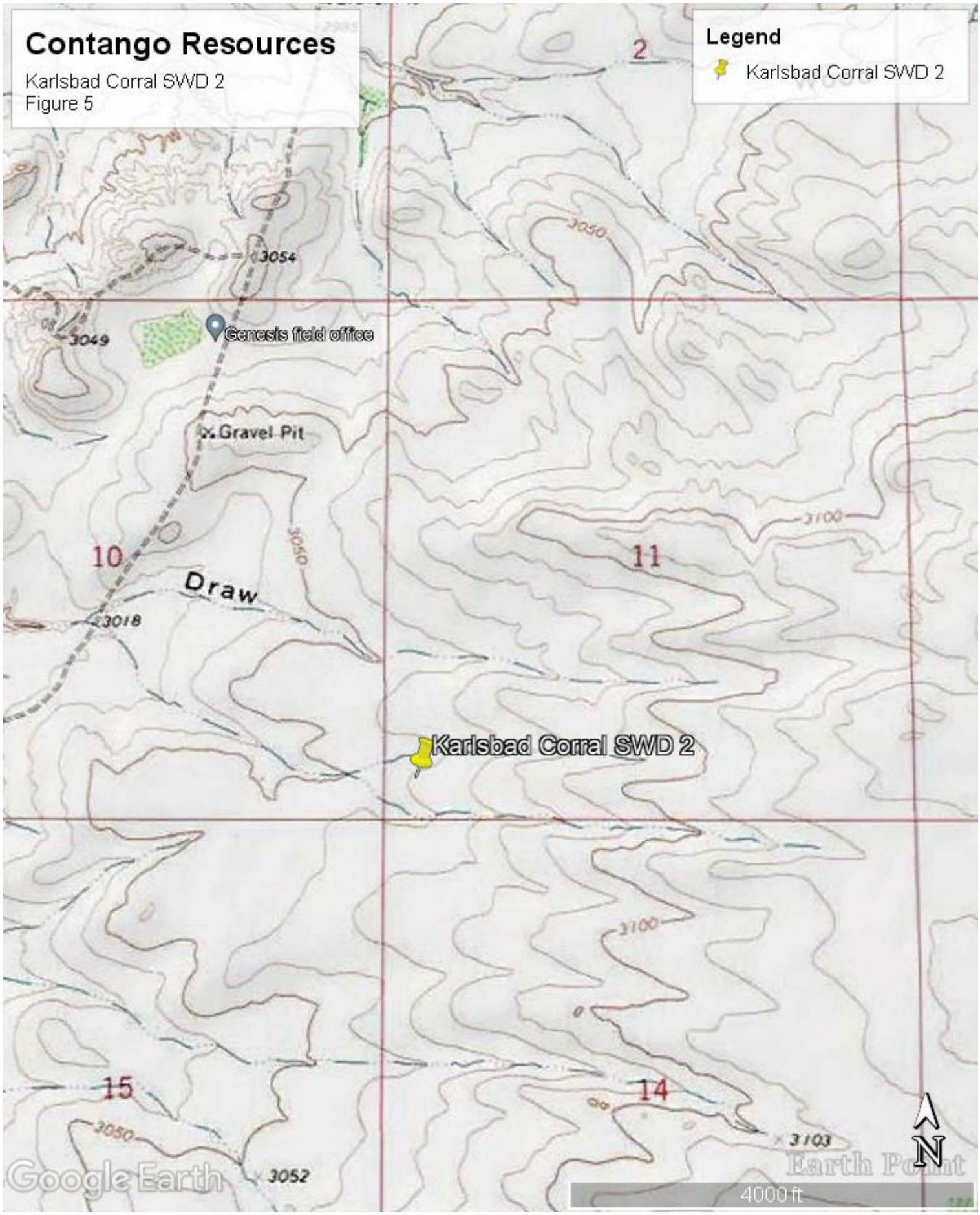
Figures


Contango Resources
Karlsbad Corral SWD 2
Figure 1
Legend
Karlsbad Corral SWD 2
Malaga
Karlsbad Corral SWD 2
285
N
Google Earth
5 mi


Contango Resources
Karlsbad Corral SWD 2
Figure 2
Legend
Karlsbad Corral SWD 2
Genesis field office
Karlsbad Corral SWD 2
Pecos River Booster
Google Earth
N
1 mi


Contango Resources
Karlsbad Corral SWD 2
Figure 3
Legend
Release Footprint
Sample Location
AH 8
AH 5
AH 3
AH 1
AH 12
AH 15
AH 9
AH 6
AH 17
AH 13
AH 10
AH 4
AH 2
AH 16
AH 7
AH 14
AH 11
Google Earth
100 ft
N


Contango Resources
Karlsbad Corral SWD 2
Figure 4
Legend
Excavated Area
Release Footprint
Sample Location
SW 14
SW 11
SW 8
SW 15
H5
H3
H1
H12
H9
H6
H4
H2
H7
SW 13
SW 10
Google Earth
100 ft
N


Contango Resources
Karlsbad Corral SWD 2
Figure 5
Legend
Karlsbad Corral SWD 2
Genesis field office
Gravel Pit
Draw
Karlsbad Corral SWD 2
3054
3049
3050
3018
3100
3103
3052
10
11
14
15
2
N
Google Earth
4000 ft


Contango Resources
Karlsbad Corral SWD 2
Figure 6
Legend
Distance
Locations
Karlsbad Corral SWD 2
1.18 mi
USGS 320739103584201 25S.29E.15.31134
Google Earth
N
4000 ft

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 Location	Sample Date	Sample Depth (feet)	Soil Status	EPA 300	8015M				8021B				
				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)
NMAC 19.15.29				600	NE	NE	NE	100	10	NE			50
Confirmation Sampling													
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	6/23/2022	1'-1.5'	Excavated	**4,680**	–	–	–	–	–	–	–	–	–
Augar Hole 1	6/23/2022	1.5'-2'	Excavated	**2,220**	–	–	–	–	–	–	–	–	–
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**	–	–	–	–	–	–	–	–	–
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	<0.00398
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	<0.00398
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	6/23/2022	2'-2.5'	Excavated	**2,100**	–	–	–	–	–	–	–	–	–
Augar Hole 2	6/23/2022	2.5'-3'	Excavated	**1,950**	–	–	–	–	–	–	–	–	–
Augar Hole 2	6/23/2022	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	<0.00399
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	0.801
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	<0.00398
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	<0.00398
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	<0.00399
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	<0.00397
Augar Hole 8	6/23/2022	1'-1.5'	In-Situ	19.4	–	–	–	–	–	–	–	–	–
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	<0.00401
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	<0.00401
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	<0.00399
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	<0.00398
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	<0.00401
Augar Hole 13	6/23/2022	1'-1.5'	In-Situ	7.66	–	–	–	–	–	–	–	–	–
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	0.00435
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	<0.00399
Augar Hole 16	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	<0.00398
Augar Hole 17	6/23/2022	0-0.5'	In-Situ	9.52	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398

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

Sample Location	Sample Date	Sample Depth (feet)	Soil Status	EPA 300	8015M				8021B				
				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)
NMAC 19.15.29				600	NE	NE	NE	100	10	NE			50
Confirmation Sampling													
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

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.

Contango

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.

Contango

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

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

Contango

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

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

Contango

View East – Remediation activities (backfill) completed.

View East – Remediation activities (backfill) completed.

Contango

APPENDIX D

Laboratory Analysis

eurofins | 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

JKramer

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.

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

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

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Definitions/Glossary

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

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
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
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MDL	Method Detection Limit
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
PQL	Practical Quantitation Limit
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. Job ID: 880-16308-1
Project/Site: Contango-Karlsbad Corral SWD 2 SDG: Eddy Co NM

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.

Client Sample Results

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

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

Client Sample ID: Augar Hole 1

Lab Sample ID: 880-16308-1
Matrix: Solid
Date Collected: 06/23/22 10:00
Date Received: 06/24/22 16:40
Sample Depth: 0.0'-0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
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	0.858	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 (DRO) (GC)

Analyte	Result	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 (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1290		249		mg/Kg		06/27/22 09:45	06/28/22 03:42	5
Diesel Range Organics (Over C10-C28)	6250		249		mg/Kg		06/27/22 09:45	06/28/22 03:42	5
Oil 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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4280		24.9		mg/Kg			07/02/22 06:28	5

Client Sample ID: Augar Hole 1

Lab Sample ID: 880-16308-2
Matrix: Solid
Date Collected: 06/23/22 10:05
Date Received: 06/24/22 16:40
Sample Depth: 0.5'-1.0

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2610		24.9		mg/Kg			07/02/22 06:52	5

Client Sample Results

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

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

Client Sample ID: Augar Hole 1
Lab Sample ID: 880-16308-3
Date Collected: 06/23/22 10:10
Matrix: Solid
Date Received: 06/24/22 16:40
Sample Depth: 1.0'-1.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	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
Lab Sample ID: 880-16308-4
Date Collected: 06/23/22 10:15
Matrix: Solid
Date Received: 06/24/22 16:40
Sample Depth: 1.5'-2.0

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2220		25.2		mg/Kg			07/02/22 07:08	5

Client Sample ID: Augar Hole 1
Lab Sample ID: 880-16308-5
Date Collected: 06/23/22 10:20
Matrix: Solid
Date Received: 06/24/22 16:40
Sample Depth: 2.0'-2.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1770		25.1		mg/Kg			07/02/22 07:16	5

Client Sample ID: Augar Hole 1
Lab Sample ID: 880-16308-6
Date Collected: 06/23/22 10:25
Matrix: Solid
Date Received: 06/24/22 16:40
Sample Depth: 2.5'-3.0

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3030		24.9		mg/Kg			07/02/22 07:23	5

Client Sample ID: Augar Hole 1
Lab Sample ID: 880-16308-7
Date Collected: 06/23/22 10:30
Matrix: Solid
Date Received: 06/24/22 16:40
Sample Depth: 3.0'-3.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	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
Lab Sample ID: 880-16308-8
Date Collected: 06/23/22 10:35
Matrix: Solid
Date Received: 06/24/22 16:40
Sample Depth: 3.5'-4.0

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1910		25.2		mg/Kg			07/02/22 07:39	5

Client Sample Results

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

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

Client Sample ID: Augar Hole 1

Lab Sample ID: 880-16308-9
Matrix: Solid
Date Collected: 06/23/22 10:40
Date Received: 06/24/22 16:40
Sample Depth: 4.0'-4.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1950	F1	25.1		mg/Kg			07/02/22 15:26	5

Client Sample ID: Augar Hole 2

Lab Sample ID: 880-16308-10
Matrix: Solid
Date Collected: 06/23/22 10:45
Date Received: 06/24/22 16:40
Sample Depth: 0.0'-0.5

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		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	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/27/22 16:24	07/01/22 00:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/27/22 16:24	07/01/22 00:29	1
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 Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*06/27/22 16:24*	*07/01/22 00:29*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/27/22 16:24*	*07/01/22 00:29*	*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 (DRO) (GC)

Analyte	Result	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 Range Organics (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		06/27/22 09:45	06/27/22 22:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/27/22 09:45	06/27/22 22:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/27/22 09:45	06/27/22 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*06/27/22 09:45*	*06/27/22 22:44*	*1*
o-Terphenyl	*107*		*70 - 130*	*06/27/22 09:45*	*06/27/22 22:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6220		49.8		mg/Kg			07/02/22 15:50	10

Client Sample Results

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

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

Client Sample ID: Augar Hole 2

Lab Sample ID: 880-16308-11
Matrix: Solid
Date Collected: 06/23/22 10:50
Date Received: 06/24/22 16:40
Sample Depth: 0.5'-1.0

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		06/27/22 16:24	07/01/22 00:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/27/22 16:24	07/01/22 00:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/27/22 16:24	07/01/22 00:49	1
m-Xylene & p-Xylene	<0.00398	U	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 (DRO) (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 Range Organics (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		06/27/22 09:45	06/27/22 23:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/27/22 09:45	06/27/22 23:49	1
Oil 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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3930**		24.8		mg/Kg			07/02/22 15:58	5

Client Sample ID: Augar Hole 2

Lab Sample ID: 880-16308-12
Matrix: Solid
Date Collected: 06/23/22 10:55
Date Received: 06/24/22 16:40
Sample Depth: 1.0'-1.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4260**		25.0		mg/Kg			07/02/22 16:05	5

Client Sample Results

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

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

Client Sample ID: Augar Hole 2
Lab Sample ID: 880-16308-13
Matrix: Solid
Date Collected: 06/23/22 11:00
Date Received: 06/24/22 16:40
Sample Depth: 1.5'-2.0

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3230		24.9		mg/Kg			07/02/22 16:13	5

Client Sample ID: Augar Hole 2
Lab Sample ID: 880-16308-14
Matrix: Solid
Date Collected: 06/23/22 11:05
Date Received: 06/24/22 16:40
Sample Depth: 2.0'-2.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	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
Lab Sample ID: 880-16308-15
Matrix: Solid
Date Collected: 06/23/22 11:10
Date Received: 06/24/22 16:40
Sample Depth: 2.5'-3.0

Method: 300.0 - Anions, Ion Chromatography - 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
Lab Sample ID: 880-16308-16
Matrix: Solid
Date Collected: 06/23/22 11:15
Date Received: 06/24/22 16:40
Sample Depth: 3.0'-3.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2490		25.2		mg/Kg			07/02/22 16:53	5

Client Sample ID: Augar Hole 2
Lab Sample ID: 880-16308-17
Matrix: Solid
Date Collected: 06/23/22 11:20
Date Received: 06/24/22 16:40
Sample Depth: 3.5'-4.0

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	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 Sample ID: 880-16308-18
Matrix: Solid
Date Collected: 06/23/22 11:25
Date Received: 06/24/22 16:40
Sample Depth: 4.0'-4.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2700		24.8		mg/Kg			07/02/22 17:08	5

Client Sample Results

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

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

Client Sample ID: Augar Hole 3

Date Collected: 06/23/22 11:30
Date Received: 06/24/22 16:40
Sample Depth: 0.0'-0.5

Lab Sample ID: 880-16308-19

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

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 01:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/27/22 16:24	07/01/22 01:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/27/22 16:24	07/01/22 01:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/27/22 16:24	07/01/22 01:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/27/22 16:24	07/01/22 01:10	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/27/22 16:24	07/01/22 01:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*06/27/22 16:24*	*07/01/22 01:10*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*06/27/22 16:24*	*07/01/22 01:10*	*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 Organics (DRO) (GC)

Analyte	Result	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 Range Organics (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		06/27/22 09:45	06/28/22 00:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/27/22 09:45	06/28/22 00:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/27/22 09:45	06/28/22 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*06/27/22 09:45*	*06/28/22 00:10*	*1*
o-Terphenyl	*112*		*70 - 130*	*06/27/22 09:45*	*06/28/22 00:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**697**		4.95		mg/Kg			07/02/22 17:16	1

Client Sample ID: Augar Hole 3

Date Collected: 06/23/22 11:35
Date Received: 06/24/22 16:40
Sample Depth: 0.0'-0.5

Lab Sample ID: 880-16308-20

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**704**		5.00		mg/Kg			07/02/22 17:40	1

Client Sample Results

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

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

Client Sample ID: Augar Hole 4

Lab Sample ID: 880-16308-21
Matrix: Solid
Date Collected: 06/23/22 11:40
Date Received: 06/24/22 16:40
Sample Depth: 0.0'-0.5

Method: 8021B - Volatile Organic Compounds (GC)

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 01:30	1
Toluene	0.0385		0.00200		mg/Kg		06/27/22 16:24	07/01/22 01:30	1
Ethylbenzene	0.247		0.00200		mg/Kg		06/27/22 16:24	07/01/22 01:30	1
m-Xylene & p-Xylene	0.229		0.00401		mg/Kg		06/27/22 16:24	07/01/22 01:30	1
o-Xylene	0.286		0.00200		mg/Kg		06/27/22 16:24	07/01/22 01:30	1
Xylenes, Total	0.515		0.00401		mg/Kg		06/27/22 16:24	07/01/22 01:30	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 BTEX 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

Method: 8015 NM - Diesel Range Organics (DRO) (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 Range Organics (DRO) (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
Oil 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 Chromatography - 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 Hole 4

Lab Sample ID: 880-16308-22
Matrix: Solid
Date Collected: 06/23/22 11:45
Date Received: 06/24/22 16:40
Sample Depth: 1.0'-1.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	237		4.97		mg/Kg			07/02/22 18:11	1

Client Sample Results

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

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

Client Sample ID: Augar Hole 5

Date Collected: 06/23/22 11:50
Date Received: 06/24/22 16:40
Sample Depth: 0.0'-0.5

Lab Sample ID: 880-16308-23
Matrix: Solid

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		06/27/22 16:24	07/01/22 01:51	1
Toluene	**0.00224**		0.00199		mg/Kg		06/27/22 16:24	07/01/22 01:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/27/22 16:24	07/01/22 01:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/27/22 16:24	07/01/22 01:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/27/22 16:24	07/01/22 01:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/27/22 16:24	07/01/22 01:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*06/27/22 16:24*	*07/01/22 01:51*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*06/27/22 16:24*	*07/01/22 01:51*	*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 (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**56.1**		50.0		mg/Kg			06/28/22 10:27	1

Method: 8015B NM - Diesel Range Organics (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		06/27/22 09:45	06/28/22 05:48	1
Diesel Range Organics (Over C10-C28)	**56.1**		50.0		mg/Kg		06/27/22 09:45	06/28/22 05:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/27/22 09:45	06/28/22 05:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*06/27/22 09:45*	*06/28/22 05:48*	*1*
o-Terphenyl	*95*		*70 - 130*	*06/27/22 09:45*	*06/28/22 05:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.5**		5.03		mg/Kg			07/02/22 18:19	1

Client Sample ID: Augar Hole 5

Date Collected: 06/23/22 11:55
Date Received: 06/24/22 16:40
Sample Depth: 1.0'-1.5

Lab Sample ID: 880-16308-24
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25.1**		5.01		mg/Kg			07/02/22 18:27	1

Client Sample Results

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

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

Client Sample ID: Augar Hole 6

Lab Sample ID: 880-16308-25
Matrix: Solid
Date Collected: 06/23/22 12:00
Date Received: 06/24/22 16:40
Sample Depth: 0.0'-0.5

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		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 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 (DRO) (GC)

Analyte	Result	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 Range Organics (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		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
Oil 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	*116*		*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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25.2**		5.02		mg/Kg			07/02/22 18:35	1

Client Sample ID: Augar Hole 6

Lab Sample ID: 880-16308-26
Matrix: Solid
Date Collected: 06/23/22 12:05
Date Received: 06/24/22 16:40
Sample Depth: 1.0'-1.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**37.5**		4.99		mg/Kg			07/02/22 18:42	1

Client Sample Results

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

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

Client Sample ID: Augar Hole 7

Lab Sample ID: 880-16308-27
Matrix: Solid
Date Collected: 06/23/22 12:10
Date Received: 06/24/22 16:40
Sample Depth: 0.0'-0.5

Method: 8021B - Volatile Organic Compounds (GC)

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 02:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/27/22 16:24	07/01/22 02:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/27/22 16:24	07/01/22 02:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/27/22 16:24	07/01/22 02:32	1
o-Xylene	**0.00211**		0.00200		mg/Kg		06/27/22 16:24	07/01/22 02:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/27/22 16:24	07/01/22 02:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*06/27/22 16:24*	*07/01/22 02:32*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*06/27/22 16:24*	*07/01/22 02:32*	*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 Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1310**		49.9		mg/Kg			06/28/22 10:27	1

Method: 8015B NM - Diesel Range Organics (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		06/27/22 09:45	06/28/22 04:45	1
Diesel Range Organics (Over C10-C28)	**1160**		49.9		mg/Kg		06/27/22 09:45	06/28/22 04:45	1
Oil Range Organics (Over C28-C36)	**145**		49.9		mg/Kg		06/27/22 09:45	06/28/22 04:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*06/27/22 09:45*	*06/28/22 04:45*	*1*
o-Terphenyl	*104*		*70 - 130*	*06/27/22 09:45*	*06/28/22 04:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25.1**		4.98		mg/Kg			07/02/22 18:50	1

Client Sample ID: Augar Hole 7

Lab Sample ID: 880-16308-28
Matrix: Solid
Date Collected: 06/23/22 12:15
Date Received: 06/24/22 16:40
Sample Depth: 1.0'-1.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25.5**		5.04		mg/Kg			07/02/22 18:58	1

Client Sample Results

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

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

Client Sample ID: Augar Hole 8

Lab Sample ID: 880-16308-29
Matrix: Solid
Date Collected: 06/23/22 12:20
Date Received: 06/24/22 16:40
Sample Depth: 0.0'-0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
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)	*117*		*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 BTEX 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 Organics (DRO) (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 Range Organics (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		06/27/22 09:45	06/28/22 00:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/27/22 09:45	06/28/22 00:31	1
Oil 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	*110*		*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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.1		4.98		mg/Kg			07/02/22 15:20	1

Client Sample ID: Augar Hole 8

Lab Sample ID: 880-16308-30
Matrix: Solid
Date Collected: 06/23/22 12:25
Date Received: 06/24/22 16:40
Sample Depth: 1.0'-1.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.4		4.95		mg/Kg			07/02/22 15:48	1

Client Sample Results

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

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

Client Sample ID: Augar Hole 9

Lab Sample ID: 880-16308-31
Matrix: Solid

Date Collected: 06/23/22 12:30
Date Received: 06/24/22 16:40
Sample Depth: 0.0'-0.5

Method: 8021B - Volatile Organic Compounds (GC)

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 Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	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 Organics (DRO) (GC)

Analyte	Result	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 Range Organics (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		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
OII 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 Chromatography - 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

Client Sample ID: Augar Hole 9

Lab Sample ID: 880-16308-32
Matrix: Solid

Date Collected: 06/23/22 12:35
Date Received: 06/24/22 16:40
Sample Depth: 1.0'-1.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**55.6**		4.99		mg/Kg			07/02/22 16:06	1

Client Sample Results

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

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

Client Sample ID: Augar Hole 10

Lab Sample ID: 880-16308-33
Matrix: Solid
Date Collected: 06/23/22 12:40
Date Received: 06/24/22 16:40
Sample Depth: 0.0'-0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 11:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 11:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 11:52	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/01/22 10:06	07/01/22 11:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 11:52	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/01/22 10:06	07/01/22 11:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*07/01/22 10:06*	*07/01/22 11:52*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*07/01/22 10:06*	*07/01/22 11:52*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	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 Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/28/22 10:27	1

Method: 8015B NM - Diesel Range Organics (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		06/27/22 09:45	06/28/22 00:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/27/22 09:45	06/28/22 00:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/27/22 09:45	06/28/22 00:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*131*	*S1+*	*70 - 130*	*06/27/22 09:45*	*06/28/22 00:52*	*1*
o-Terphenyl	*128*		*70 - 130*	*06/27/22 09:45*	*06/28/22 00:52*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98		mg/Kg			07/02/22 16:16	1

Client Sample ID: Augar Hole 10

Lab Sample ID: 880-16308-34
Matrix: Solid
Date Collected: 06/23/22 12:45
Date Received: 06/24/22 16:40
Sample Depth: 1.0'-1.5

Method: 300.0 - Anions, Ion Chromatography - 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

Client Sample Results

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

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

Client Sample ID: Augar Hole 11

Lab Sample ID: 880-16308-35
Matrix: Solid

Date Collected: 06/23/22 12:50
Date Received: 06/24/22 16:40
Sample Depth: 0.0'-0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 13:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 13:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 13:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/01/22 10:06	07/01/22 13:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 13:32	1
Xylenes, Total	<0.00399	U	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 Organics (DRO) (GC)

Analyte	Result	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 Range Organics (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		06/27/22 09:45	06/28/22 01:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/27/22 09:45	06/28/22 01:13	1
Oil 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 Chromatography - 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 Hole 11

Lab Sample ID: 880-16308-36
Matrix: Solid

Date Collected: 06/23/22 12:55
Date Received: 06/24/22 16:40
Sample Depth: 1.0'-1.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.8**		4.99		mg/Kg			07/02/22 17:02	1

Client Sample Results

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

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

Client Sample ID: Augar Hole 12

Lab Sample ID: 880-16308-37
Matrix: Solid
Date Collected: 06/23/22 13:00
Date Received: 06/24/22 16:40
Sample Depth: 0.0'-0.5

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 13:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/01/22 10:06	07/01/22 13:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/01/22 10:06	07/01/22 13:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/01/22 10:06	07/01/22 13:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/01/22 10:06	07/01/22 13:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/01/22 10:06	07/01/22 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*07/01/22 10:06*	*07/01/22 13:53*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/01/22 10:06*	*07/01/22 13:53*	*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 (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**3990**		250		mg/Kg			06/28/22 10:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<250	U	250		mg/Kg		06/27/22 09:45	06/28/22 04:24	5
Diesel Range Organics (Over C10-C28)	**3460**		250		mg/Kg		06/27/22 09:45	06/28/22 04:24	5
Oil Range Organics (Over C28-C36)	**528**		250		mg/Kg		06/27/22 09:45	06/28/22 04:24	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*06/27/22 09:45*	*06/28/22 04:24*	*5*
o-Terphenyl	*101*		*70 - 130*	*06/27/22 09:45*	*06/28/22 04:24*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**45.5**		4.96		mg/Kg			07/02/22 17:11	1

Client Sample ID: Augar Hole 12

Lab Sample ID: 880-16308-38
Matrix: Solid
Date Collected: 06/23/22 13:05
Date Received: 06/24/22 16:40
Sample Depth: 1.0'-1.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**35.5**		5.00		mg/Kg			07/02/22 17:20	1

Client Sample Results

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

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

Client Sample ID: Augar Hole 13

Lab Sample ID: 880-16308-39
Matrix: Solid
Date Collected: 06/23/22 13:10
Date Received: 06/24/22 16:40
Sample Depth: 0.0'-0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 14:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 14:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 14:13	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/01/22 10:06	07/01/22 14:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 14:13	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/01/22 10:06	07/01/22 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*07/01/22 10:06*	*07/01/22 14:13*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/01/22 10:06*	*07/01/22 14:13*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	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 Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**56.5**		50.0		mg/Kg			06/28/22 10:27	1

Method: 8015B NM - Diesel Range Organics (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		06/27/22 09:45	06/28/22 01:34	1
Diesel Range Organics (Over C10-C28)	**56.5**		50.0		mg/Kg		06/27/22 09:45	06/28/22 01:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/27/22 09:45	06/28/22 01:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*06/27/22 09:45*	*06/28/22 01:34*	*1*
o-Terphenyl	*107*		*70 - 130*	*06/27/22 09:45*	*06/28/22 01:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.22**		4.95		mg/Kg			07/02/22 17:29	1

Client Sample ID: Augar Hole 13

Lab Sample ID: 880-16308-40
Matrix: Solid
Date Collected: 06/23/22 13:15
Date Received: 06/24/22 16:40
Sample Depth: 1.0'-1.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.66**		5.00		mg/Kg			07/02/22 17:57	1

Client Sample Results

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

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

Client Sample ID: Augar Hole 14

Lab Sample ID: 880-16308-41
Matrix: Solid
Date Collected: 06/23/22 13:20
Date Received: 06/24/22 16:40
Sample Depth: 0.0'-0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/01/22 10:06	07/01/22 14:34	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/01/22 10:06	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 (DRO) (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 Range Organics (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		06/27/22 09:45	06/28/22 01:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/27/22 09:45	06/28/22 01:55	1
Oil 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 Chromatography - 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 Hole 14

Lab Sample ID: 880-16308-42
Matrix: Solid
Date Collected: 06/23/22 13:25
Date Received: 06/24/22 16:40
Sample Depth: 1.0'-1.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.3**		4.97		mg/Kg			07/02/22 18:34	1

Client Sample Results

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

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

Client Sample ID: Augar Hole 15

Lab Sample ID: 880-16308-43
Matrix: Solid
Date Collected: 06/23/22 13:30
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	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 14:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 14:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 14:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/01/22 10:06	07/01/22 14:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 14:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/01/22 10:06	07/01/22 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*07/01/22 10:06*	*07/01/22 14:54*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*07/01/22 10:06*	*07/01/22 14:54*	*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 Organics (DRO) (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 Range Organics (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		06/27/22 09:45	06/28/22 02:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/27/22 09:45	06/28/22 02:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/27/22 09:45	06/28/22 02:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*06/27/22 09:45*	*06/28/22 02:17*	*1*
o-Terphenyl	*103*		*70 - 130*	*06/27/22 09:45*	*06/28/22 02:17*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96	U	4.96		mg/Kg			07/02/22 18:43	1

Client Sample ID: Augar Hole 16

Lab Sample ID: 880-16308-44
Matrix: Solid
Date Collected: 06/23/22 13:35
Date Received: 06/24/22 16:40
Sample Depth: 0.0'-0.5

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 15:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/01/22 10:06	07/01/22 15:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/01/22 10:06	07/01/22 15:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/01/22 10:06	07/01/22 15:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/01/22 10:06	07/01/22 15:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/01/22 10:06	07/01/22 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*07/01/22 10:06*	*07/01/22 15:15*	*1*

Eurofins Midland

Client Sample Results

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

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

Client Sample ID: Augar Hole 16

Lab Sample ID: 880-16308-44

Date Collected: 06/23/22 13:35
Date Received: 06/24/22 16:40
Sample Depth: 0.0'-0.5

Matrix: Solid

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

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 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 (DRO) (GC)

Analyte	Result	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 Range Organics (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		06/27/22 09:45	06/28/22 02:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/27/22 09:45	06/28/22 02:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/27/22 09:45	06/28/22 02:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*06/27/22 09:45*	*06/28/22 02:38*	*1*
o-Terphenyl	*92*		*70 - 130*	*06/27/22 09:45*	*06/28/22 02:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.99**		4.99		mg/Kg			07/02/22 18:52	1

Client Sample ID: Augar Hole 17

Lab Sample ID: 880-16308-45

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

Matrix: Solid

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	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/01/22 10:06	07/01/22 17:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/01/22 10:06	07/01/22 17:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/01/22 10:06	07/01/22 17:39	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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*07/01/22 10:06*	*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	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 (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/28/22 10:27	1

Eurofins Midland

Client Sample Results

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

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
Sample Depth: 1.0'-1.5

Lab Sample ID: 880-16308-45

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (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		06/27/22 09:45	06/28/22 03:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/27/22 09:45	06/28/22 03:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/27/22 09:45	06/28/22 03:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*06/27/22 09:45*	*06/28/22 03:20*	*1*
o-Terphenyl	*93*		*70 - 130*	*06/27/22 09:45*	*06/28/22 03:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.52		5.04		mg/Kg			07/02/22 19:02	1

Surrogate Summary

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)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) BFB1 (70-130)	DFBZ1 (70-130)
880-16308-1	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
880-16308-39	Augar Hole 13	115	100
880-16308-41	Augar Hole 14	105	91
880-16308-43	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

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) 1CO1 (70-130)	OTPH1 (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

Surrogate Summary

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

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (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

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: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-28494/5-A
Matrix: Solid
Analysis Batch: 28710

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28494

Analyte	MB Result	MB 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

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*		*83 - 1+3*	*370680 66 17/64*	*370+306 6+/43*	*1*
1:4-9 ,fluorobenzene (Surr)	*22*		*83 - 1+3*	*370680 66 17/64*	*370+306 6+/43*	*1*

Lab Sample ID: LCS 880-28494/1-A
Matrix: Solid
Analysis Batch: 28710

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28494

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%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		

Surrogate	*LCS %Recovery*	*LCS 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

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28494

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

Surrogate	*LCSD %Recovery*	*LCSD 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
Analysis Batch: 28710

Client Sample ID: Augar Hole 1
Prep Type: Total/NA
Prep Batch: 28494

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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		

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

Lab Sample ID: 880-16308-1 MS
Matrix: Solid
Analysis Batch: 28710

Client Sample ID: Augar Hole 1
Prep Type: Total/NA
Prep Batch: 28494

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.266	F1 F2	0.100	0.3933		mg/Kg		127	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*678*	*S1D*	*83 - 1+3*
1:4-9 ,fluorobenzene (Surr)	*134*		*83 - 1+3*

Lab Sample ID: 880-16308-1 MSD
Matrix: Solid
Analysis Batch: 28710

Client Sample ID: Augar Hole 1
Prep Type: Total/NA
Prep Batch: 28494

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1 F2	0.0996	0.1003	F2	mg/Kg		101	70 - 130	197	35
Toluene	0.0613	F1	0.0996	0.3642	F1	mg/Kg		304	70 - 130	NC	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*2i 6*	*S1D*	*83 - 1+3*
1:4-9 ,fluorobenzene (Surr)	*+8+*	*S1D*	*83 - 1+3*

Lab Sample ID: MB 880-28678/5-A
Matrix: Solid
Analysis Batch: 28710

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28678

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/29/22 15:01	06/30/22 12:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/29/22 15:01	06/30/22 12:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/29/22 15:01	06/30/22 12:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/29/22 15:01	06/30/22 12:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/29/22 15:01	06/30/22 12:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/29/22 15:01	06/30/22 12:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*		*83 - 1+3*	*370620 66 1i /31*	*370+3066 16/31*	*1*
1:4-9 ,fluorobenzene (Surr)	*2C*		*83 - 1+3*	*370620 66 1i /31*	*370+3066 16/31*	*1*

Lab Sample ID: MB 880-28826/5-A
Matrix: Solid
Analysis Batch: 28820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28826

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 11:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 11:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 11:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/01/22 10:06	07/01/22 11:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 11:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/01/22 10:06	07/01/22 11:31	1

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

Lab Sample ID: MB 880-28826/5-A
Matrix: Solid
Analysis Batch: 28820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28826

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	28		83 - 1+3	380316613/37	380316611/+1	1
1:4-9 ,fluorobenzene (Surr)	C7		83 - 1+3	380316613/37	380316611/+1	1

Lab Sample ID: LCS 880-28826/1-A
Matrix: Solid
Analysis Batch: 28820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28826

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%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		

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

Lab Sample ID: LCSD 880-28826/2-A
Matrix: Solid
Analysis Batch: 28820

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28826

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

Surrogate	LCSD %Recovery	LCSD 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

Client Sample ID: Augar Hole 10
Prep Type: Total/NA
Prep Batch: 28826

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	138		83 - 1+3
1:4-9 ,fluorobenzene (Surr)	131		83 - 1+3

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

Lab Sample ID: 880-16308-33 MSD
Matrix: Solid
Analysis Batch: 28820

Client Sample ID: Augar Hole 10
Prep Type: Total/NA
Prep Batch: 28826

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0992	0.1030		mg/Kg		104	70 - 130	6	35
Toluene	<0.00200	U	0.0992	0.09838		mg/Kg		99	70 - 130	6	35
Ethylbenzene	<0.00200	U	0.0992	0.1001		mg/Kg		101	70 - 130	6	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.2042		mg/Kg		103	70 - 130	6	35
o-Xylene	<0.00200	U	0.0992	0.1012		mg/Kg		102	70 - 130	7	35

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

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

Lab Sample ID: MB 880-28431/1-A
Matrix: Solid
Analysis Batch: 28407

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28431

Analyte	MB Result	MB 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 21:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/27/22 09:45	06/27/22 21:40	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/27/22 09:45	06/27/22 21:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-h cloroot a5ne	*116*		*83 - 1+3*	*3706806 32/4i*	*3706806 61/43*	*1*
o-Terpcenyl	*16+*		*83 - 1+3*	*3706806 32/4i*	*3706806 61/43*	*1*

Lab Sample ID: LCS 880-28431/2-A
Matrix: Solid
Analysis Batch: 28407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28431

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	995.6		mg/Kg		100	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1157		mg/Kg		116	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-h cloroot a5ne	*113*		*83 - 1+3*
o-Terpcenyl	*132*		*83 - 1+3*

Lab Sample ID: LCSD 880-28431/3-A
Matrix: Solid
Analysis Batch: 28407

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28431

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1134		mg/Kg		113	70 - 130	13	20

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

Lab Sample ID: LCSD 880-28431/3-A
Matrix: Solid
Analysis Batch: 28407

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28431

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)			1000	1144		mg/Kg		114	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-chlorooctane	*116*		*83 - 134*
o-Terphenyl	*116*		*83 - 134*

Lab Sample ID: 880-16308-10 MS
Matrix: Solid
Analysis Batch: 28407

Client Sample ID: Augar Hole 2
Prep Type: Total/NA
Prep Batch: 28431

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-chlorooctane	*2i*		*83 - 134*
o-Terphenyl	*CC*		*83 - 134*

Lab Sample ID: 880-16308-10 MSD
Matrix: Solid
Analysis Batch: 28407

Client Sample ID: Augar Hole 2
Prep Type: Total/NA
Prep Batch: 28431

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	1084		mg/Kg		106	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	927.8		mg/Kg		91	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-chlorooctane	*2C*		*83 - 134*
o-Terphenyl	*C2*		*83 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-28440/1-A
Matrix: Solid
Analysis Batch: 28778

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/02/22 03:43	1

Lab Sample ID: LCS 880-28440/2-A
Matrix: Solid
Analysis Batch: 28778

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	274.8		mg/Kg		110	90 - 110

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 880-28440/3-A
Matrix: Solid
Analysis Batch: 28778

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	274.7		mg/Kg		110	90 - 110	0	20

Lab Sample ID: 880-16305-A-3-G MS
Matrix: Solid
Analysis Batch: 28778

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	194		248	450.9		mg/Kg		104	90 - 110		

Lab Sample ID: 880-16305-A-3-H MSD
Matrix: Solid
Analysis Batch: 28778

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	194		248	450.4		mg/Kg		104	90 - 110	0	20

Lab Sample ID: MB 880-28447/1-A
Matrix: Solid
Analysis Batch: 28782

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/02/22 14:53	1

Lab Sample ID: LCS 880-28447/2-A
Matrix: Solid
Analysis Batch: 28782

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	272.8		mg/Kg		109	90 - 110		

Lab Sample ID: LCSD 880-28447/3-A
Matrix: Solid
Analysis Batch: 28782

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	272.6		mg/Kg		109	90 - 110	0	20

Lab Sample ID: 880-16308-29 MS
Matrix: Solid
Analysis Batch: 28782

Client Sample ID: Augar Hole 8
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	12.1		249	275.5		mg/Kg		106	90 - 110		

Lab Sample ID: 880-16308-29 MSD
Matrix: Solid
Analysis Batch: 28782

Client Sample ID: Augar Hole 8
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	12.1		249	274.5		mg/Kg		105	90 - 110	0	20

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
Matrix: Solid
Analysis Batch: 28782

Client Sample ID: Augar Hole 13
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	7.22		248	276.3		mg/Kg		109	90 - 110

Lab Sample ID: 880-16308-39 MSD
Matrix: Solid
Analysis Batch: 28782

Client Sample ID: Augar Hole 13
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	7.22		248	276.0		mg/Kg		109	90 - 110	0	20

Lab Sample ID: MB 880-28446/1-A
Matrix: Solid
Analysis Batch: 28860

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/02/22 15:03	1

Lab Sample ID: LCS 880-28446/2-A
Matrix: Solid
Analysis Batch: 28860

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	256.5		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-28446/3-A
Matrix: Solid
Analysis Batch: 28860

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	256.5		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-16308-9 MS
Matrix: Solid
Analysis Batch: 28860

Client Sample ID: Augar Hole 1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1950	F1	1250	3467	F1	mg/Kg		121	90 - 110

Lab Sample ID: 880-16308-9 MSD
Matrix: Solid
Analysis Batch: 28860

Client Sample ID: Augar Hole 1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1950	F1	1250	3479	F1	mg/Kg		122	90 - 110	0	20

Lab Sample ID: 880-16308-19 MS
Matrix: Solid
Analysis Batch: 28860

Client Sample ID: Augar Hole 3
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	697		248	940.3		mg/Kg		98	90 - 110

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: 880-16308-19 MSD
Matrix: Solid
Analysis Batch: 28860

Client Sample ID: Augar Hole 3
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	697		248	940.5		mg/Kg		98	90 - 110	0	20

QC Association Summary

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 Batch
880-16308-1	Augar Hole 1	Total/NA	Solid	5035	
880-16308-10	Augar Hole 2	Total/NA	Solid	5035	
880-16308-11	Augar Hole 2	Total/NA	Solid	5035	
880-16308-19	Augar Hole 3	Total/NA	Solid	5035	
880-16308-21	Augar Hole 4	Total/NA	Solid	5035	
880-16308-23	Augar Hole 5	Total/NA	Solid	5035	
880-16308-25	Augar Hole 6	Total/NA	Solid	5035	
880-16308-27	Augar Hole 7	Total/NA	Solid	5035	
880-16308-29	Augar Hole 8	Total/NA	Solid	5035	
880-16308-31	Augar Hole 9	Total/NA	Solid	5035	
MB 880-28494/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-28494/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-28494/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-16308-1 MS	Augar Hole 1	Total/NA	Solid	5035	
880-16308-1 MSD	Augar Hole 1	Total/NA	Solid	5035	

Prep Batch: 28678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-28678/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 28710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16308-1	Augar Hole 1	Total/NA	Solid	8021B	28494
880-16308-10	Augar Hole 2	Total/NA	Solid	8021B	28494
880-16308-11	Augar Hole 2	Total/NA	Solid	8021B	28494
880-16308-19	Augar Hole 3	Total/NA	Solid	8021B	28494
880-16308-21	Augar Hole 4	Total/NA	Solid	8021B	28494
880-16308-23	Augar Hole 5	Total/NA	Solid	8021B	28494
880-16308-25	Augar Hole 6	Total/NA	Solid	8021B	28494
880-16308-27	Augar Hole 7	Total/NA	Solid	8021B	28494
880-16308-29	Augar Hole 8	Total/NA	Solid	8021B	28494
880-16308-31	Augar Hole 9	Total/NA	Solid	8021B	28494
MB 880-28494/5-A	Method Blank	Total/NA	Solid	8021B	28494
MB 880-28678/5-A	Method Blank	Total/NA	Solid	8021B	28678
LCS 880-28494/1-A	Lab Control Sample	Total/NA	Solid	8021B	28494
LCSD 880-28494/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	28494
880-16308-1 MS	Augar Hole 1	Total/NA	Solid	8021B	28494
880-16308-1 MSD	Augar Hole 1	Total/NA	Solid	8021B	28494

Analysis Batch: 28820

Lab Sample ID	Client Sample ID	Prep Type	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

QC Association Summary

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

GC VOA (Continued)

Analysis Batch: 28820 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep 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	Prep Type	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	Prep Type	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

QC Association Summary

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

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	Prep Type	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	

QC Association Summary

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

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

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	Prep Type	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	Prep Type	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	

QC Association Summary

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

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

HPLC/IC (Continued)

Leach Batch: 28446 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	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	Prep Type	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

QC Association Summary

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

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

HPLC/IC (Continued)

Analysis Batch: 28778 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	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	Prep Type	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	Prep Type	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

QC Association Summary

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

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

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

Lab Chronicle

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

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

Client Sample ID: Augar Hole 1

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

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	CH	XEN MID

Client Sample ID: Augar Hole 1

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

Lab Sample ID: 880-16308-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	28440	06/27/22 10:00	SMC	XEN MID
Soluble	Analysis	300.0		5			28778	07/02/22 06:52	CH	XEN MID

Client Sample ID: Augar Hole 1

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

Lab Sample ID: 880-16308-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	CH	XEN MID

Client Sample ID: Augar Hole 1

Date Collected: 06/23/22 10:15
Date Received: 06/24/22 16:40

Lab Sample ID: 880-16308-4
Matrix: Solid

Prep Type	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	28440	06/27/22 10:00	SMC	XEN MID
Soluble	Analysis	300.0		5			28778	07/02/22 07:08	CH	XEN MID

Client Sample ID: Augar Hole 1

Date Collected: 06/23/22 10:20
Date Received: 06/24/22 16:40

Lab Sample ID: 880-16308-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Chronicle

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

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

Client Sample ID: Augar Hole 1

Lab Sample ID: 880-16308-6

Date Collected: 06/23/22 10:25
Matrix: Solid
Date Received: 06/24/22 16:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	28440	06/27/22 10:00	SMC	XEN MID
Soluble	Analysis	300.0		5			28778	07/02/22 07:23	CH	XEN MID

Client Sample ID: Augar Hole 1

Lab Sample ID: 880-16308-7

Date Collected: 06/23/22 10:30
Matrix: Solid
Date Received: 06/24/22 16:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	28440	06/27/22 10:00	SMC	XEN MID
Soluble	Analysis	300.0		5			28778	07/02/22 07:31	CH	XEN MID

Client Sample ID: Augar Hole 1

Lab Sample ID: 880-16308-8

Date Collected: 06/23/22 10:35
Matrix: Solid
Date Received: 06/24/22 16:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	CH	XEN MID

Client Sample ID: Augar Hole 1

Lab Sample ID: 880-16308-9

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	CH	XEN MID

Client Sample ID: Augar Hole 2

Lab Sample ID: 880-16308-10

Date Collected: 06/23/22 10:45
Matrix: Solid
Date Received: 06/24/22 16:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Chronicle

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

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

Client Sample ID: Augar Hole 2

Date Collected: 06/23/22 10:50
Date Received: 06/24/22 16:40

Lab Sample ID: 880-16308-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 00:49	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	06/27/22 23:49	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		5			28860	07/02/22 15:58	CH	XEN MID

Client Sample ID: Augar Hole 2

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

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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		5			28860	07/02/22 16:05	CH	XEN MID

Client Sample ID: Augar Hole 2

Date Collected: 06/23/22 11:00
Date Received: 06/24/22 16:40

Lab Sample ID: 880-16308-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 880-16308-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	CH	XEN MID

Client Sample ID: Augar Hole 2

Date Collected: 06/23/22 11:10
Date Received: 06/24/22 16:40

Lab Sample ID: 880-16308-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	CH	XEN MID

Lab Chronicle

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

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

Client Sample ID: Augar Hole 2

Date Collected: 06/23/22 11:15
Date Received: 06/24/22 16:40

Lab Sample ID: 880-16308-16

Matrix: Solid

Prep Type	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	CH	XEN MID

Client Sample ID: Augar Hole 2

Date Collected: 06/23/22 11:20
Date Received: 06/24/22 16:40

Lab Sample ID: 880-16308-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	CH	XEN MID

Client Sample ID: Augar Hole 2

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

Lab Sample ID: 880-16308-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	CH	XEN MID

Client Sample ID: Augar Hole 3

Date Collected: 06/23/22 11:30
Date Received: 06/24/22 16:40

Lab Sample ID: 880-16308-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	CH	XEN MID

Client Sample ID: Augar Hole 3

Date Collected: 06/23/22 11:35
Date Received: 06/24/22 16:40

Lab Sample ID: 880-16308-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	CH	XEN MID

Lab Chronicle

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

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

Client Sample ID: Augar Hole 4

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

Lab Sample ID: 880-16308-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 01:30	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		5			28407	06/28/22 04:03	SM	XEN MID
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 17:48	CH	XEN MID

Client Sample ID: Augar Hole 4

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

Lab Sample ID: 880-16308-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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		1			28860	07/02/22 18:11	CH	XEN MID

Client Sample ID: Augar Hole 5

Date Collected: 06/23/22 11:50
Date Received: 06/24/22 16:40

Lab Sample ID: 880-16308-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	CH	XEN MID

Client Sample ID: Augar Hole 5

Date Collected: 06/23/22 11:55
Date Received: 06/24/22 16:40

Lab Sample ID: 880-16308-24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Chronicle

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

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

Client Sample ID: Augar Hole 6

Date Collected: 06/23/22 12:00
Date Received: 06/24/22 16:40

Lab Sample ID: 880-16308-25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 02:11	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 05:27	SM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	28446	06/27/22 10:34	SMC	XEN MID
Soluble	Analysis	300.0		1			28860	07/02/22 18:35	CH	XEN MID

Client Sample ID: Augar Hole 6

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

Lab Sample ID: 880-16308-26

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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		1			28860	07/02/22 18:42	CH	XEN MID

Client Sample ID: Augar Hole 7

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

Lab Sample ID: 880-16308-27

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 880-16308-28

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	CH	XEN MID

Lab Chronicle

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

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

Lab Sample ID: 880-16308-29

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 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 02:52	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 00:31	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	28447	06/27/22 10:39	SMC	XEN MID
Soluble	Analysis	300.0		1			28782	07/02/22 15:20	CH	XEN MID

Client Sample ID: Augar Hole 8

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

Lab Sample ID: 880-16308-30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
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 15:48	CH	XEN MID

Client Sample ID: Augar Hole 9

Date Collected: 06/23/22 12:30
Date Received: 06/24/22 16:40

Lab Sample ID: 880-16308-31

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 880-16308-32

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	CH	XEN MID

Lab Chronicle

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

Client Sample ID: Augar Hole 10 Lab Sample ID: 880-16308-33

Date Collected: 06/23/22 12:40 **Matrix: Solid**
Date Received: 06/24/22 16:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 11:52	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			10.05 g	10 mL	28431	06/27/22 09:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28407	06/28/22 00:52	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	28447	06/27/22 10:39	SMC	XEN MID
Soluble	Analysis	300.0		1			28782	07/02/22 16:16	CH	XEN MID

Client Sample ID: Augar Hole 10 Lab Sample ID: 880-16308-34

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 16:43	CH	XEN MID

Client Sample ID: Augar Hole 11 Lab Sample ID: 880-16308-35

Date Collected: 06/23/22 12:50 **Matrix: Solid**
Date Received: 06/24/22 16:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	CH	XEN MID

Client Sample ID: Augar Hole 11 Lab Sample ID: 880-16308-36

Date Collected: 06/23/22 12:55 **Matrix: Solid**
Date Received: 06/24/22 16:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Chronicle

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

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

Lab Sample ID: 880-16308-37

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 13:53	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		5			28407	06/28/22 04:24	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 17:11	CH	XEN MID

Client Sample ID: Augar Hole 12

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

Lab Sample ID: 880-16308-38

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 17:20	CH	XEN MID

Client Sample ID: Augar Hole 13

Date Collected: 06/23/22 13:10
Date Received: 06/24/22 16:40

Lab Sample ID: 880-16308-39

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 880-16308-40

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Chronicle

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

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

Client Sample ID: Augar Hole 14

Date Collected: 06/23/22 13:20
Date Received: 06/24/22 16:40

Lab Sample ID: 880-16308-41

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 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 14:34	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 01:55	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	28447	06/27/22 10:39	SMC	XEN MID
Soluble	Analysis	300.0		1			28782	07/02/22 18:06	CH	XEN MID

Client Sample ID: Augar Hole 14

Date Collected: 06/23/22 13:25
Date Received: 06/24/22 16:40

Lab Sample ID: 880-16308-42

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
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 18:34	CH	XEN MID

Client Sample ID: Augar Hole 15

Date Collected: 06/23/22 13:30
Date Received: 06/24/22 16:40

Lab Sample ID: 880-16308-43

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 880-16308-44

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	CH	XEN MID

Lab Chronicle

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

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

Lab Sample ID: 880-16308-45

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

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.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-23	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

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

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

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B 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
8015NM Prep	Microextraction	SW846	XEN MID
DI 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

Sample Summary

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

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-16308-1	Augar Hole 1	Solid	06/23/22 10:00	06/24/22 16:40	0.0'-0.5
880-16308-2	Augar Hole 1	Solid	06/23/22 10:05	06/24/22 16:40	0.5'-1.0
880-16308-3	Augar Hole 1	Solid	06/23/22 10:10	06/24/22 16:40	1.0'-1.5
880-16308-4	Augar Hole 1	Solid	06/23/22 10:15	06/24/22 16:40	1.5'-2.0
880-16308-5	Augar Hole 1	Solid	06/23/22 10:20	06/24/22 16:40	2.0'-2.5
880-16308-6	Augar Hole 1	Solid	06/23/22 10:25	06/24/22 16:40	2.5'-3.0
880-16308-7	Augar Hole 1	Solid	06/23/22 10:30	06/24/22 16:40	3.0'-3.5
880-16308-8	Augar Hole 1	Solid	06/23/22 10:35	06/24/22 16:40	3.5'-4.0
880-16308-9	Augar Hole 1	Solid	06/23/22 10:40	06/24/22 16:40	4.0'-4.5
880-16308-10	Augar Hole 2	Solid	06/23/22 10:45	06/24/22 16:40	0.0'-0.5
880-16308-11	Augar Hole 2	Solid	06/23/22 10:50	06/24/22 16:40	0.5'-1.0
880-16308-12	Augar Hole 2	Solid	06/23/22 10:55	06/24/22 16:40	1.0'-1.5
880-16308-13	Augar Hole 2	Solid	06/23/22 11:00	06/24/22 16:40	1.5'-2.0
880-16308-14	Augar Hole 2	Solid	06/23/22 11:05	06/24/22 16:40	2.0'-2.5
880-16308-15	Augar Hole 2	Solid	06/23/22 11:10	06/24/22 16:40	2.5'-3.0
880-16308-16	Augar Hole 2	Solid	06/23/22 11:15	06/24/22 16:40	3.0'-3.5
880-16308-17	Augar Hole 2	Solid	06/23/22 11:20	06/24/22 16:40	3.5'-4.0
880-16308-18	Augar Hole 2	Solid	06/23/22 11:25	06/24/22 16:40	4.0'-4.5
880-16308-19	Augar Hole 3	Solid	06/23/22 11:30	06/24/22 16:40	0.0'-0.5
880-16308-20	Augar Hole 3	Solid	06/23/22 11:35	06/24/22 16:40	0.0'-0.5
880-16308-21	Augar Hole 4	Solid	06/23/22 11:40	06/24/22 16:40	0.0'-0.5
880-16308-22	Augar Hole 4	Solid	06/23/22 11:45	06/24/22 16:40	1.0'-1.5
880-16308-23	Augar Hole 5	Solid	06/23/22 11:50	06/24/22 16:40	0.0'-0.5
880-16308-24	Augar Hole 5	Solid	06/23/22 11:55	06/24/22 16:40	1.0'-1.5
880-16308-25	Augar Hole 6	Solid	06/23/22 12:00	06/24/22 16:40	0.0'-0.5
880-16308-26	Augar Hole 6	Solid	06/23/22 12:05	06/24/22 16:40	1.0'-1.5
880-16308-27	Augar Hole 7	Solid	06/23/22 12:10	06/24/22 16:40	0.0'-0.5
880-16308-28	Augar Hole 7	Solid	06/23/22 12:15	06/24/22 16:40	1.0'-1.5
880-16308-29	Augar Hole 8	Solid	06/23/22 12:20	06/24/22 16:40	0.0'-0.5
880-16308-30	Augar Hole 8	Solid	06/23/22 12:25	06/24/22 16:40	1.0'-1.5
880-16308-31	Augar Hole 9	Solid	06/23/22 12:30	06/24/22 16:40	0.0'-0.5
880-16308-32	Augar Hole 9	Solid	06/23/22 12:35	06/24/22 16:40	1.0'-1.5
880-16308-33	Augar Hole 10	Solid	06/23/22 12:40	06/24/22 16:40	0.0'-0.5
880-16308-34	Augar Hole 10	Solid	06/23/22 12:45	06/24/22 16:40	1.0'-1.5
880-16308-35	Augar Hole 11	Solid	06/23/22 12:50	06/24/22 16:40	0.0'-0.5
880-16308-36	Augar Hole 11	Solid	06/23/22 12:55	06/24/22 16:40	1.0'-1.5
880-16308-37	Augar Hole 12	Solid	06/23/22 13:00	06/24/22 16:40	0.0'-0.5
880-16308-38	Augar Hole 12	Solid	06/23/22 13:05	06/24/22 16:40	1.0'-1.5
880-16308-39	Augar Hole 13	Solid	06/23/22 13:10	06/24/22 16:40	0.0'-0.5
880-16308-40	Augar Hole 13	Solid	06/23/22 13:15	06/24/22 16:40	1.0'-1.5
880-16308-41	Augar Hole 14	Solid	06/23/22 13:20	06/24/22 16:40	0.0'-0.5
880-16308-42	Augar Hole 14	Solid	06/23/22 13:25	06/24/22 16:40	1.0'-1.5
880-16308-43	Augar Hole 15	Solid	06/23/22 13:30	06/24/22 16:40	1.0'-1.5
880-16308-44	Augar Hole 16	Solid	06/23/22 13:35	06/24/22 16:40	0.0'-0.5
880-16308-45	Augar Hole 17	Solid	06/23/22 13:40	06/24/22 16:40	1.0'-1.5

CHAIN OF CUSTODY

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Midland, Texas (432-704-5251)
Phoenix, Arizona (480-355-0900)
www.xenco.com

Xenco Quote # | Xenco Job #

Client / Reporting Information

Company Name / Branch: American Safety Services Inc.
Company Address: 8715 Andrews Hwy, Odessa Tx 79765
Email: tfranklin@americansafety.net
Phone No: 432-557-9868
Project Contact: Thomas Franklin
Samplers's Name Miguel

Project Information

Project Name/Number: Contango-Karlsbad Corral SWD 2
Project Location: Eddy Co NM
Invoice To: Jr Curtis
jr.curtis@contango.com
PO Number:

Analytical Information

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW =Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
OW =Ocean/Sea Water
WI = Wipe
O = Oil
WW= Waste Water
A = Air

No	Field ID / Point of Collection	Collection: Sample Depth	Date	Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	TPH 8015 M	BTEX 8021 B	Chloride E 300	Field Comments
1	Auger Hole 1	0.0'-0.5'	6/23/2022	1000											X	X	X	
2	Auger Hole 1	0.5'-1.0'	6/23/2022	1005													X	
3	Auger Hole 1	1.0'-1.5'	6/23/2022	1010													X	
4	Auger Hole 1	1.5'-2.0'	6/23/2022	1015													X	
5	Auger Hole 1	2.0'-2.5'	6/23/2022	1020													X	
6	Auger Hole 1	2.5'3.0'	6/23/2022	1025													X	
7	Auger Hole 1	3.0'-3.5'	6/23/2022	1030													X	
8	Auger Hole 1	3.5'-4.0'	6/23/2022	1035													X	
9	Auger Hole 1	4.0'-4.5'	6/23/2022	1040													X	
10	Auger Hole 2	0.0'-0.5'	6/23/2022	1045											X	X	X	

880-16308 Chain of Custody

Turnaround Time (Business days)

- [ ] Same Day TAT
- [X] 5 Day TAT
- [ ] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [ ] Contract TAT
- [ ] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 5:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] TRRP Checklist

Notes

FED-EX / UPS Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

	Relinquished by Sampler	Date Time	Received By	Relinquished By	Date Time:	Received By
1	Julia Cruz	10-24-22 4:40	1	2		2
3	Relinquished by	Date Time:	Received By 3	Relinquished By 4	Date Time	Received By 4
5	Relinquished by	Date Time	Received By 5	Custody Seal #	Preserved where applicable	On Ice ✓ Cooler Temp. 5.7/5.5 Thermo. Corr Factor -2 IR0

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 enforced unless previously negotiated under a fully executed client contract.

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CHAIN OF CUSTODY

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7/5/2022

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Xenco Quote #
Xenco Job #

Client / Reporting Information

Company Name / Branch: American Safety Services Inc.
Company Address: 8715 Andrews Hwy, Odessa Tx 79765
Email: tfranklin@americansafety.net
Phone No: 432-557-9868
Project Contact: Thomas Franklin
Samplers's Name: Miguel

Project Information

Project Name/Number: Contango-Karlsbad Corral SWD 2
Project Location: Eddy Co NM
Invoice To:
PO Number:

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW = Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
OW = Ocean/Sea Water
WI = Wipe
O = Oil
WW = Waste Water
A = Air

No	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	TPH 8015 M	BTEX 8021 B	Chloride E 300	Field Comments
1	Auger Hole 2	0.5'-1.0'	6/23/2022	1050											X	X	X	
2	Auger Hole 2	1.0'-1.5'	6/23/2022	1055													X	
3	Auger Hole 2	1.5'-2.0'	6/23/2022	1100													X	
4	Auger Hole 2	2.0'-2.5'	6/23/2022	1105													X	
5	Auger Hole 2	2.5'3.0'	6/23/2022	1110													X	
6	Auger Hole 2	3.0'-3.5'	6/23/2022	1115													X	
7	Auger Hole 2	3.5'-4.0'	6/23/2022	1120													X	
8	Auger Hole 2	4.0'-4.5'	6/23/2022	1125													X	
9	Auger Hole 3	0 0'-0.5'	6/23/2022	1130											X	X	X	
10	Auger Hole 3	1.0'-1.5'	6/23/2022	1135													X	

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Notes.

FED-EX / UPS Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

Relinquished by Sampler	Date Time	Received By	Relinquished By	Date Time	Received By
1 [signature]	6-24-22 4:40	1 [signature]	2		2
Relinquished by 3	Date Time	Received By 3	Relinquished By 4	Date Time	Received By 4
Relinquished by 5	Date Time.	Received By 5	Custody Seal #	Preserved where 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 enforced unless previously negotiated under a fully executed client contract.

CHAIN OF CUSTODY

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SL = Sludge
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WI = Wipe
O = Oil
WW= Waste Water
A = Air

No	Field ID / Point of Collection	Collection: Sample Depth	Date	Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	TPH 8015 M	BTEX 8021 B	Chloride E 300	Field Comments
1	Auger Hole 4	0.0'-0.5'	6/23/2022	1140											X	X	X	
2	Auger Hole 4	1.0'-1.5'	6/23/2022	1145													X	
3	Auger Hole 5	0.0'-0.5'	6/23/2022	1150											X	X	X	
4	Auger Hole 5	1.0'-1.5'	6/23/2022	1155													X	
5	Auger Hole 6	0.0'-0.5'	6/23/2022	1200											X	X	X	
6	Auger Hole 6	1.0'-1.5'	6/23/2022	1205													X	
7	Auger Hole 7	0.0'-0.5'	6/23/2022	1210											X	X	X	
8	Auger Hole 7	1.0'-1.5'	6/23/2022	1215													X	
9	Auger Hole 8	0.0'-0.5'	6/23/2022	1220											X	X	X	
10	Auger Hole 8	1.0'-1.5'	6/23/2022	1225													X	

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Notes.

FED-EX / UPS Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

Relinquished by Sampler 1	Date Time 6-24-22 4:16	Received By 1	Relinquished By 2	Date Time	Received By 2
Relinquished by 3	Date Time	Received By 3	Relinquished By 4	Date Time	Received By 4
Relinquished by 5	Date Time	Received By 5	Custody Seal #	Preserved where applicable	On Ice / Cooler Temp. / Thermo. Corr Factor

CHAIN OF CUSTODY

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DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
OW =Ocean/Sea Water
WI = Wipe
O = Oil
WW= Waste Water
A = Air

No	Field ID / Point of Collection	Collection: Sample Depth	Date	Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	TPH 8015 M	BTEX 8021 B	Chloride E 300	Field Comments
1	Auger Hole 9	0.0'-0.5'	6/23/2022	1230											X	X	X	
2	Auger Hole 9	1.0'-1.5'	6/23/2022	1235													X	
3	Auger Hole 10	0.0'-0.5'	6/23/2022	1240											X	X	X	
4	Auger Hole 10	1.0'-1.5'	6/23/2022	1245													X	
5	Auger Hole 11	0.0'-0.5'	6/23/2022	1250											X	X	X	
6	Auger Hole 11	1.0'-1.5'	6/23/2022	1255													X	
7	Auger Hole 12	0.0'-0.5'	6/23/2022	1300											X	X	X	
8	Auger Hole 12	1.0'-1.5'	6/23/2022	1305													X	
9	Auger Hole 13	0.0'-0.5'	6/23/2022	1310											X	X	X	
10	Auger Hole 13	1.0'-1.5'	6/23/2022	1315													X	

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Notes.

FED-EX / UPS Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by Sampler	Date Time	Received By	Relinquished By	Date Time	Received By
1	Justin Crane	6-24-22 4:20		2		2
3	Relinquished by	Date Time	Received By	Relinquished By	Date Time:	Received By
5	Relinquished by	Date Time	Received By	Custody Seal #	Preserved where applicable	On Ice / Cooler Temp. / Thermo. Corr Factor

CHAIN OF CUSTODY

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XENCO LABORATORIES
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7/5/2022

Xenco Quote # | Xenco Job #

Client / Reporting Information

Company Name / Branch: American Safety Services Inc.
Company Address: 8715 Andrews Hwy, Odessa Tx 79765
Email: tfranklin@americansafety.net
Phone No: 432-557-9868
Project Contact: Thomas Franklin
Samplers's Name Miguel

Project Information

Project Name/Number: Contango-Karlsbad Corral SWD 2
Project Location: Eddy Co NM
Invoice To:
PO Number:

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW =Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
OW =Ocean/Sea Water
WI = Wipe
O = Oil
WW= Waste Water
A = Air

No	Field ID / Point of Collection	Collection: Sample Depth	Date	Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Analytical Information: TPH 8015 M	BTEX 8021 B	Chloride E 300	Field Comments
1	Auger Hole 14	0.0'-0.5'	6/23/2022	1320											X	X	X	
2	Auger Hole 14	1.0'-1.5'	6/23/2022	1325													X	
3	Auger Hole 15	0.0'-0.5'	6/23/2022	1330											X	X	X	
4	Auger Hole 16	0.0'-0.5'	6/23/2022	1335											X	X	X	
5	Auger Hole 17	0.0'-0.5'	6/23/2022	1340											X	X	X	
6																		
7																		
8																		
9																		
10																		

Loc: 880
16308

Turnaround Time (Business days)

- [ ] Same Day TAT
- [X] 5 Day TAT
- [ ] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [ ] Contract TAT
- [ ] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 5:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] TRRP Checklist

Notes.

FED-EX / UPS Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by Sampler	Date Time	Received By	Relinquished By	Date Time	Received By
1	Brittin Reams	6-24-22 4:40	1	2		2
3	Relinquished by	Date Time	Received By	Relinquished By	Date Time	Received By
			3	4		4
5	Relinquished by	Date Time	Received By	Custody Seal #	Preserved where applicable	On Ice / Cooler Temp. / Thermo. Corr Factor
			5			

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 enforced unless previously negotiated under a fully executed client contract.

Login Sample Receipt Checklist

Client: American Safety Services Inc.

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

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

List Source: Eurofins Midland

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 <6mm (1/4").	N/A	

eurofins | 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

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

Laboratory Job ID: 890-3201-1

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Definitions/Glossary

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

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
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
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MDL	Method Detection Limit
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
PQL	Practical Quantitation Limit
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: Contango Resources LLC
Project/Site: carlsabd corral swd 2

Job ID: 890-3201-1

Job ID: 890-3201-1

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.

Client Sample Results

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

Job ID: 890-3201-1

Client Sample ID: H1 S2 6'0

Lab Sample ID: 890-3201-1

Date Collected: 10/13/22 06:00
Matrix: Solid
Date Received: 10/13/22 13:09
Sample Depth: 6

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

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	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/17/22 12:52	10/19/22 12:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/17/22 12:52	10/19/22 12:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/17/22 12:52	10/19/22 12:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/17/22 12:52	10/19/22 12:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/17/22 12:52	10/19/22 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*10/17/22 12:52*	*10/19/22 12:52*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*10/17/22 12:52*	*10/19/22 12:52*	*1*

Method: TAL SOP 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			10/19/22 14:41	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		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 (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 13:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 13:52	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 13:52	1
Total TPH	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*10/14/22 13:00*	*10/14/22 13:52*	*1*
o-Terphenyl	*110*		*70 - 130*	*10/14/22 13:00*	*10/14/22 13:52*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.48		5.00		mg/Kg			10/16/22 20:18	1

Client Sample ID: H2 S2 6'0

Lab Sample ID: 890-3201-2

Date Collected: 10/13/22 06:08
Matrix: Solid
Date Received: 10/13/22 13:09
Sample Depth: 6

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 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

Client Sample Results

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

Job ID: 890-3201-1

Client Sample ID: H2 S2 6'0

Lab Sample ID: 890-3201-2

Date Collected: 10/13/22 06:08
Matrix: Solid
Date Received: 10/13/22 13:09
Sample Depth: 6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*10/17/22 12:52*	*10/19/22 13:13*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*10/17/22 12:52*	*10/19/22 13:13*	*1*

Method: TAL SOP 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			10/19/22 14:41	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		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 (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 14:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 14:14	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 14:14	1
Total TPH	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*10/14/22 13:00*	*10/14/22 14:14*	*1*
o-Terphenyl	*111*		*70 - 130*	*10/14/22 13:00*	*10/14/22 14:14*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.08**		4.97		mg/Kg			10/16/22 20:43	1

Client Sample ID: H3 S2 1'6

Lab Sample ID: 890-3201-3

Date Collected: 10/13/22 06:15
Matrix: Solid
Date Received: 10/13/22 13:09
Sample Depth: 1.0

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

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 13:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/17/22 12:52	10/19/22 13:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/17/22 12:52	10/19/22 13:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/17/22 12:52	10/19/22 13:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/17/22 12:52	10/19/22 13:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/17/22 12:52	10/19/22 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*10/17/22 12:52*	*10/19/22 13:34*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*10/17/22 12:52*	*10/19/22 13:34*	*1*

Method: TAL SOP 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			10/19/22 14:41	1

Client Sample Results

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

Job ID: 890-3201-1

Client Sample ID: H3 S2 1'6

Lab Sample ID: 890-3201-3

Date Collected: 10/13/22 06:15
Date Received: 10/13/22 13:09
Sample Depth: 1.0

Matrix: Solid

Method: SW846 8015 NM - Diesel Range Organics (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 - Diesel Range Organics (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
OII 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 Chromatography - Soluble

Analyte	Result	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 Sample ID: 890-3201-4

Date Collected: 10/13/22 06:22
Date Received: 10/13/22 13:09
Sample Depth: .6

Matrix: Solid

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 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 Calculation

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 - Diesel Range Organics (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 - Diesel Range Organics (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 14:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/14/22 13:00	10/14/22 14:56	1
OII 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

Client Sample Results

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

Job ID: 890-3201-1

Client Sample ID: H4 S2 1'0

Lab Sample ID: 890-3201-4

Date Collected: 10/13/22 06:22
Matrix: Solid
Date Received: 10/13/22 13:09
Sample Depth: .6

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

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 Sample ID: 890-3201-5

Date Collected: 10/13/22 06:30
Matrix: Solid
Date Received: 10/13/22 13:09
Sample Depth: .6

Method: SW846 8021B - Volatile Organic Compounds (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 - Total BTEX Calculation

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 Range Organics (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 - Diesel Range Organics (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 15:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 15:39	1
OII 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*

Client Sample Results

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

Job ID: 890-3201-1

Client Sample ID: H5 S2 0.6'

Lab Sample ID: 890-3201-5

Date Collected: 10/13/22 06:30
Matrix: Solid
Date Received: 10/13/22 13:09
Sample Depth: .6

Method: MCAWW 300.0 - Anions, Ion Chromatography - 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 Sample ID: 890-3201-6

Date Collected: 10/13/22 06:40
Matrix: Solid
Date Received: 10/13/22 13:09
Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	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 - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/19/22 14:59	1

Method: SW846 8015 NM - Diesel Range Organics (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	1

Method: SW846 8015B NM - Diesel Range Organics (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 C10-C28)	<49.9	U	49.9		mg/Kg		10/14/22 13:00	10/14/22 16:00	1
OII 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*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.05	U	5.05		mg/Kg			10/16/22 21:33	1

Client Sample Results

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

Job ID: 890-3201-1

Client Sample ID: H7 S2 1'0"

Lab Sample ID: 890-3201-7

Date Collected: 10/13/22 06:47
Matrix: Solid
Date Received: 10/13/22 13:09
Sample Depth: 1

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

Analyte	Result	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 - Total BTEX Calculation

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 Organics (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 - Diesel Range Organics (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
OII 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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**40.5**		4.99		mg/Kg			10/16/22 21:41	1

Client Sample ID: H9 S2 1'0"

Lab Sample ID: 890-3201-8

Date Collected: 10/13/22 07:00
Matrix: Solid
Date Received: 10/13/22 13:09
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (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 23:21	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

Client Sample Results

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

Job ID: 890-3201-1

Client Sample ID: H9 S2 1'0"

Lab Sample ID: 890-3201-8

Date Collected: 10/13/22 07:00
Matrix: Solid
Date Received: 10/13/22 13:09
Sample Depth: 1

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 - Total BTEX Calculation

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 Organics (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 - Diesel Range Organics (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 16:43	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/14/22 13:00	10/14/22 16:43	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/14/22 13:00	10/14/22 16:43	1
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 Chromatography - Soluble

Analyte	Result	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 Sample ID: 890-3201-9

Date Collected: 10/13/22 07:10
Matrix: Solid
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	<0.00199	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 Calculation

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 Organics (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

Eurofins Carlsbad

Client Sample Results

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

Job ID: 890-3201-1

Client Sample ID: H12 S2 1'0"

Lab Sample ID: 890-3201-9

Date Collected: 10/13/22 07:10

Matrix: Solid

Date Received: 10/13/22 13:09

Method: SW846 8015B NM - Diesel Range Organics (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 17:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 17:05	1
OII 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*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.1		5.02		mg/Kg			10/16/22 21:58	1

Client Sample ID: SW8 S2

Lab Sample ID: 890-3201-10

Date Collected: 10/13/22 07:18

Matrix: Solid

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 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 SOP 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			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		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 (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 17:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 17:27	1
OII 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*

Client Sample Results

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

Job ID: 890-3201-1

Client Sample ID: SW8 S2

Lab Sample ID: 890-3201-10

Date Collected: 10/13/22 07:18

Matrix: Solid

Date Received: 10/13/22 13:09

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.0		5.03		mg/Kg			10/16/22 22:06	1

Client Sample ID: SW10 S2

Lab Sample ID: 890-3201-11

Date Collected: 10/13/22 07:30

Matrix: Solid

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	<0.00199	U	0.00199		mg/Kg		10/17/22 13:04	10/22/22 00:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:04	10/22/22 00:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:04	10/22/22 00:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/17/22 13:04	10/22/22 00:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:04	10/22/22 00:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/17/22 13:04	10/22/22 00:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*10/17/22 13:04*	*10/22/22 00:23*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*10/17/22 13:04*	*10/22/22 00:23*	*1*

Method: TAL SOP 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			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		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 (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 17:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 17:48	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 17:48	1
Total TPH	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*10/14/22 13:00*	*10/14/22 17:48*	*1*
o-Terphenyl	*108*		*70 - 130*	*10/14/22 13:00*	*10/14/22 17:48*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.2		4.99		mg/Kg			10/16/22 22:14	1

Client Sample ID: SW11 S2

Lab Sample ID: 890-3201-12

Date Collected: 10/13/22 07:37

Matrix: Solid

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 00:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:04	10/22/22 00:44	1

Client Sample Results

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

Job ID: 890-3201-1

Client Sample ID: SW11 S2

Date Collected: 10/13/22 07:37
Date Received: 10/13/22 13:09

Lab Sample ID: 890-3201-12

Matrix: Solid

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

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 - Total BTEX Calculation

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 - Diesel Range Organics (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 - Diesel Range Organics (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 C10-C28)	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 18:10	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 18:10	1
Total TPH	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*127*		*70 - 130*	*10/14/22 13:00*	*10/14/22 18:10*	*1*
o-Terphenyl	*126*		*70 - 130*	*10/14/22 13:00*	*10/14/22 18:10*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Client Sample ID: SW13 S2

Date Collected: 10/13/22 07:45
Date Received: 10/13/22 13:09

Lab Sample ID: 890-3201-13

Matrix: Solid

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 01:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:04	10/22/22 01:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:04	10/22/22 01:04	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/17/22 13:04	10/22/22 01:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:04	10/22/22 01:04	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/17/22 13:04	10/22/22 01:04	1

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*

Client Sample Results

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

Job ID: 890-3201-1

Client Sample ID: SW13 S2

Date Collected: 10/13/22 07:45
Date Received: 10/13/22 13:09

Lab Sample ID: 890-3201-13
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

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 - Diesel Range Organics (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	1

Method: SW846 8015B NM - Diesel Range Organics (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 18:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/14/22 13:00	10/14/22 18:31	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/14/22 13:00	10/14/22 18:31	1
Total TPH	<49.9	U	49.9		mg/Kg		10/14/22 13:00	10/14/22 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*10/14/22 13:00*	*10/14/22 18:31*	*1*
o-Terphenyl	*114*		*70 - 130*	*10/14/22 13:00*	*10/14/22 18:31*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.3**		5.02		mg/Kg			10/16/22 22:48	1

Client Sample ID: SW14 S2

Date Collected: 10/13/22 07:05
Date Received: 10/13/22 13:09

Lab Sample ID: 890-3201-14
Matrix: Solid

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*

Method: TAL SOP Total BTEX - Total BTEX Calculation

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 - Diesel Range Organics (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	1

Method: SW846 8015B NM - Diesel Range Organics (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 18:53	1

Eurofins Carlsbad

Client Sample Results

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

Job ID: 890-3201-1

Client Sample ID: SW14 S2

Date Collected: 10/13/22 07:05
Date Received: 10/13/22 13:09

Lab Sample ID: 890-3201-14
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/14/22 13:00	10/14/22 18:53	1
OII 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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.80		5.00		mg/Kg			10/16/22 23:13	1

Client Sample ID: SW15 S2

Date Collected: 10/13/22 08:02
Date Received: 10/13/22 13:09

Lab Sample ID: 890-3201-15
Matrix: Solid

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 - Total BTEX Calculation

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		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 (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 15:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/14/22 13:00	10/14/22 15:39	1
OII 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*

Client Sample Results

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
Date Received: 10/13/22 13:09

Lab Sample ID: 890-3201-15
Matrix: Solid

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.7		5.00		mg/Kg			10/16/22 23:21	1

Surrogate Summary

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

Job ID: 890-3201-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-3201-1	H1 S2 6'0	122	98
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	123	98
890-3201-5	H5 S2 0.6'	117	94
890-3201-6	H6 S2 0'6"	117	99
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
890-3201-13	SW13 S2	115	89
890-3201-14	SW14 S2	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
LCSD 880-37157/2-A	Lab Control Sample Dup	95	88
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**

		Percent Surrogate Recovery (Acceptance Limits)	
		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

Surrogate Summary

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

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (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

Job ID: 890-3201-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-37156/5-A
Matrix: Solid
Analysis Batch: 37265

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 37156

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<en. ene	U0n00200	K	0n00200		7 g/5g		10/1B/22 12:z2	10/19/22 11:z0	1
Toluene	U0n00200	K	0n00200		7 g/5g		10/1B/22 12:z2	10/19/22 11:z0	1
Ethylben. ene	U0n00200	K	0n00200		7 g/5g		10/1B/22 12:z2	10/19/22 11:z0	1
7 -&ylene p , -&ylene	U0n00X00	K	0n00X00		7 g/5g		10/1B/22 12:z2	10/19/22 11:z0	1
o-&ylene	U0n00200	K	0n00200		7 g/5g		10/1B/22 12:z2	10/19/22 11:z0	1
&ylenes4Total	U0n00X00	K	0n00X00		7 g/5g		10/1B/22 12:z2	10/19/22 11:z0	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*13*		*8+ - 70+*	*7+6786 / 7/ 2 /*	*7+6716 / 772 +*	*7*
7,4-Difluorobenzene (Surr)	*9+*		*8+ - 70+*	*7+6786 / 7/ 2 /*	*7+6716 / 772 +*	*7*

Lab Sample ID: LCS 880-37156/1-A
Matrix: Solid
Analysis Batch: 37265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 37156

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
<en. ene			0n100	0n108H		7 g/5g		109	B0 - 130		
Toluene			0n100	0n1223		7 g/5g		122	B0 - 130		
Ethylben. ene			0n100	0n1182		7 g/5g		118	B0 - 130		
7 -&ylene p , -&ylene			0n200	0n2z3X		7 g/5g		12B	B0 - 130		
o-&ylene			0n100	0n123H		7 g/5g		12X	B0 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*7+4*		*8+ - 70+*
7,4-Difluorobenzene (Surr)	*9+*		*8+ - 70+*

Lab Sample ID: LCSD 880-37156/2-A
Matrix: Solid
Analysis Batch: 37265

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 37156

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
<en. ene			0n100	0n103H		7 g/5g		10X	B0 - 130	z	3z
Toluene			0n100	0n10B0		7 g/5g		10B	B0 - 130	13	3z
Ethylben. ene			0n100	0n1032		7 g/5g		103	B0 - 130	1X	3z
7 -&ylene p , -&ylene			0n200	0n21zz		7 g/5g		108	B0 - 130	1H	3z
o-&ylene			0n100	0n10B2		7 g/5g		10B	B0 - 130	1X	3z

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

Lab Sample ID: MB 880-37157/5-A
Matrix: Solid
Analysis Batch: 37452

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 37157

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<en. ene	U0n00200	K	0n00200		7 g/5g		10/1B/22 13:0X	10/21/22 22:38	1
Toluene	U0n00200	K	0n00200		7 g/5g		10/1B/22 13:0X	10/21/22 22:38	1

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

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 37157

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylben. ene	U0n00200	K	0n00200		7 g/5g		10/1B/22 13:0X	10/21/22 22:38	1
7 -&ylene p , -&ylene	U0n00X00	K	0n00X00		7 g/5g		10/1B/22 13:0X	10/21/22 22:38	1
o-&ylene	U0n00200	K	0n00200		7 g/5g		10/1B/22 13:0X	10/21/22 22:38	1
&ylenes4Total	U0n00X00	K	0n00X00		7 g/5g		10/1B/22 13:0X	10/21/22 22:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*7+7*		*8+ - 70+*	*7+6/86/ 702+4*	*7+6/76/ //209*	*7*
7,4-Difluorobenzene (Surr)	*94*		*8+ - 70+*	*7+6/86/ 702+4*	*7+6/76/ //209*	*7*

Lab Sample ID: LCS 880-37157/1-A
Matrix: Solid
Analysis Batch: 37452

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
<en. ene			0n100	0n1z8		7 g/5g		11H	B0 - 130		
Toluene			0n100	0n118H		7 g/5g		119	B0 - 130		
Ethylben. ene			0n100	0n10z1		7 g/5g		10z	B0 - 130		
7 -&ylene p , -&ylene			0n200	0n233X		7 g/5g		11B	B0 - 130		
o-&ylene			0n100	0n1181		7 g/5g		118	B0 - 130		

Surrogate	*LCS %Recovery*	*LCS 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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
<en. ene			0n100	0n0999X		7 g/5g		100	B0 - 130	1z	3z
Toluene			0n100	0n1028		7 g/5g		103	B0 - 130	1X	3z
Ethylben. ene			0n100	0n09HB8		7 g/5g		9B	B0 - 130	8	3z
7 -&ylene p , -&ylene			0n200	0n20HX		7 g/5g		103	B0 - 130	12	3z
o-&ylene			0n100	0n10z1		7 g/5g		10z	B0 - 130	12	3z

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

Lab Sample ID: 890-3201-7 MS
Matrix: Solid
Analysis Batch: 37452

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
<en. ene	U0n00198	K	0n099H	0n0B9Bz		7 g/5g		80	B0 - 130		
Toluene	U0n00198	K	0n099H	0n0B880		7 g/5g		B8	B0 - 130		
Ethylben. ene	U0n00198	K	0n099H	0n0B10X		7 g/5g		B1	B0 - 130		
7 -&ylene p , -&ylene	U0n0039B	K	0n199	0n1X9H		7 g/5g		Bz	B0 - 130		

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: 890-3201-7 MS
Matrix: Solid
Analysis Batch: 37452

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
o-&ylene	U0n00198	K	0n099H	0n0BB10		7 g/5g		BB	B0 - 130		

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

Lab Sample ID: 890-3201-7 MSD
Matrix: Solid
Analysis Batch: 37452

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
<en. ene	U0n00198	K	0n100	0n09z88		7 g/5g		9H	B0 - 130	18	3z
Toluene	U0n00198	K	0n100	0n09XB1		7 g/5g		9X	B0 - 130	18	3z
Ethylben. ene	U0n00198	K	0n100	0n08z13		7 g/5g		8z	B0 - 130	18	3z
7 -&ylene p , -&ylene	U0n0039B	K	0n200	0n1B8X		7 g/5g		89	B0 - 130	18	3z
o-&ylene	U0n00198	K	0n100	0n09011		7 g/5g		90	B0 - 130	1H	3z

Surrogate	*MSD %Recovery*	*MSD 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

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 37402

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<en. ene	U0n00200	K	0n00200		7 g/5g		10/20/22 11:X0	10/21/22 11:18	1
Toluene	U0n00200	K	0n00200		7 g/5g		10/20/22 11:X0	10/21/22 11:18	1
Ethylben. ene	U0n00200	K	0n00200		7 g/5g		10/20/22 11:X0	10/21/22 11:18	1
7 -&ylene p , -&ylene	U0n00X00	K	0n00X00		7 g/5g		10/20/22 11:X0	10/21/22 11:18	1
o-&ylene	U0n00200	K	0n00200		7 g/5g		10/20/22 11:X0	10/21/22 11:18	1
&ylenes4Total	U0n00X00	K	0n00X00		7 g/5g		10/20/22 11:X0	10/21/22 11:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*7+:*		*8+ - 70+*	*7+6/ +6/ / 7724+*	*7+6/ 76/ / 7727/9*	*7*
7,4-Difluorobenzene (Surr)	*93*		*8+ - 70+*	*7+6/ +6/ / 7724+*	*7+6/ 76/ / 7727/9*	*7*

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

Lab Sample ID: MB 880-36939/1-A
Matrix: Solid
Analysis Batch: 36918

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 36939

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oasoline Range (rganics)OR(6-CH-C10	Uz0n0	K	z0n0		7 g/5g		10/1X/22 09:0B	10/1X/22 09:zz	1
Diesel Range (rganics)(ver C10-C286	Uz0n0	K	z0n0		7 g/5g		10/1X/22 09:0B	10/1X/22 09:zz	1
(ll Range (rganics)(ver C28-C3H6	Uz0n0	K	z0n0		7 g/5g		10/1X/22 09:0B	10/1X/22 09:zz	1

EuroGns Carlsbad

QC Sample Results

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

Job ID: 890-3201-1

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

Lab Sample ID: MB 880-36939/1-A
Matrix: Solid
Analysis Batch: 36918

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 36939

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPf	Uz0r0	K	z0r0		7 g/5g		10/1X/22 09:0B	10/1X/22 09:zz	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
7-Chlorooctane	*704*	*S75*	*8+ - 70+*	*7+6746 / +12+8*	*7+6746 / +12 :*	*7*
o-Terphenyl	*74+*	*S75*	*8+ - 70+*	*7+6746 / +12+8*	*7+6746 / +12 :*	*7*

Lab Sample ID: LCS 880-36939/2-A
Matrix: Solid
Analysis Batch: 36918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 36939

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Oasoline Range (rganics)OR(6-CH-C10			1000	83Brhl		7 g/5g		8X	B0 - 130		
Diesel Range (rganics)(ver C10-C286			1000	10z8		7 g/5g		10H	B0 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
7-Chlorooctane	*34*	*S7-*	*8+ - 70+*
o-Terphenyl	*81*		*8+ - 70+*

Lab Sample ID: LCSD 880-36939/3-A
Matrix: Solid
Analysis Batch: 36918

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 36939

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Oasoline Range (rganics)OR(6-CH-C10			1000	80zr6		7 g/5g		81	B0 - 130	X	20
Diesel Range (rganics)(ver C10-C286			1000	10z3		7 g/5g		10z	B0 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
7-Chlorooctane	*3:*	*S7-*	*8+ - 70+*
o-Terphenyl	*97*		*8+ - 70+*

Lab Sample ID: MB 880-36940/1-A
Matrix: Solid
Analysis Batch: 36920

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 36940

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oasoline Range (rganics)OR(6-CH-C10	Uz0r0	K	z0r0		7 g/5g		10/1X/22 09:09	10/1X/22 09:zz	1
Diesel Range (rganics)(ver C10-C286	Uz0r0	K	z0r0		7 g/5g		10/1X/22 09:09	10/1X/22 09:zz	1
(ll Range (rganics)(ver C28-C3H6	Uz0r0	K	z0r0		7 g/5g		10/1X/22 09:09	10/1X/22 09:zz	1
Total TPf	Uz0r0	K	z0r0		7 g/5g		10/1X/22 09:09	10/1X/22 09:zz	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
7-Chlorooctane	*771*		*8+ - 70+*	*7+6746 / +12+1*	*7+6746 / +12 :*	*7*
o-Terphenyl	*70:*	*S75*	*8+ - 70+*	*7+6746 / +12+1*	*7+6746 / +12 :*	*7*

QC Sample Results

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

Job ID: 890-3201-1

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

Lab Sample ID: LCS 880-36940/2-A
Matrix: Solid
Analysis Batch: 36920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 36940

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Oasoline Range (rganics)OR(6-CH-C10			1000	901n2		7 g/5g		90	B0 - 130		
Diesel Range (rganics)(ver C10-C286			1000	928n0		7 g/5g		93	B0 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
7-Chlorooctane	*11*		*8+ - 70+*
o-Terphenyl	*77/*		*8+ - 70+*

Lab Sample ID: LCSD 880-36940/3-A
Matrix: Solid
Analysis Batch: 36920

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 36940

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Oasoline Range (rganics)OR(6-CH-C10			1000	92Xn1		7 g/5g		92	B0 - 130	3	20
Diesel Range (rganics)(ver C10-C286			1000	93Xn0		7 g/5g		93	B0 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
7-Chlorooctane	*19*		*8+ - 70+*
o-Terphenyl	*777*		*8+ - 70+*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-36987/1-A
Matrix: Solid
Analysis Batch: 37028

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	Uzn00	K	zn00		7 g/5g			10/1H/22 19:z3	1

Lab Sample ID: LCS 880-36987/2-A
Matrix: Solid
Analysis Batch: 37028

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			2z0	2X0n9		7 g/5g		9H	90 - 110		

Lab Sample ID: LCSD 880-36987/3-A
Matrix: Solid
Analysis Batch: 37028

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			2z0	2X9n		7 g/5g		100	90 - 110	3	20

QC Sample Results

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

Job ID: 890-3201-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-3201-1 MS
Matrix: Solid
Analysis Batch: 37028

Client Sample ID: H1 S2 6'0
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	[illegible]		2[illegible]0	2[illegible]		7 g/5 g		10[illegible]	90 - 110

Lab Sample ID: 890-3201-1 MSD
Matrix: Solid
Analysis Batch: 37028

Client Sample ID: H1 S2 6'0
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	[illegible]		2[illegible]0	2[illegible]		7 g/5 g		9[illegible]	90 - 110	[illegible]	20

Lab Sample ID: 890-3201-11 MS
Matrix: Solid
Analysis Batch: 37028

Client Sample ID: SW10 S2
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	[illegible]		2[illegible]0	2[illegible]		7 g/5 g		99	90 - 110

Lab Sample ID: 890-3201-11 MSD
Matrix: Solid
Analysis Batch: 37028

Client Sample ID: SW10 S2
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	[illegible]		2[illegible]0	2[illegible]		7 g/5 g		98	90 - 110	1	20

QC Association Summary

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

Job ID: 890-3201-1

GC VOA

Prep Batch: 2849L

bal Sample ID	Client Sample ID	Prep Type	x atrid	x etho6	Prep Batch
890-3201-1	H1 S2 6'0	Total/NA	Solid	5035	
890-3201-2	H2 S2 6'0	Total/NA	Solid	5035	
890-3201-3	H3 S2 1'6	Total/NA	Solid	5035	
890-3201-4	H4 S2 1'0	Total/NA	Solid	5035	
890-3201-5	H5 S2 0.6'	Total/NA	Solid	5035	
890-3201-6	H6 S2 0'6"	Total/NA	Solid	5035	
MB 880-37156/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-37156/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-37156/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 28498

bal Sample ID	Client Sample ID	Prep Type	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 ID	Client Sample ID	Prep Type	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 ID	Client Sample ID	Prep Type	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

Job ID: 890-3201-1

GC VOA 0Continue6(

Analysis Batch: 28221 0Continue6(

bal Sample D	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 D	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

QC Association Summary

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

Job ID: 890-3201-1

GC Semi VOA

Analysis Batch: 2L573

bal Sample ID	Client Sample ID	Prep Type	x atrid	x etho6	Prep Batch
890-3201-15	SW15 S2	Total/NA	Solid	8015B NM	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 ID	Client Sample ID	Prep Type	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 ID	Client Sample ID	Prep Type	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 ID	Client Sample ID	Prep Type	x atrid	x etho6	Prep Batch
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	
890-3201-9	H12 S2 1'0"	Total/NA	Solid	8015 NM	
890-3201-10	SW8 S2	Total/NA	Solid	8015 NM	
890-3201-11	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	
890-3201-14	SW14 S2	Total/NA	Solid	8015 NM	
890-3201-15	SW15 S2	Total/NA	Solid	8015 NM	

QC Association Summary

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

Job ID: 890-3201-1

HPbC/DC

beach Batch: 2L518

bal Sample D	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 D	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

Lab Chronicle

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

Job ID: 890-3201-1

Client Sample ID: H1 S2 6'0

Lab Sample ID: 890-3201-1

Date Collected: 10/13/22 06:00

Matrix: Solid

Date Received: 10/13/22 13:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	CH	EET MID

Client Sample ID: H2 S2 6'0

Lab Sample ID: 890-3201-2

Date Collected: 10/13/22 06:08

Matrix: Solid

Date Received: 10/13/22 13:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 890-3201-3

Date Collected: 10/13/22 06:15

Matrix: Solid

Date Received: 10/13/22 13:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 890-3201-4

Date Collected: 10/13/22 06:22

Matrix: Solid

Date Received: 10/13/22 13:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

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Lab Chronicle

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

Job ID: 890-3201-1

Client Sample ID: H4 S2 1'0

Lab Sample ID: 890-3201-4

Date Collected: 10/13/22 06:22

Matrix: Solid

Date Received: 10/13/22 13:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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'

Lab Sample ID: 890-3201-5

Date Collected: 10/13/22 06:30

Matrix: Solid

Date Received: 10/13/22 13:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	CH	EET MID

Client Sample ID: H6 S2 0'6"

Lab Sample ID: 890-3201-6

Date Collected: 10/13/22 06:40

Matrix: Solid

Date Received: 10/13/22 13:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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"

Lab Sample ID: 890-3201-7

Date Collected: 10/13/22 06:47

Matrix: Solid

Date Received: 10/13/22 13:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Chronicle

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

Job ID: 890-3201-1

Client Sample ID: H7 S2 1'0"

Lab Sample ID: 890-3201-7

Date Collected: 10/13/22 06:47

Matrix: Solid

Date Received: 10/13/22 13:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	CH	EET MID

Client Sample ID: H9 S2 1'0"

Lab Sample ID: 890-3201-8

Date Collected: 10/13/22 07:00

Matrix: Solid

Date Received: 10/13/22 13:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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"

Lab Sample ID: 890-3201-9

Date Collected: 10/13/22 07:10

Matrix: Solid

Date Received: 10/13/22 13:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	CH	EET MID

Client Sample ID: SW8 S2

Lab Sample ID: 890-3201-10

Date Collected: 10/13/22 07:18

Matrix: Solid

Date Received: 10/13/22 13:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Chronicle

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

Job ID: 890-3201-1

Client Sample ID: SW10 S2

Lab Sample ID: 890-3201-11

Date Collected: 10/13/22 07:30

Matrix: Solid

Date Received: 10/13/22 13:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	10/22/22 00:23	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 17:48	SM	EET MID
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 22:14	CH	EET MID

Client Sample ID: SW11 S2

Lab Sample ID: 890-3201-12

Date Collected: 10/13/22 07:37

Matrix: Solid

Date Received: 10/13/22 13:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	CH	EET MID

Client Sample ID: SW13 S2

Lab Sample ID: 890-3201-13

Date Collected: 10/13/22 07:45

Matrix: Solid

Date Received: 10/13/22 13:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 890-3201-14

Date Collected: 10/13/22 07:05

Matrix: Solid

Date Received: 10/13/22 13:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Eurofins Carlsbad

Lab Chronicle

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

Job ID: 890-3201-1

Client Sample ID: SW14 S2

Lab Sample ID: 890-3201-14

Date Collected: 10/13/22 07:05

Matrix: Solid

Date Received: 10/13/22 13:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 890-3201-15

Date Collected: 10/13/22 08:02

Matrix: Solid

Date Received: 10/13/22 13:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Accreditation/Certification Summary

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

Job ID: 890-3201-1

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

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

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:

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

Sample Summary

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

Job ID: 890-3201-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3201-1	H1 S2 6'0	Solid	10/13/22 06:00	10/13/22 13:09	6
890-3201-2	H2 S2 6'0	Solid	10/13/22 06:08	10/13/22 13:09	6
890-3201-3	H3 S2 1'6	Solid	10/13/22 06:15	10/13/22 13:09	1.0
890-3201-4	H4 S2 1'0	Solid	10/13/22 06:22	10/13/22 13:09	.6
890-3201-5	H5 S2 0.6'	Solid	10/13/22 06:30	10/13/22 13:09	.6
890-3201-6	H6 S2 0'6"	Solid	10/13/22 06:40	10/13/22 13:09	1
890-3201-7	H7 S2 1'0"	Solid	10/13/22 06:47	10/13/22 13:09	1
890-3201-8	H9 S2 1'0"	Solid	10/13/22 07:00	10/13/22 13:09	1
890-3201-9	H12 S2 1'0"	Solid	10/13/22 07:10	10/13/22 13:09	
890-3201-10	SW8 S2	Solid	10/13/22 07:18	10/13/22 13:09	
890-3201-11	SW10 S2	Solid	10/13/22 07:30	10/13/22 13:09	
890-3201-12	SW11 S2	Solid	10/13/22 07:37	10/13/22 13:09	
890-3201-13	SW13 S2	Solid	10/13/22 07:45	10/13/22 13:09	
890-3201-14	SW14 S2	Solid	10/13/22 07:05	10/13/22 13:09	
890-3201-15	SW15 S2	Solid	10/13/22 08:02	10/13/22 13:09	

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager:	JR Curtis	Bill to: (If different)	
Company Name:	Contango	Company Name:	
Address:	11405 Lovington Hwy	Address:	
City, State ZIP:	Artesia NM 88210	City, State ZIP:	
Phone:	575-420-8175	Email:	JR.Curtis@contango.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Karlsbad Canal SWD 2	Turn Around	
Project Number:		☒ Routine ☐ Rush	
Project Location:		Due Date:	
Sampler's Name:	JR Curtis	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	TMM007	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.2	
Total Containers:		Corrected Temperature:	1.0	

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chloride	BTEX	TPH - GRO DRO ORO	Sample Comments
H1 S2 6'.0	S	10-13-22	6:00AM	6Ft	Grab	1	X	X	X	
H2 S2 6'0	S		6:08AM	6Ft						
H3 S2 1'6"	S		6:15AM	1'6						
H4 S2 1'0"	S		6:22AM	1'0						
H5 S2 0'6"	S		6:30AM	0'6						
H6 S2 0'6"	S		6:40AM	0'6						
H7 S2 1'0"	S		6:47AM	1'0						
H9 S2 1'0'	S		7:00AM	1'0						
H12 S2 1'0"	S		7:10AM	1'0						

890-3201 Chain of Custody

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 Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins 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 losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		10-13-22 1309	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 2 of 2

Project Manager:	JR Curtis	Bill to: (if different)	
Company Name:	Contango	Company Name:	
Address:	11405 Lovington Hwy	Address:	
City, State ZIP:	Artesia NM 88210	City, State ZIP:	
Phone:	575-420-8175	Email:	JR.Curtis@Contango.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Karlsbad Coral SWD 2	Turn Around	
Project Number:		☒ Routine ☐ Rush	
Project Location:		Due Date:	
Sampler's Name:	JR Curtis	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride	BTEX	TPH - GRO, DRO, ORO
SW 8 S2	S	10-13-22	7:18AM		Grab	1		X	X	X
SW 10 S2	S		7:30AM							
SW 11 S2	S		7:37AM							
SW 13 S2	S		7:45AM							
SW 14 S2	S		7:55AM							
SW 15 S2	S		8:02AM							

ANALYSIS REQUEST

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2SO_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Clue Cup	10.13.22	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Contango Resources LLC Job Number: 890-3201-1

Login Number: 3201 **List Source: Eurofins Carlsbad**
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	

Login Sample Receipt Checklist

Client: Contango Resources LLC Job Number: 890-3201-1

Login Number: 3201 **List Source: Eurofins Midland**
List Number: 2 **List Creation: 10/14/22 11:49 AM**
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 <6mm (1/4").	N/A	

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

1/31/23

Responsible Party: Contango Resources, LLC	OGRID 330447
Contact Name: Chet Stuart	Contact Telephone: (713) 236-7530
Contact email: CStuart@contango.com	Incident # **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
M	11	25S	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.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2214547419
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? An excess of 25 barrels was released to the environment.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Yes, email notification to Mike Bratcher OCD 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

☒ 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
Title: Manager-EHS, Ops Support & Production

Signature: Chet Stuart
Date: 5/24/2022

email: CStuart@contango.com
Telephone: 713-236-7530

OCD Only

Received by: Jocelyn Harimon
Date: 01/31/2023

State of New Mexico
Oil Conservation Division

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2214547419
District RP	
Facility ID	
Application ID	

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

Printed Name: 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

Incident ID	NAPP2214547419
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

☐ Extents of contamination must be fully delineated.

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

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

State of New Mexico
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.***

1/31/23

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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

Printed Name: 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

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

APPENDIX F

Manifests

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 # 31107

Date: 6/1/2022

AFE Number:

Charge to: Karlsbad Corral SWD #2

Req: JR Curtis

Date(s) of Service: 05/24/22 - 05/26/22

Manifest #: 155674, 155773, 155867

Ship Via: Tex Mex Rentals

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
Sales tax rate	5.500%
Sales tax	$86.90
Total	**$1,666.90**

TERMS: NET 30

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!

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 Tex Mex

NON-HAZARDOUS WASTE MANIFEST NO 155674 | 1. PAGE ___ OF ___ | 2. TRAILER NO. #137

GENERATOR

3. COMPANY NAME	4. ADDRESS			5. PICK-UP DATE
CONTANGO RESOURCES	717 Texas Ave, Suite 2900			5/24/2022
PHONE NO.	CITY	STATE	ZIP	6. TNRCC I.D. NO.
(713) 236-7400	Houston	TX	77002	

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
a. Non-Regulated, Non Hazardous Waste	1	CM		Y	
b.					
c.					
d. WT: 35520					

12. COMMENTS OR SPECIAL INSTRUCTIONS:	13. WASTE PROFILE NO.
KARLSBAD CORRAL SWD #2	

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME	PHONE NO	24-HOUR EMERGENCY NO.
JOE ONTIVEROS	575-887-4048	

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

PRINTED/TYPED NAME	SIGNATURE	DATE
COMAN JR. CURTIS		

TRANSPORTERS

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME: TEX MEX RENTALS	NAME:
TEXAS I.D. NO.	TEXAS I.D. NO.
IN CASE OF EMERGENCY CONTACT: RON TODD	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE: (575) 402-0889	EMERGENCY PHONE:
18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPORTER (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME: Debra Acosta	PRINTED/TYPED NAME:
SIGNATURE: Debra Acosta DATE: 5/24/2022	SIGNATURE DATE

DISPOSAL FACILITY

	ADDRESS:	PHONE:
Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	575-887-4048

PERMIT NO.	20. COMMENTS
WM-01-035 - New Mexico	

21. DISPOSAL FACILITY'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 wastes.

AUTHORIZED SIGNATURE	CELL NO.	DATE	TIME
Branda Carrillo		5/24/2022	1:35

GENERATOR: COPIES 1 & 6 DISPOSAL SITE: COPIES 2 & 3 TRANSPORTERS: COPIES 4 & 5

COPY 1

LEA LAND DISPOSAL SITE NEW MEXICO

?58h

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

Tex Mex

NON-HAZARDOUS WASTE MANIFEST NO 155773 | 1. PAGE __ OF __ | 2. TRAILER NO. #37

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CONTANGO RESOURCES	717 Texas Ave, Suite 2900	5/25/2022
PHONE NO.	CITY / STATE / ZIP	6. TNRCC I.D. NO.
(713) 236-7400	Houston / TX / 77002	

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	8. CONTAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
a. Non-Regulated, Non Hazardous Waste	1	CM		y	
b.					
c.					
d. WT: 39020 47280					

12. COMMENTS OR SPECIAL INSTRUCTIONS:	13. WASTE PROFILE NO.
KARLSBAD CORRAL SWD #2 TQ 86300	

TREATMENT

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME	PHONE NO	24-HOUR EMERGENCY NO.
JOE ONTIVEROS	575-887-4048	

OPERATOR

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

PRINTED/TYPED NAME	SIGNATURE	DATE
COMAN JR CURTIS		

TRANSPORTERS

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME: TEX MEX RENTALS	NAME:
TEXAS I.D. NO.	TEXAS I.D. NO.
IN CASE OF EMERGENCY CONTACT: RON TODD	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE: (575) 492-0888	EMERGENCY PHONE:
18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPORTER (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME: Debra Acosta	PRINTED/TYPED NAME:
SIGNATURE: Debra Acosta DATE: 5/25/2022	SIGNATURE DATE

DISPOSAL FACILITY

	ADDRESS:	PHONE:
Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	575-887-4048

PERMIT NO.	20. COMMENTS
WM-01-035 - New Mexico	

21. DISPOSAL FACILITY'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 wastes.

AUTHORIZED SIGNATURE	CELL NO.	DATE	TIME
Brianda Carrillo		5/25/2022	11:30

GENERATOR: COPIES 1 & 6 DISPOSAL SITE: COPIES 2 & 3 TRANSPORTERS: COPIES 4 & 5

LEA LAND DISPOSAL SITE NEW MEXICO

?58h 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 Tex Mex

NON-HAZARDOUS WASTE MANIFEST NO 155867 | 1. PAGE __ OF __ | 2. TRAILER NO. #50

GENERATOR

3. COMPANY NAME	4. ADDRESS			5. PICK-UP DATE
CONTANGO RESOURCES	717 Texas Ave, Suite 2900			5/26/2022
PHONE NO.	CITY	STATE	ZIP	6. TNRCC I.D. NO.
(713) 236-7400	Houston	TX	77002	

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
a. Non-Regulated, Non Hazardous Waste	1	CM		Y	
b.					
c.					
d. WT: 36180					

12. COMMENTS OR SPECIAL INSTRUCTIONS:	13. WASTE PROFILE NO.
KARLSBAD CORRAL SWD #2	

TO

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME	PHONE NO	24-HOUR EMERGENCY NO.
JOE ONTIVEROS	575-887-4048	

OR

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

PRINTED/TYPED NAME	SIGNATURE	DATE
COMANDR CURTIS		

TRANSPORTERS

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME: TEX MEX RENTALS	NAME:
TEXAS I.D. NO.	TEXAS I.D. NO.
IN CASE OF EMERGENCY CONTACT: RON TODD	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE: (575) 492-0888	EMERGENCY PHONE:
18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPORTER (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME: Debra Acosta	PRINTED/TYPED NAME:
SIGNATURE: Debra Acosta DATE: 5/26/2022	SIGNATURE: DATE:

DISPOSAL FACILITY

	ADDRESS:	PHONE:
Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	575-887-4048

PERMIT NO.	20. COMMENTS
WM-01-035 - New Mexico	

21. **DISPOSAL FACILITY'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 wastes.

AUTHORIZED SIGNATURE	CELL NO.	DATE	TIME
Brenda Camila		5/26/2022	1:10

GENERATOR: COPIES 1 & 6 DISPOSAL SITE: COPIES 2 & 3 TRANSPORTERS: COPIES 4 & 5

COPY 1

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 # 31154

Date: **6/8/2022**

AFE Number:

Charge to: Karlsbad Corral SWD 2

Req: JR Curtis

Date(s) of Service: 05/27/22 - 06/02/22

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
		Landfill located at Carlsbad, NM		

Subtotal	$1,340.80
Sales tax rate	5.500%
Sales tax	$73.74
Total	**$1,414.54**

TERMS: NET 30

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!

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

TEX MEX

NON-HAZARDOUS WASTE MANIFEST NO 155946 | 1. PAGE ___ OF ___ | 2. TRAILER NO. 37

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CONTANGO RESOURCES	717 Texas Ave, Suite 2900	5/27/2022
PHONE NO.	CITY / STATE / ZIP	6. TNRCC I.D. NO.
(713) 236-7400	Houston TX 77002	

WASTE

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
a. Non-Regulated Non Hazardous Waste	1	CM			
b.					
c.					
d. WT 41360 43680					

TREATMENT

12. COMMENTS OR SPECIAL INSTRUCTIONS:	13. WASTE PROFILE NO.
KARLSBAD CORRAL SWD #2 to 90040	

EMERGENCY

14. IN CASE OF EMERGENCY OR SPILL, CONTACT		
NAME	PHONE NO	24-HOUR EMERGENCY NO.
JOE ONTIVEROS	575-887-4048	

GENERATOR

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

PRINTED/TYPED NAME	SIGNATURE	DATE
J. COMAN R. CURTIS		

TRANSPORTERS

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME: TEX MEX RENTALS	NAME:
TEXAS I.D. NO.	TEXAS I.D. NO.
IN CASE OF EMERGENCY CONTACT: RON TODD	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE: (575) 492-0888	EMERGENCY PHONE:
18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPORTER (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME: Debra Acosta	PRINTED/TYPED NAME:
SIGNATURE: Debra Acosta DATE: 5/27/2022	SIGNATURE DATE

DISPOSAL FACILITY

	ADDRESS:	PHONE:
Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	575-887-4048

PERMIT NO.	20. COMMENTS
WM-01-035 - New Mexico	

21. **DISPOSAL FACILITY'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 wastes.

AUTHORIZED SIGNATURE	CELL NO.	DATE	TIME
Joe Ontiveros		5/27/2022	1050

GENERATOR: COPIES 1 & 6 | DISPOSAL SITE: COPIES 2 & 3 | TRANSPORTERS: COPIES 4 & 5

COPY 1

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 Tex Mex

NON-HAZARDOUS WASTE MANIFEST NO 155947 | 1. PAGE ___ OF ___ | 2. TRAILER NO. 28

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CONTANGO RESOURCES	717 Texas Ave, Suite 2900	5/27/2022
PHONE NO.	**CITY / STATE / ZIP**	**6. TNRCC I.D. NO.**
(713) 236-7400	Houston / TX / 77002	

WASTE

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
a. Non-Regulated, Non Hazardous Waste	1	CM			
b.					
c.					
d. WT: 414040					

DESTINATION

12. COMMENTS OR SPECIAL INSTRUCTIONS:	13. WASTE PROFILE NO.
KARLSBAD CORRAL SWD #2	

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME	PHONE NO	24-HOUR EMERGENCY NO.
JOE ONTIVEROS	575-887-4048	

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

PRINTED/TYPED NAME	SIGNATURE	DATE
CO MAN JR CURTIS		

TRANSPORTERS

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME: TEX MEX RENTALS	NAME:
TEXAS I.D. NO.	TEXAS I.D. NO.
IN CASE OF EMERGENCY CONTACT: RON TODD	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE: (575) 492-0888	EMERGENCY PHONE:
18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPORTER (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME: Holly Sosa	PRINTED/TYPED NAME:
SIGNATURE: Holly Sosa DATE: 5/27/2022	SIGNATURE: DATE:

DISPOSAL FACILITY

Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS	

21. DISPOSAL FACILITY'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 wastes.

AUTHORIZED SIGNATURE	CELL NO.	DATE	TIME
Joe Ontiveros		5/27/2022	1050

GENERATOR: COPIES 1 & 6 | DISPOSAL SITE: COPIES 2 & 3 | TRANSPORTERS: COPIES 4 & 5

COPY 1

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

TEX MEX

NON-HAZARDOUS WASTE MANIFEST NO 156038 | 1. PAGE __ OF __ | 2. TRAILER NO. 37

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CONTANGO RESOURCES	717 Texas Ave, Suite 2800	5/31/2022
PHONE NO.	CITY / STATE / ZIP	6. TNRCC I.D. NO.
(713) 236-7400	Houston / TX / 77002	

WASTE

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
a. Non-Regulated, Non Hazardous Waste	1	CM		Y	
b.					
c.					
d. WT: 52740					

DESTINATION

12. COMMENTS OR SPECIAL INSTRUCTIONS:	13. WASTE PROFILE NO.
KARLSBAD CORRAL SWD #2	

EMERGENCY

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME	PHONE NO	24-HOUR EMERGENCY NO.
JOE ONTIVEROS	575-887-4048	

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

PRINTED/TYPED NAME	SIGNATURE	DATE
COLMAN R. CURTIS		

TRANSPORTERS

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME: TEX MEX RENTALS	NAME:
TEXAS I.D. NO.	TEXAS I.D. NO.
IN CASE OF EMERGENCY CONTACT: RON TODD	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE: (575) 492-0888	EMERGENCY PHONE:
18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPORTER (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME: Debra Acosta	PRINTED/TYPED NAME:
SIGNATURE: Debra Acosta DATE: 5/31/2022	SIGNATURE DATE

DISPOSAL FACILITY

	ADDRESS:	PHONE:
Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	575-887-4048

PERMIT NO.	20. COMMENTS
WM-01-035 - New Mexico	

21. DISPOSAL FACILITY'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	TIME
		5/31/2022	316

GENERATOR: COPIES 1 & 6 | DISPOSAL SITE: COPIES 2 & 3 | TRANSPORTERS: COPIES 4 & 5

COPY 1

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 Tex Mex

NON-HAZARDOUS WASTE MANIFEST NO 156226 | 1. PAGE __ OF __ | 2. TRAILER NO. #28

GENERATOR

3. COMPANY NAME	4. ADDRESS			5. PICK-UP DATE
CONTANGO RESOURCES	717 Texas Ave, Suite 2900			6/2/2022
PHONE NO.	CITY	STATE	ZIP	6. TNRCC I.D. NO.
(713) 236-7400	Houston	TX	77002	

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
a. Non-Regulated, Non Hazardous Waste	1	CM		Y	
b.					
c.					
d. WT 52160					

12. COMMENTS OR SPECIAL INSTRUCTIONS:	13. WASTE PROFILE NO.
KARESBAD CORRAL SWD #2	

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME	PHONE NO	24-HOUR EMERGENCY NO.
JOE ONTIVEROS	575-887-4048	

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

PRINTED/TYPED NAME	SIGNATURE	DATE
COMAN JR CURTIS		

TRANSPORTERS

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME: TEX MEX RENTALS	NAME:
TEXAS I.D. NO.	TEXAS I.D. NO.
IN CASE OF EMERGENCY CONTACT: RON TODD	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE: (575) 492-0888	EMERGENCY PHONE:
18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPORTER (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME Holly Sosa	PRINTED/TYPED NAME
SIGNATURE Holly Sosa DATE 6/2/2022	SIGNATURE DATE

DISPOSAL FACILITY

Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS	

21. DISPOSAL FACILITY'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 wastes.

AUTHORIZED SIGNATURE	CELL NO.	DATE	TIME
Brenda Camillo		6/2/2022	3:30

GENERATOR: COPIES 1 & 6 DISPOSAL SITE: COPIES 2 & 3 TRANSPORTERS: COPIES 4 & 5

COPY 1

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 # 31200

Date: 6/15/2022

AFE Number:

Charge to: Karlsbad Corral SWD 2

Req: JR Curtis

Date(s) of Service: 06/03/22 - 06/07/22

Manifest #: 156329, 156424, 156531

Ship Via: Tex-Mex Rentals

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		

Subtotal	$1,900.80
Sales tax rate	5.500%
Sales tax	$104.54
Total	**$2,005.34**

TERMS: NET 30

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!

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 Tex Mex

NON-HAZARDOUS WASTE MANIFEST NO 156329 | 1. PAGE ___ OF ___ | 2. TRAILER NO. 28

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CONTANGO RESOURCES	717 Texas Ave, Suite 2900	6/3/2022
PHONE NO.	CITY / STATE / ZIP	6. TNRCC I.D. NO.
(713) 236-7400	Houston / TX / 77002	

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	8. CONTAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
a. Non-Regulated, Non Hazardous Waste	1	CM		Y	
b.					
c.					
d. WT 53220					

12. COMMENTS OR SPECIAL INSTRUCTIONS:	13. WASTE PROFILE NO.
KARLSBAD CORRAL SWD #2	

TO

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME	PHONE NO	24-HOUR EMERGENCY NO.
JOE ONTIVEROS	575-887-4048	

GENERATOR

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

PRINTED/TYPED NAME	SIGNATURE	DATE
CO MAN JR CURTIS		

TRANSPORTERS

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME: TEX MEX RENTALS	NAME:
TEXAS I.D. NO.	TEXAS I.D. NO.
IN CASE OF EMERGENCY CONTACT: RON TODD	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE: (575) 492-0888	EMERGENCY PHONE:
18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPORTER (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME: Holly Sosa	PRINTED/TYPED NAME:
SIGNATURE: Holly Sosa DATE: 6/3/2022	SIGNATURE: DATE:

DISPOSAL FACILITY

	ADDRESS:	PHONE:
Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	575-887-4048

PERMIT NO.	20. COMMENTS
WM-01-035 - New Mexico	

21. **DISPOSAL FACILITY'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 wastes.

AUTHORIZED SIGNATURE	CELL NO.	DATE	TIME
Brianda Carrillo		6/3/2022	3:50

GENERATOR: COPIES 1 & 6 | DISPOSAL SITE: COPIES 2 & 3 | TRANSPORTERS: COPIES 4 & 5

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 Tex Mex

NON-HAZARDOUS WASTE MANIFEST NO 156424 | 1. PAGE __ OF __ | 2. TRAILER NO. #28

GENERATOR

3. COMPANY NAME	4. ADDRESS			5. PICK-UP DATE
CONTANGO RESOURCES	717 Texas Ave, Suite 2900			6/8/2022
PHONE NO.	CITY	STATE	ZIP	6. TNRCC I.D. NO.
(713) 236-7400	Houston	TX	77002	

WASTE

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
a. Non-Regulated, Non Hazardous Waste	1	CM		y	
b.					
c.					
d. WT: 45820 43020					

12. COMMENTS OR SPECIAL INSTRUCTIONS:	13. WASTE PROFILE NO.
KARLSBAD CORRAL SWD #2 1a88940	

DESIGNATED FACILITY

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME	PHONE NO	24-HOUR EMERGENCY NO.
JOE ONTIVEROS	575-887-4048	

GENERATOR

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

PRINTED/TYPED NAME	SIGNATURE	DATE
CO MAN R CURTIS		

TRANSPORTERS

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME: TEX MEX RENTALS	NAME:
TEXAS I.D. NO.	TEXAS I.D. NO.
IN CASE OF EMERGENCY CONTACT: RON TODD	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE: (575) 492-0888	EMERGENCY PHONE:
18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPORTER (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME: Holly Sosa	PRINTED/TYPED NAME:
SIGNATURE: Holly Sosa DATE: 6/8/2022	SIGNATURE: DATE:

DISPOSAL FACILITY

	ADDRESS:	PHONE:
Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	575-887-4048

PERMIT NO.	20. COMMENTS
WM-01-035 - New Mexico	

21. DISPOSAL FACILITY'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 wastes.

AUTHORIZED SIGNATURE	CELL NO.	DATE	TIME
Brenda Carillo		6/8/2022	12:35

GENERATOR: COPIES 1 & 6 DISPOSAL SITE: COPIES 2 & 3 TRANSPORTERS: COPIES 4 & 5

COPY 1

LEA LAND DISPOSAL SITE NEW MEXICO

?58h

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 TEX MEX

NON-HAZARDOUS WASTE MANIFEST NO 156531 | 1. PAGE __ OF __ | 2. TRAILER NO. #28

GENERATOR

3. COMPANY NAME	4. ADDRESS			5. PICK-UP DATE
CONTANGO RESOURCES	717 Texas Ave, Suite 2900			6/7/2022
PHONE NO.	CITY	STATE	ZIP	6. TNRCC I.D. NO.
(713) 236-7400	Houston	TX	77002	

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	8. CONTAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
a. Non-Regulated, Non Hazardous Waste	1	CM			
b.					
c.					
d. WT: 48020					

12. COMMENTS OR SPECIAL INSTRUCTIONS:	13. WASTE PROFILE NO.
KARLSBAD CORRAL SWD #2	

TRANSPORTER

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME	PHONE NO	24-HOUR EMERGENCY NO.
JOE ONTIVEROS	575-887-4048	

ORIGINATOR

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

PRINTED/TYPED NAME	SIGNATURE	DATE
COMAN JR. CURTIS		

TRANSPORTERS

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME: TEX MEX RENTALS	NAME:
TEXAS I.D. NO.	TEXAS I.D. NO.
IN CASE OF EMERGENCY CONTACT: RON TODD	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE: (575) 492-0888	EMERGENCY PHONE:
18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPORTER (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME: Holly Sosa	PRINTED/TYPED NAME:
SIGNATURE: Holly Sosa DATE: 6/7/2022	SIGNATURE: DATE:

DISPOSAL FACILITY

	ADDRESS:	PHONE:
Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	575-887-4048

PERMIT NO.	20. COMMENTS
WM-01-035 - New Mexico	

21. **DISPOSAL FACILITY'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 wastes.

AUTHORIZED SIGNATURE	CELL NO.	DATE	TIME
Branda Camlb		6/7/2022	12:25

GENERATOR: COPIES 1 & 6 DISPOSAL SITE: COPIES 2 & 3 TRANSPORTERS: COPIES 4 & 5

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: **8/3/2022**

AFE Number:

Charge to: Karlsbad Corral SWD #2

Req: JR Curtis

Date(s) of Service: 07/26/22 - 07/27/22

Manifest #: 158849, 158850, 158920, 158921

Ship Via: 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
Sales tax rate	5.375%
Sales tax	$111.29
Total	**$2,181.89**

TERMS: NET 30

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!

LEA LAND DISPOSAL SITE NEW MEXICO

?58h 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 TEX MEX

NON-HAZARDOUS WASTE MANIFEST NO 158849 | 1. PAGE__OF__ | 2. TRAILER NO. 37

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CONTANGO RESOURCES	717 Texas Ave, Suite 2900	7/26/2022
PHONE NO.	CITY / STATE / ZIP	6. TNRCC I.D. NO.
(713) 236-7400	Houston / TX / 77002	

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
a. Non-Regulated, Non Hazardous Waste	1	CM		y	
b.					
c.					
d. WT: 37860 36860					

12. COMMENTS OR SPECIAL INSTRUCTIONS:	13. WASTE PROFILE NO.
KARLSBAD CORRAL SWD #2 Tc 16972D	

TRANSPORTER

14. IN CASE OF EMERGENCY OR SPILL, CONTACT		
NAME	PHONE NO	24-HOUR EMERGENCY NO.
JOE ONTIVEROS	575-887-4048	

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

PRINTED/TYPED NAME	SIGNATURE	DATE
CO MAN: JR. CURTIS		

TRANSPORTERS

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME: TEX MEX RENTALS	NAME:
TEXAS I.D. NO.	TEXAS I.D. NO.
IN CASE OF EMERGENCY CONTACT: RON TODD	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE: (575) 492-0898	EMERGENCY PHONE:
18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPORTER (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME: Debbie Acosta	PRINTED/TYPED NAME:
SIGNATURE: Debbie Acosta DATE: 7/26/2022	SIGNATURE: DATE:

DISPOSAL FACILITY

Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS	

21. **DISPOSAL FACILITY'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 wastes.

AUTHORIZED SIGNATURE	CELL NO.	DATE	TIME
Joe Ontiveros		7/26/2022	1020

GENERATOR: COPIES 1 & 6 DISPOSAL SITE: COPIES 2 & 3 TRANSPORTERS: COPIES 4 & 5

?58h

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

TEX MEX

NON-HAZARDOUS WASTE MANIFEST NO 158850 | 1. PAGE__OF__ | 2. TRAILER NO. 29

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CONTANGO RESOURCES	717 Texas Ave, Suite 2900	7/26/2022
PHONE NO.	CITY / STATE / ZIP	6. TNRCC I.D. NO.
(713) 236-7400	Houston / TX / 77002	

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
a. Non-Regulated, Non Hazardous Waste	1	CM		y	
b.					
c.					
d. WT: 31860 32660					

12. COMMENTS OR SPECIAL INSTRUCTIONS:	13. WASTE PROFILE NO.
KARLSBAD CORRAL SWD #2 TC 10520	

TRANSPORTER

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME	PHONE NO	24-HOUR EMERGENCY NO.
JOE ONTIVEROS	575-887-4048	

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

PRINTED/TYPED NAME	SIGNATURE	DATE
CO MAN: JR. CURTIS		

TRANSPORTERS

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME: TEX MEX RENTALS	NAME:
TEXAS I.D. NO.	TEXAS I.D. NO.
IN CASE OF EMERGENCY CONTACT: RON TODD	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE: (575) 492-9888	EMERGENCY PHONE:
18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPORTER (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME Norma Montes	PRINTED/TYPED NAME
SIGNATURE DATE 7/26/2022	SIGNATURE DATE

DISPOSAL FACILITY

Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS	

21. **DISPOSAL FACILITY'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 wastes.

AUTHORIZED SIGNATURE	CELL NO.	DATE	TIME
J Ontiveros		7/26/2022	1025

GENERATOR: COPIES 1 & 6 DISPOSAL SITE: COPIES 2 & 3 TRANSPORTERS: COPIES 4 & 5

COPY 1

?58H

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

TEX MEX

NON-HAZARDOUS WASTE MANIFEST NO 158920 | 1. PAGE ___ OF ___ | 2. TRAILER NO. 37

GENERATOR

3. COMPANY NAME	4. ADDRESS			5. PICK-UP DATE
CONTANGO RESOURCES	717 Texas Ave, Suite 2900			7/27/2022
PHONE NO.	CITY	STATE	ZIP	6. TNRCC I.D. NO.
(713) 236-7400	Houston	TX	77002	

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
a. Non-Regulated, Non Hazardous Waste	1	CM		Y	
b.					
c.					
d. WT: 35140					

12. COMMENTS OR SPECIAL INSTRUCTIONS:	13. WASTE PROFILE NO.
KARLSBAD CORRAL SWD #2	

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME	PHONE NO	24-HOUR EMERGENCY NO.
JOE ONTIVEROS	575-887-4048	

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

PRINTED/TYPED NAME	SIGNATURE	DATE
CO MAN: JR. CURTIS		

TRANSPORTERS

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME: TEX MEX RENTALS	NAME:
TEXAS I.D. NO.	TEXAS I.D. NO.
IN CASE OF EMERGENCY CONTACT: RON TODD	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE: (575) 492-0888	EMERGENCY PHONE:
18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPORTER (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME: Debbie Acosta	PRINTED/TYPED NAME:
SIGNATURE: Debbie Acosta DATE: 7/27/2022	SIGNATURE: DATE:

DISPOSAL FACILITY

	ADDRESS:	PHONE:
Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	575-887-4048

PERMIT NO.	20. COMMENTS
WM-01-035 - New Mexico	

21. DISPOSAL FACILITY'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 wastes.

AUTHORIZED SIGNATURE	CELL NO.	DATE	TIME
		7/27/2022	1145

GENERATOR: COPIES 1 & 6 DISPOSAL SITE: COPIES 2 & 3 TRANSPORTERS: COPIES 4 & 5

COPY 1

?58h

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 TEX MEX

NON-HAZARDOUS WASTE MANIFEST NO 158921 | 1. PAGE __ OF __ | 2. TRAILER NO. 29

GENERATOR

3. COMPANY NAME	4. ADDRESS			5. PICK-UP DATE
CONTANGO RESOURCES	717 Texas Ave, Suite 2900			7/27/2022
PHONE NO.	CITY	STATE	ZIP	6. TNRCC I.D. NO.
(713) 236-7400	Houston	TX	77002	

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
a. Non-Regulated; Non Hazardous Waste	1	CM		y	
b.					
c.					
d. WT: 32680					

12. COMMENTS OR SPECIAL INSTRUCTIONS:	13. WASTE PROFILE NO.
KARLSBAD CORRAL SWD #2	

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME	PHONE NO	24-HOUR EMERGENCY NO.
JOE ONTIVEROS	575-887-4048	

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

PRINTED/TYPED NAME	SIGNATURE	DATE
CO MAN: JR: CURTIS		

TRANSPORTERS

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME: TEX MEX RENTALS	NAME:
TEXAS I.D. NO.	TEXAS I.D. NO.
IN CASE OF EMERGENCY CONTACT: RON TODD	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE: (575) 492-0888	EMERGENCY PHONE:
18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPORTER (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME Norma Montes	PRINTED/TYPED NAME
SIGNATURE DATE 7/27/2022	SIGNATURE DATE

DISPOSAL FACILITY

Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS	

21. DISPOSAL FACILITY'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 wastes.

AUTHORIZED SIGNATURE	CELL NO.	DATE	TIME
J. Montes J. Ontiveros		7/27/2022	11 50

GENERATOR: COPIES 1 & 6 DISPOSAL SITE: COPIES 2 & 3 TRANSPORTERS: COPIES 4 & 5

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 # 31534

Date: **8/10/2022**

AFE Number:

Charge to: Karlsbad Corral SWD 2

Req: JR Curtis

Date(s) of Service: 7/29/2022

Manifest #: 159050, 159051

Ship Via: Tex Mex Rentals

Qty	U/M	Description	Unit Price	Total
78.30	Tons	Non-regulated & non-hazardous waste (soil)	$20.00	$1,566.00
		Landfill located at Carlsbad, NM		

Subtotal	$1,566.00
Sales tax rate	5.375%
Sales tax	$84.17
Total	**$1,650.17**

TERMS: NET 30

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!

LEA LAND DISPOSAL SITE NEW MEXICO

?58h

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

Tex Mex

NON-HAZARDOUS WASTE MANIFEST NO 159050 | 1. PAGE __ OF __ | 2. TRAILER NO. 37

GENERATOR

3. COMPANY NAME	4. ADDRESS			5. PICK-UP DATE
CONTANGO RESOURCES	717 Texas Ave, Suite 2900			7/29/2022
PHONE NO.	CITY	STATE	ZIP	6. TNRCC I.D. NO.
(713) 236-7400	Houston	TX	77002	

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
a. Non-Regulated, Non Hazardous Waste	1	CM		y	
b.					
c.					
d. WT: 39180 38620					

12. COMMENTS OR SPECIAL INSTRUCTIONS:	13. WASTE PROFILE NO.
KARLSBAD CORRAL SWD #2 To 77800	

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME	PHONE NO	24-HOUR EMERGENCY NO.
JOE ONTIVEROS	575-887-4048	

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

PRINTED/TYPED NAME	SIGNATURE	DATE
CO MAN: JR. CURTIS		

TRANSPORTERS

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME: TEX MEX RENTALS	NAME:
TEXAS I.D. NO.	TEXAS I.D. NO.
IN CASE OF EMERGENCY CONTACT: RON TODD	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE: (575) 492-0888	EMERGENCY PHONE:
18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPORTER (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME: Bobbie Acosta	PRINTED/TYPED NAME:
SIGNATURE: Bobbie Acosta DATE: 7/29/2022	SIGNATURE: DATE:

DISPOSAL FACILITY

Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS	

21. DISPOSAL FACILITY'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 wastes.

AUTHORIZED SIGNATURE	CELL NO.	DATE	TIME
Joe Ontiveros		7/29/2022	10 10

GENERATOR: COPIES 1 & 6 DISPOSAL SITE: COPIES 2 & 3 TRANSPORTERS: COPIES 4 & 5

?58H

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 TEX MEX

NON-HAZARDOUS WASTE MANIFEST NO 159051 | 1. PAGE__OF__ | 2. TRAILER NO. 29

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CONTANGO RESOURCES	717 Texas Ave, Suite 2900	7/29/2022
PHONE NO.	CITY / STATE / ZIP	6. TNRCC I.D. NO.
(713) 236-7400	Houston / TX / 77002	

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	8. CONTAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
a. Non-Regulated, Non Hazardous Waste	1	CM		y	
b.					
c.					
d. WT: 44320 34480					

12. COMMENTS OR SPECIAL INSTRUCTIONS:	13. WASTE PROFILE NO.
KARLSBAD CORRAL SWD #2 10 7880	

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME	PHONE NO	24-HOUR EMERGENCY NO.
JOE ONTIVEROS	575-887-4048	

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

PRINTED/TYPED NAME	SIGNATURE	DATE
CO MAN: JR: CURTIS		

TRANSPORTERS

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME: TEX MEX RENTALS	NAME:
TEXAS I.D. NO.	TEXAS I.D. NO.
IN CASE OF EMERGENCY CONTACT: RON TODD	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE: (575) 492-0888	EMERGENCY PHONE:
18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPORTER (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME Norma Montes	PRINTED/TYPED NAME
SIGNATURE DATE 7/29/2022	SIGNATURE DATE

DISPOSAL FACILITY

FACILITY	ADDRESS:	PHONE:
Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	575-887-4048

PERMIT NO.	20. COMMENTS
WM-01-035 - New Mexico	

21. DISPOSAL FACILITY'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 wastes.

AUTHORIZED SIGNATURE	CELL NO.	DATE	TIME
Antonio Ontiveros		7/29/2022	10 10

GENERATOR: COPIES 1 & 6 DISPOSAL SITE: COPIES 2 & 3 TRANSPORTERS: COPIES 4 & 5

APPENDIX G

Groundwater

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: 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: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320739103584201

Minimum number of levels = 1
Save file of selected sites 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 (N9999OTHER) 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	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	Z		
1987-10-20		D	72019	140.33			1	Z		
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	S		
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

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	A	Approved for publication -- Processing and review completed.

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

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: USGS Water Data Support Team
Page Last Modified: 2023-01-13 11:12:23 EST
0.28 0.25 nadww01

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

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

CONDITIONS

Action 181066

CONDITIONS

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

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2214547419 KARLSBAD CORRAL SWD 2, thank you. This closure is approved. 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.	5/26/2023