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Closure Report

Big Sky ABY State #1
Chaves County, New Mexico
API ID # 30-005-21020
Incident # NOY1723064014 / 1RP-4792

Prepared For:

EOG Resources
104 S. 4th St.
Artesia, NM 88210

Prepared By:

Talon/LPE
408 W. Texas Avenue
Artesia, New Mexico 88210

August 10, 2023

**NMOCD**

506 W. Texas Ave
Artesia, NM 88210

Subject: **Closure Report**
Big Sky ABY State #001
Chaves County, New Mexico
API # 30-005-21020
Incident # NOY1723064014 / 1RP-4792

To Whom It May Concern,

EOG Resources contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The incident description, soil sampling results, remedial actions and closure request are presented herein.

Site Information

The Big Sky ABY State #001 is located approximately 45 miles northwest of Lovington, New Mexico. The legal location for this Chaves is Unit Letter M, Section 26, Township 8 South, and Range 33 East in Chaves County, New Mexico. More specifically the latitude and longitude for the Chaves are 33.58612 and -103.54252. A Site Location Map is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is comprised of Douro-Faskin with, 0 to 2 percent slopes. The referenced soil data is presented in [Appendix II](#). Per the New Mexico Bureau of Geology and Mineral Resources, the local geology consists of the Older alluvial deposits of upland plains and piedmont areas, and calcic soils and eolian cover sediments of High Plains region.

Groundwater and Site Characterization

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 0.44 miles from the site and is recorded at 157 feet below ground surface (bgs). Further research of the Bureau of Land Management Karst data indicates that this site is situated within a low potential Karst area. The FEMA data base locates the site in a minimal flood hazard zone.

Approximate Depth to Groundwater	157 feet bgs
---	---------------------

- ☐ Yes ☒ No Within 300 feet of any continuously flowing watercourse or any other significant watercourse
- ☐ Yes ☒ No Within 200 feet of any lakebed, sinkhole or a playa lake
- ☐ Yes ☒ No Within 300 feet from an occupied permanent residence, school, hospital, institution or church
- ☐ Yes ☒ No Within 500 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 Within 1000 feet of any freshwater well or spring
- ☐ Yes ☒ No Within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
- ☐ Yes ☒ No Within 300 feet of a wetland
- ☐ Yes ☒ No Within the area overlying a subsurface mine
- ☐ Yes ☒ No Within an unstable area
- ☐ Yes ☒ No Within a 100-year floodplain

New Mexico Oil Conservation Division's (NMOCD) criteria stated from the work order must adhere to the following conditions stated from the approved work plan. The following conditions are listed in the table below.

Closure Criteria for Soils Impacted by a Chaves			
Minimum depth below any point within the horizontal boundary of the Chaves to ground water less than 10,000 mg/l TDS	Constituent	Method	Limit
< 50'	Total Chlorides	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Incident Description

On August 6, 2017, a hole in a heater treater from vandalism caused the Chaves. Approximately 20 barrels (bbls) of produced water was Chavesd with 8 bbls recovered.

EOG Resources requested Talon to resume remediation of previous spill reported on August 18, 2017. The C-141 along with a work plan was submitted to the NMOCD and the approved work plan can be reviewed under incident number NOY1723064014 / 1RP-4792. The site location map is presented in [Appendix I](#). The approved work plan is attached in [Appendix VI](#).

Site Assessment

On December 7, 2022, upon client authorization, Talon mobilized personnel to the site to conduct an initial site assessment. The impacted area was photographed, soil samples were collected utilizing a hand auger, and the area mapped. All soil samples were properly packaged in laboratory provided glassware, preserved on ice in the custody of Talon personnel, and transported to Eurofins Analytical Laboratory for analysis of Total Chlorides (EPA Method 300.0), Total Petroleum Hydrocarbons (TPH via EPA Method 8015M), and Volatile Organics (BTEX, EPA Method 8021B). Sample locations are shown on the attached Figure 1 in [Appendix I](#), and the results of the sampling event are presented in Table 1.

Table 1
Initial Site Assessment Samples

Big Sky ABY State #1									
Sample ID	Sample Date	Depth (BGS)	Benzene mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Approved Closure Criteria, work plan			10 mg/kg	50 mg/kg	DRO + GRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
S-1	12/7/2023	0-6"	0.00416	ND	ND	ND	ND	ND	150
S-1	12/7/2023	2'	ND	0.00173	21.3	258	79.2	359	401
S-1	12/7/2023	3' R	ND	ND	26.6	122	40.7	189	324
S-2	12/7/2023	0-6"	ND	ND	16.1	27.2	ND	43.3	72.3
S-2	12/7/2023	2'	ND	ND	ND	17.4	ND	17.4	33.8
S-2	12/7/2023	3' R	ND	ND	21.2	ND	ND	21.2	60.0
S-3	12/7/2023	0-6"	ND	ND	ND	ND	ND	ND	39.8
S-3	12/7/2023	2'	ND	ND	16.5	ND	ND	16.5	345
S-3	12/7/2023	3' R	ND	ND	ND	ND	ND	ND	351
S-4	12/7/2023	0-6"	ND	ND	ND	17.7	ND	17.7	57.9
S-4	12/7/2023	2'	ND	ND	ND	ND	ND	ND	309
S-4	12/7/2023	3' R	ND	ND	18.9	15.3	ND	34.2	757
S-5	12/7/2023	0-6"	ND	ND	47.3	73.0	21.2	142	333
S-5	12/7/2023	1'	ND	ND	21.1	514	128	663	359
S-5	12/7/2023	2'	ND	ND	29.5	133	48.9	211	547
S-5	12/7/2023	3' R	ND	ND	20.5	154	50.2	225	648

NOTES:

BGS Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

MRO Motor oil range organics

C Confirmation Sample

SW Sidewall Sample

ND Analyte Not Detected

R Hand Auger Refusal

Highlighted cells indicate exceedance of NMOCD Table 1 Closure Criteria.

Remedial Actions

On December 29, 2022, based on the laboratory results from the initial site assessment and upon client authorization, Talon personnel and equipment mobilized to the site to continue delineation of the impacted area with backhoe. The impacted area was excavated to 5 feet bgs at the locations shown on Figure 2, site excavation map and the analytical results from those efforts presented in table 2. All soil samples were properly collected and preserved for transport to Eurofins Laboratories for analysis. The soil sample results from the laboratory are tabulated below. Sample locations are illustrated on Figure 2, [Appendix I](#).

Table 2
Remediation Samples

Big Sky ABY State #1									
Sample ID	Sample Date	Depth (BGS)	Benzene mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Approved Closure Criteria			10 mg/kg	50 mg/kg	DRO + GRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
S-6	12/29/2023	5'	ND	ND	ND	18.6	ND	18.6	430
S-7	12/29/2023	5'	ND	ND	26.8	117	31.1	175	123
	1/12/2023	6'	ND	ND	ND	ND	ND	46.9	172
S-8	12/29/2023	5'	ND	ND	30.6	88.4	22.8	142	479
	1/12/2023	6'	ND	ND	ND	35.8	ND	35.8	812
	1/23/2023	6'	ND	ND	ND	91.9	24.6	163	837
	2/2/2023	6'	ND	ND	ND	166	42.7	208.7	400
	2/8/2023	6.5	ND	ND	ND	63.5	30.6	94.1	384
SW-1	12/29/2023	3'	0.000634	0.00238	25.4	166	54.5	246	548
	1/12/2023	3'	ND	ND	ND	113	ND	113	657
	1/23/2023	3'	ND	ND	46.8	138	48.3	233	686
	2/2/2023	3'	ND	ND	ND	ND	ND	ND	528
SW-2	12/29/2023	3'	ND	ND	ND	17.7	15.6	33.3	423
SW-3	12/29/2023	3'	ND	ND	38.3	115	28.1	181	484
	1/12/2023	3'	ND	ND	ND	103	ND	103	236
	1/23/2023	3'	ND	ND	43.5	471	147	662	372
	2/2/2023	3'	ND	ND	ND	64.9	19.7	84.6	624
	2/8/2023	3'	Nd	ND	ND	63.5	30.6	94.1	384
SW-4	12/29/2023	3'	ND	ND	ND	62.5	ND	62.5	259

NOTES:

BGS	Below ground surface
mg/kg	Milligrams per kilogram
TPH	Total Petroleum Hydrocarbons
GRO	Gasoline range organics
DRO	Diesel range organics
MRO	Motor oil range organics
C	Confirmation Sample
SW	Sidewall Sample
ND	Analyte Not Detected

Highlighted cells indicate exceedance of NMOCD Table 1 Closure Criteria

Remediation Summary

On March 6, 2023, based on the laboratory results, Talon personnel return to location and collected confirmation samples. All soil samples were properly collected and preserved for transport to Cardinal Laboratories for analysis. The soil sample results from the laboratory are tabulated below in Table 3. Confirmation sample locations are illustrated on Figure 3, [Appendix I](#).

On May 26, 2023, based on the laboratory results, Talon personnel return to location and collected additional samples confirmation samples at C-3, C-4, SW-2, SW-3, and SW-4. All soil samples were properly collected and preserved for transport to Cardinal Laboratories for analysis. The soil sample results from the laboratory are tabulated below in Table 3. Confirmation sample locations are illustrated on Figure 3, [Appendix I](#).

On June 5, 2023, based on the laboratory results, Talon personnel return to location and collected additional samples confirmation samples at C-4, SW-2, and SW-3. All soil samples were properly collected and preserved for transport to Cardinal Laboratories for analysis. The soil sample results from the laboratory are tabulated below in Table 3. Confirmation sample locations are illustrated on Figure 3, [Appendix I](#).

On July 26, 2023, based on the laboratory results, Talon personnel return to location and collected additional samples confirmation samples at SW-1. Soil sample was properly collected and preserved for transport to Cardinal Laboratories for analysis. The soil sample results from the laboratory are tabulated below in Table 3. Confirmation sample locations are illustrated on Figure 3, [Appendix I](#).

Table 3
Confirmation Samples

Big Sky ABY State #1									
Sample ID	Sample Date	Depth (BGS)	Benzene mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Approved Closure Criteria			10 mg/kg	50 mg/kg	DRO + GRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
C-1	3/6/2023	6.5'	ND	ND	ND	52.6	19.1	71.7	352
C-2	3/6/2023	6.5'	ND	ND	ND	39.7	12.2	51.9	320
C-3	3/6/2023	6.5'	ND	ND	ND	164	46.2	210.2	368
	5/25/2023	8.5'	ND	ND	ND	ND	ND	ND	160
C-4	3/6/2023	6.5'	ND	ND	ND	289	62.3	351.3	496
	5/25/2023	8.5'	ND	ND	ND	144	59.8	203.8	320
	6/1/2023	8.5'	ND	ND	ND	12.5	ND	12.5	112
C-5	3/6/2023	6.5'	ND	ND	ND	ND	ND	ND	320
SW-1	3/6/2023	3'	ND	ND	ND	43.9	12.5	56.4	640
	7/26/2023	3'	ND	ND	ND	ND	ND	ND	48
SW-2	3/6/2023	3'	ND	ND	ND	97.3	50.7	148	272
	5/25/2023	3'	ND	ND	ND	69.6	33.6	103.2	304
	6/1/2023	3'	ND	ND	ND	25.0	ND	25.0	144
SW-3	3/6/2023	3'	ND	ND	ND	133	59.5	192.5	336
	5/25/2023	3'	ND	ND	ND	440	192	632	256
	6/1/2023	3'	ND	ND	ND	13.1	ND	13.1	112
SW-4	3/6/2023	3'	ND	ND	ND	118	78.3	196.3	416
	5/25/2023	3'	ND	ND	ND	ND	ND	ND	480

NOTES:

BGS Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

MRO Motor oil range organics

C Confirmation Sample

SW Sidewall Sample

ND Analyte Not Detected

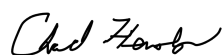
Highlighted cells indicate exceedance of NMOCD Table 1 Closure Criteria

Closure

On behalf of EOG Resources, we respectfully request that no further actions be required and that closure of this incident be granted.

Respectfully submitted,

Talon/LPE



Chad Hensley
Project Manager

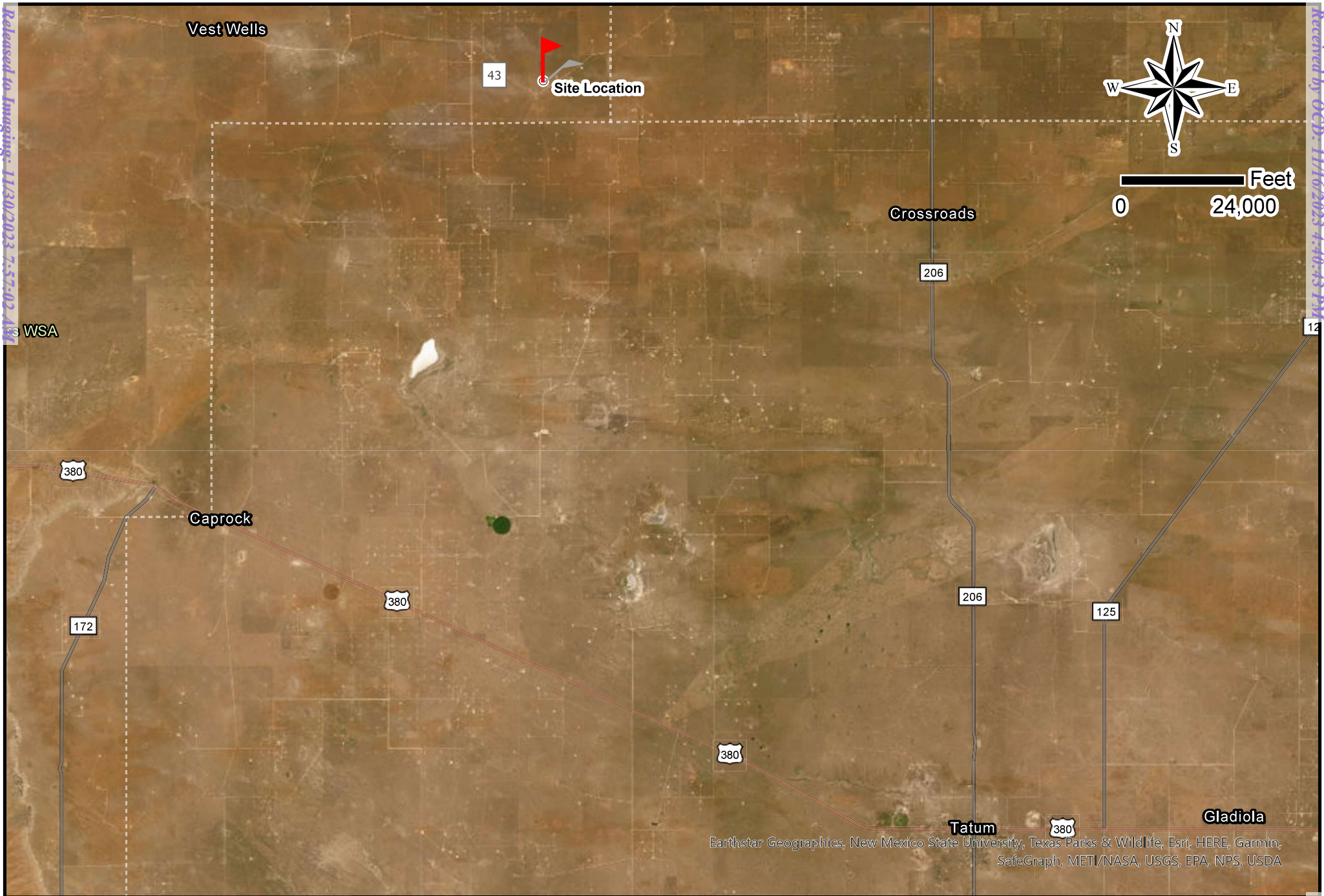
Attachments:

- Appendix I Site Maps
- Appendix II Groundwater Data, Soil Survey, FEMA Flood Map
- Appendix III C-141 Forms, NMOCD Correspondence
- Appendix IV Photographic Documentation
- Appendix V Laboratory Reports



Appendix I

Site Maps



Drafted: 3/10/2023
1 in = 24,000 ft
Drafted By: IJR

EOG Resources, Inc.
Big Sky ABY State #1
Elida, New Mexico
Location Map



Drafted: 3/31/2023
1 in = 25 ft
Drafted By: JAI

EOG Resources, Inc.
Big Sky ABY State #1 Elida,
New Mexico
Assessment Map Figure 1



Drafted: 3/10/2023
1 in = 25 ft
Drafted By: IJR

EOG Resources, Inc.
Big Sky ABY State #1
Elida, New Mexico
Site Map Figure 2



Drafted: 3/31/2023
1 in = 25 ft
Drafted By: JAI

EOG Resources, Inc. Big
Sky ABY State #1
Elida, New Mexico
Confirmation Map Figure 3



Appendix II

Groundwater Data

Soil Survey

FEMA Flood Map



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Site Information ▼

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Well Site

DESCRIPTION:

Latitude 33°35'23", Longitude 103°30'37" NAD27
Roosevelt County, New Mexico , Hydrologic Unit 12080001
Well depth: 151 feet
Land surface altitude: 4,315.00 feet above NGVD29.
Well completed in "Ogallala Formation" (121OGLL) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1980-02-07	1995-01-26	4

OPERATION:

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Available data for this site

Groundwater: Field measurements

GO

Roosevelt County, New Mexico

Hydrologic Unit Code 12080001

Latitude 33°35'23", Longitude 103°30'37" NAD27

Land-surface elevation 4,315.00 feet above NGVD29

The depth of the well is 151 feet below land surface.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

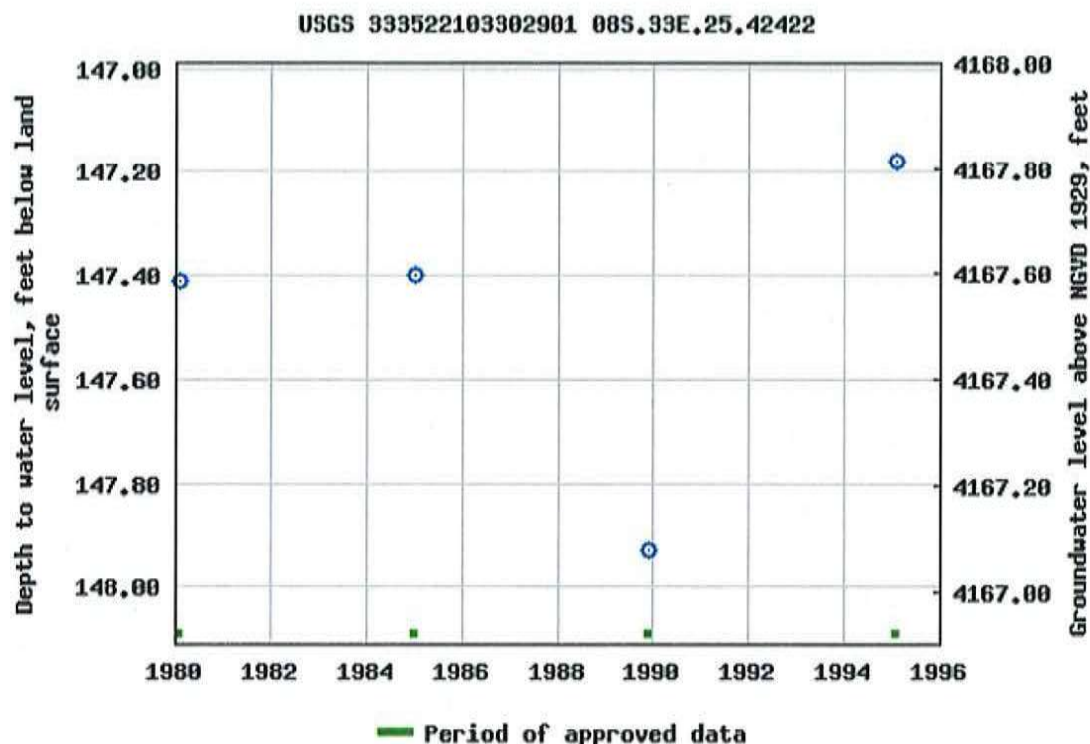
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USGS 333503103325801 08S.33E.34.212211

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SUMMARY OF ALL AVAILABLE DATA ▼

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Well Site

DESCRIPTION:

Latitude 33°35'03", Longitude 103°32'58" NAD27
Chaves County, New Mexico , Hydrologic Unit 12080001
Well depth: 180 feet
Land surface altitude: 4,355 feet above NGVD29.

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1995-02-21	1995-02-21	1

OPERATION:

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Geographic Area:

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Groundwater: Field measurements

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Chaves County, New Mexico

Hydrologic Unit Code 12080001

Latitude 33°35'03", Longitude 103°32'58" NAD27

Land-surface elevation 4,355 feet above NGVD29

The depth of the well is 180 feet below land surface.

Output formats

[Table of data](#)

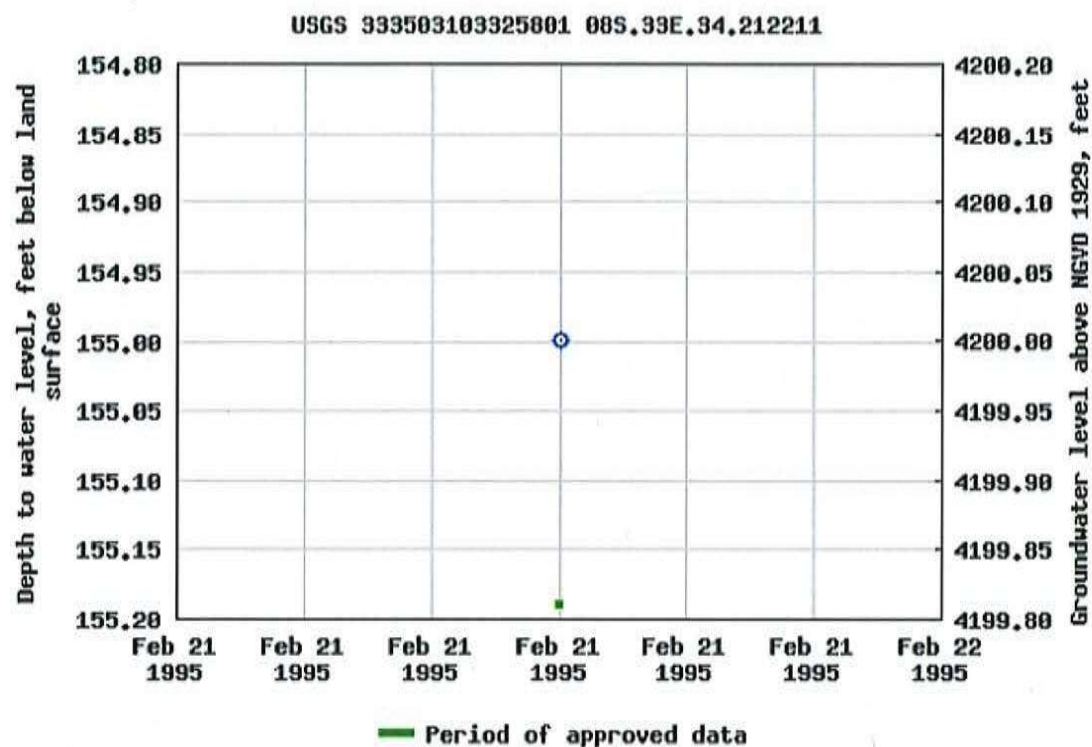
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New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(NAD83 UTM in meters)	
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CL 00314 POD1	1	2	2	34	08S	33E	634611	3716897 

Driller License:	1626	Driller Company:	TAYLOR, ROY ALLEN	
Driller Name:	TAYLOR, ROY A.			
Drill Start Date:	04/18/2016	Drill Finish Date:	04/20/2016	Plug Date:
Log File Date:	04/29/2016	PCW Rcv Date:		Source: Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield: 5 GPM
Casing Size:	5.00	Depth Well:	220 feet	Depth Water: 157 feet

Water Bearing Stratifications:	Top	Bottom	Description
	116	135	Sandstone/Gravel/Conglomerate
	135	185	Sandstone/Gravel/Conglomerate
	182	205	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	160	220

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

3/24/23 1:19 PM

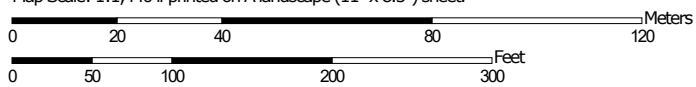
POINT OF DIVERSION SUMMARY

Soil Map—Chaves County, New Mexico, Northern Part



Soil Map may not be valid at this scale.

Map Scale: 1:1,440 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84



Natural Resources
Conservation Service


Web Soil Survey
National Cooperative Soil Survey

6/28/2023
Page 1 of 3

Soil Map—Chaves County, New Mexico, Northern Part


MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Chaves County, New Mexico, Northern Part

Survey Area Data: Version 18, Sep 8, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 5, 2021—Feb 8, 2021

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
DUA	Douro-Faskin, moist association, gently undulating	9.7	100.0%
Totals for Area of Interest		9.7	100.0%

Map Unit Description: Douro-Faskin, moist association, gently undulating---Chaves County,
New Mexico, Northern Part

Chaves County, New Mexico, Northern Part

DUA—Douro-Faskin, moist association, gently undulating

Map Unit Setting

National map unit symbol: dm02

Elevation: 2,750 to 4,800 feet

Mean annual precipitation: 13 to 20 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 240 days

Farmland classification: Not prime farmland

Map Unit Composition

Douro and similar soils: 50 percent

Faskin and similar soils: 40 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Douro

Setting

Landform: Plateaus

Landform position (three-dimensional): Rise

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous alluvial and eolian deposits

Typical profile

H1 - 0 to 8 inches: fine sandy loam

H2 - 8 to 25 inches: sandy clay loam

H3 - 25 to 33 inches: cemented material

H4 - 33 to 60 inches: gravelly loam

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: 20 to 40 inches to petrocalcic

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.60 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 80 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water supply, 0 to 60 inches: Low (about 3.6 inches)

Interpretive groups

Land capability classification (irrigated): 3e

Land capability classification (nonirrigated): 4e

Map Unit Description: Douro-Faskin, moist association, gently undulating---Chaves County,
New Mexico, Northern Part

Hydrologic Soil Group: C
Ecological site: R077CY035TX - Sandy 16-21" PZ
Hydric soil rating: No

Description of Faskin

Setting

Landform: Terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvial and eolian deposits

Typical profile

H1 - 0 to 12 inches: fine sandy loam
H2 - 12 to 30 inches: sandy clay loam
H3 - 30 to 60 inches: sandy clay loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 50 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Moderate (about 8.1 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: B
Ecological site: R077CY035TX - Sandy 16-21" PZ
Hydric soil rating: No

Minor Components

Portales

Percent of map unit: 5 percent
Ecological site: R077CY052NM - Loamy Sand
Hydric soil rating: No

Dune land

Percent of map unit: 5 percent

Map Unit Description: Douro-Faskin, moist association, gently undulating---Chaves County,
New Mexico, Northern Part

Hydric soil rating: No

Data Source Information

Soil Survey Area: Chaves County, New Mexico, Northern Part
Survey Area Data: Version 18, Sep 8, 2022



Appendix III

C-141 Forms

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

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company EOG Y Resources, Inc.	Contact Robert Asher
Address 104 S. 4 th Street Artesia, NM 88210	Telephone No. 575-748-1471
Facility Name Big Sky ABY State #1	Facility Type Well

Surface Owner State	Mineral Owner State	API No. 30-005-21020
------------------------	------------------------	-------------------------

LOCATION OF RELEASE

Unit Letter M	Section 26	Township 8S	Range 33E	Feet from the 660	North/South Line South	Feet from the 660	East/West Line West	County Chaves
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Latitude 33.58612 Longitude -103.54252

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 20 B/PW	Volume Recovered 8 B/PW
Source of Release Heater Treater	Date and Hour of Occurrence 08/06/2017; PM	Date and Hour of Discovery 08/06/2017; PM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? N/A	<div style="border: 1px solid black; padding: 5px; text-align: center;"> RECEIVED <i>By Olivia Yu at 5:42 pm, Aug 18, 2017</i> </div>
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacted	

If a Watercourse was Impacted, Describe Fully.* N/A



Describe Cause of Problem and Remedial Action Taken.*

Hole in heater treater from vandalism (gunshot), caused the release. Vacuum truck(s) and roustabout crews were called.

Describe Area Affected and Cleanup Action Taken.

An approximate area of 50'X35'. The well and valves were closed. Vacuum truck recovered remaining produced water. The impacted soils were excavated (1' depth) and hauled to an NMOCD approved facility. Site check on 8/15/2017 and initial vertical and horizontal delineation samples were collected (8/15/2017) to be analyzed for TPH & BTEX (chlorides for documentation). Depth to Ground Water: >100' (approximately 157', Section 34, T8S-R33E, per NMOSE), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Robert Asher	Approved by Environmental Specialist: 	
Title: Environmental Supervisor	Approval Date: 8/18/2017	Expiration Date:
E-mail Address: Robert_asher@eogresources.com	Conditions of Approval: see attached directive	Attached <input checked="" type="checkbox"/>
Date: August 16, 2017	Phone: 575-748-4217	

* Attach Additional Sheets If Necessary

1RP-4792

nOY1723064014

pOY1723064269

Incident ID	NOY1723064014
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Chase Settle Title: Rep Safety & Environmental Sr
Signature: Chase Settle Date: 11/16/2023
email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: Ashley Maxwell Date: 11/30/2023
Printed Name: Ashley Maxwell Title: Environmental Specialist

From: [Jeremy Haass](#)
To: [Chad Hensley](#)
Subject: FW: Big Sky ABY State 1 (nOY1723064014) Sampling Notification
Date: Thursday, March 2, 2023 7:03:42 AM
Attachments: [image001.png](#)
[image002.png](#)

This message originated from an **External Source**. Please use proper judgment and caution when opening attachments, clicking links, or responding to this email.

FYI

Jeremy Haass

Safety & Environmental Specialist

EOG Resources – Artesia Division

104 S. 4th Street

Artesia, NM 88210

Office: (575) 748-4311

Fax: (575) 748-4131

Cell: (575) 513-9235

jeremy_haass@eogresources.com



From: Tina Huerta <Tina_Huerta@eogresources.com>

Sent: Thursday, March 2, 2023 6:08 AM

To: ocd.enviro@emnrd.nm.gov

Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>

Subject: Big Sky ABY State 1 (nOY1723064014) Sampling Notification

Good morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Big Sky ABY State 1

M-26-8S-33E

Chaves County, NM

nOY1723064014

Sampling will begin at 8:00 a.m. on Monday, March 6, 2023.

Thank you,

Tina Huerta

Regulatory Specialist

Direct: 575.748.4168

Cell: 575.703.3121

Email: tina_huerta@eogresources.com



Artesia Division



Appendix IV

Photographic Documentation



Big Sky
12.28.2022 10:19 AM
33.58583, -103.54305

Photograph No.1 Description: 5' Excavation	Remediation on 12/28/22 excavation to 5'
---	--



Big Sky
12.28.2022 10:19 AM
33.58583, -103.54309

Photograph No.2

Description: 5' Excavation

Gridding on 200 sq/ft for sampling event.



EOG Big Sky ABY State 02
3-6-23 Composite Sampling
03.06.2023 09:01 AM
33.58572, -103.543
686-662 County Rd 43, Elida, NM 88116, USA

Photograph No.3**Description:**6.5' Excavation

Final depth of excavation prior to confirmation sampling.



Appendix V

Laboratory Reports



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

February 07, 2023

CHAD HENSLEY

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: BIG SKY ABY STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 02/06/23 12:26.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	02/06/2023	Sampling Date:	02/02/2023
Reported:	02/07/2023	Sampling Type:	Soil
Project Name:	BIG SKY ABY STATE #1	Sampling Condition:	Cool & Intact
Project Number:	700438.306.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

Sample ID: S - 8 (H230500-01)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2023	ND	2.01	101	2.00	3.90	
Toluene*	<0.050	0.050	02/06/2023	ND	2.06	103	2.00	5.18	
Ethylbenzene*	<0.050	0.050	02/06/2023	ND	2.01	100	2.00	5.92	
Total Xylenes*	<0.150	0.150	02/06/2023	ND	6.23	104	6.00	4.93	
Total BTX	<0.300	0.300	02/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	02/06/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/06/2023	ND	196	97.9	200	1.56	
DRO >C10-C28*	166	10.0	02/06/2023	ND	197	98.6	200	1.98	
EXT DRO >C28-C36	42.7	10.0	02/06/2023	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 02/06/2023
Reported: 02/07/2023
Project Name: BIG SKY ABY STATE #1
Project Number: 700438.306.01
Project Location: EOG - LEA COUNTY, NM

Sampling Date: 02/02/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW - 1 (H230500-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/06/2023	ND	2.01	101	2.00	3.90		
Toluene*	<0.050	0.050	02/06/2023	ND	2.06	103	2.00	5.18		
Ethylbenzene*	<0.050	0.050	02/06/2023	ND	2.01	100	2.00	5.92		
Total Xylenes*	<0.150	0.150	02/06/2023	ND	6.23	104	6.00	4.93		
Total BTEx	<0.300	0.300	02/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	02/06/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/06/2023	ND	196	97.9	200	1.56	
DRO >C10-C28*	<10.0	10.0	02/06/2023	ND	197	98.6	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	02/06/2023	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	02/06/2023	Sampling Date:	02/02/2023
Reported:	02/07/2023	Sampling Type:	Soil
Project Name:	BIG SKY ABY STATE #1	Sampling Condition:	Cool & Intact
Project Number:	700438.306.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

Sample ID: SW - 3 (H230500-03)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2023	ND	2.01	101	2.00	3.90	
Toluene*	<0.050	0.050	02/06/2023	ND	2.06	103	2.00	5.18	
Ethylbenzene*	<0.050	0.050	02/06/2023	ND	2.01	100	2.00	5.92	
Total Xylenes*	<0.150	0.150	02/06/2023	ND	6.23	104	6.00	4.93	
Total BTEx	<0.300	0.300	02/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	02/06/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/06/2023	ND	196	97.9	200	1.56	
DRO >C10-C28*	64.9	10.0	02/06/2023	ND	197	98.6	200	1.98	
EXT DRO >C28-C36	19.7	10.0	02/06/2023	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



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

February 19, 2023

CHAD HENSLEY

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: BIG SKY ABY STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 02/13/23 13:48.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	02/13/2023	Sampling Date:	02/08/2023
Reported:	02/19/2023	Sampling Type:	Soil
Project Name:	BIG SKY ABY STATE #1	Sampling Condition:	Cool & Intact
Project Number:	700438.306.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

Sample ID: S - 8 @ 6.5' (H230662-01)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2023	ND	1.98	99.1	2.00	4.38	
Toluene*	0.225	0.050	02/16/2023	ND	2.04	102	2.00	4.22	
Ethylbenzene*	0.082	0.050	02/16/2023	ND	2.02	101	2.00	4.73	
Total Xylenes*	1.91	0.150	02/16/2023	ND	6.30	105	6.00	4.75	
Total BTX	2.22	0.300	02/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	02/15/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	20.0	10.0	02/16/2023	ND	212	106	200	2.67	
DRO >C10-C28*	43.6	10.0	02/16/2023	ND	194	96.9	200	4.37	
EXT DRO >C28-C36	17.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 02/13/2023
Reported: 02/19/2023
Project Name: BIG SKY ABY STATE #1
Project Number: 700438.306.01
Project Location: EOG - LEA COUNTY, NM

Sampling Date: 02/08/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW - 3 @ 3' (H230662-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2023	ND	1.98	99.1	2.00	4.38		
Toluene*	<0.050	0.050	02/16/2023	ND	2.04	102	2.00	4.22		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.02	101	2.00	4.73		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.30	105	6.00	4.75		
Total BTEx	<0.300	0.300	02/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	02/15/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	212	106	200	2.67	
DRO >C10-C28*	63.5	10.0	02/16/2023	ND	194	96.9	200	4.37	
EXT DRO >C28-C36	30.6	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon LPE		BILL TO		ANALYSIS REQUEST																							
Project Manager: Chad Hensley		P.O. #:																									
Address: 408 W. Texas Ave		Company: EOG																									
City: Artesia		Attn: Jeremy Haass																									
Phone #: 575.746.8768		Address:																									
State: NM Zip: 88210		City:																									
Project #: 700438.306.01		Project Owner: EOG																									
Project Name: Big Sky ABY State #1		State: Zip:																									
Project Location: Lea County, NM		Phone #:																									
Sampler Name: Chad Hensley		Fax #:																									
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV	SAMPLING	CL	BTEX	TPH															
14306063	S-8 @ 6.5'	G 1	1	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	CL	BTEX	TPH										
2	SW-3 @ 3'	G 1	1										2/8/23	12:01													
													2/8/23	12:10													
<p>PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																											
Relinquished By: <i>Chad Hensley</i>		Date: 2-13-23		Received By: <i>Spokane</i>																							
Relinquished By:		Time: 1:48		Received By:																							
Date:		Time:		Received By:																							
Delivered By: (Circle One) <i>29/C.O.U.</i>		Sample Condition		CHECKED BY: <i>(initials)</i>																							
Sampler - UPS - Bus - Other: <i>2.3.3. #113</i>		Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/>																									
		Yes <input type="checkbox"/> No <input type="checkbox"/>																									
		Yes <input type="checkbox"/> No <input type="checkbox"/>																									
<p>† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326</p>																											
Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:																									
Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																									
REMARKS:																											



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

March 10, 2023

CHAD HENSLEY

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: BIG SKY ABY STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 03/08/23 11:47.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	03/08/2023	Sampling Date:	03/06/2023
Reported:	03/10/2023	Sampling Type:	Soil
Project Name:	BIG SKY ABY STATE #1	Sampling Condition:	Cool & Intact
Project Number:	700438.306.01	Sample Received By:	Brandi Bautista
Project Location:	EOG - LEA COUNTY, NM		

Sample ID: C - 1 @ 6.5' (H231050-01)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2023	ND	1.95	97.7	2.00	1.62	
Toluene*	<0.050	0.050	03/09/2023	ND	1.99	99.5	2.00	0.904	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.00	100	2.00	0.784	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	6.08	101	6.00	1.81	
Total BTX	<0.300	0.300	03/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	03/09/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	191	95.3	200	4.30	
DRO >C10-C28*	52.6	10.0	03/09/2023	ND	188	93.9	200	5.23	
EXT DRO >C28-C36	19.1	10.0	03/09/2023	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/08/2023
Reported: 03/10/2023
Project Name: BIG SKY ABY STATE #1
Project Number: 700438.306.01
Project Location: EOG - LEA COUNTY, NM

Sampling Date: 03/06/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Brandi Bautista

Sample ID: C - 2 @ 6.5' (H231050-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/09/2023	ND	1.98	98.9	2.00	2.27		
Toluene*	<0.050	0.050	03/09/2023	ND	2.10	105	2.00	0.727		
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.32	116	2.00	1.66		
Total Xylenes*	<0.150	0.150	03/09/2023	ND	7.37	123	6.00	2.79		
Total BTEx	<0.300	0.300	03/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	03/09/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	191	95.3	200	4.30	
DRO >C10-C28*	39.7	10.0	03/09/2023	ND	188	93.9	200	5.23	
EXT DRO >C28-C36	12.2	10.0	03/09/2023	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/08/2023
Reported: 03/10/2023
Project Name: BIG SKY ABY STATE #1
Project Number: 700438.306.01
Project Location: EOG - LEA COUNTY, NM

Sampling Date: 03/06/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Brandi Bautista

Sample ID: C - 3 @ 6.5' (H231050-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/09/2023	ND	1.98	98.9	2.00	2.27		
Toluene*	<0.050	0.050	03/09/2023	ND	2.10	105	2.00	0.727		
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.32	116	2.00	1.66		
Total Xylenes*	<0.150	0.150	03/09/2023	ND	7.37	123	6.00	2.79		
Total BTEx	<0.300	0.300	03/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	03/09/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	191	95.3	200	4.30	
DRO >C10-C28*	164	10.0	03/09/2023	ND	188	93.9	200	5.23	
EXT DRO >C28-C36	46.2	10.0	03/09/2023	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/08/2023
Reported: 03/10/2023
Project Name: BIG SKY ABY STATE #1
Project Number: 700438.306.01
Project Location: EOG - LEA COUNTY, NM

Sampling Date: 03/06/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Brandi Bautista

Sample ID: C - 4 @ 6.5' (H231050-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2023	ND	1.98	98.9	2.00	2.27	
Toluene*	<0.050	0.050	03/09/2023	ND	2.10	105	2.00	0.727	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.32	116	2.00	1.66	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	7.37	123	6.00	2.79	
Total BTEx	<0.300	0.300	03/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	03/09/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	191	95.3	200	4.30	
DRO >C10-C28*	289	10.0	03/09/2023	ND	188	93.9	200	5.23	
EXT DRO >C28-C36	62.3	10.0	03/09/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	03/08/2023	Sampling Date:	03/06/2023
Reported:	03/10/2023	Sampling Type:	Soil
Project Name:	BIG SKY ABY STATE #1	Sampling Condition:	Cool & Intact
Project Number:	700438.306.01	Sample Received By:	Brandi Bautista
Project Location:	EOG - LEA COUNTY, NM		

Sample ID: C - 5 @ 6.5' (H231050-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2023	ND	1.98	98.9	2.00	2.27	
Toluene*	<0.050	0.050	03/09/2023	ND	2.10	105	2.00	0.727	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.32	116	2.00	1.66	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	7.37	123	6.00	2.79	
Total BTEX	<0.300	0.300	03/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	03/09/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	191	95.3	200	4.30	
DRO >C10-C28*	<10.0	10.0	03/09/2023	ND	188	93.9	200	5.23	
EXT DRO >C28-C36	<10.0	10.0	03/09/2023	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/08/2023
Reported: 03/10/2023
Project Name: BIG SKY ABY STATE #1
Project Number: 700438.306.01
Project Location: EOG - LEA COUNTY, NM

Sampling Date: 03/06/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Brandi Bautista

Sample ID: SW - 1 @ 3' (H231050-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/09/2023	ND	1.98	98.9	2.00	2.27		
Toluene*	<0.050	0.050	03/09/2023	ND	2.10	105	2.00	0.727		
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.32	116	2.00	1.66		
Total Xylenes*	<0.150	0.150	03/09/2023	ND	7.37	123	6.00	2.79		
Total BTEx	<0.300	0.300	03/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	03/09/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	191	95.3	200	4.30	
DRO >C10-C28*	43.9	10.0	03/09/2023	ND	188	93.9	200	5.23	
EXT DRO >C28-C36	12.5	10.0	03/09/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/08/2023
Reported: 03/10/2023
Project Name: BIG SKY ABY STATE #1
Project Number: 700438.306.01
Project Location: EOG - LEA COUNTY, NM

Sampling Date: 03/06/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Brandi Bautista

Sample ID: SW - 2 @ 3' (H231050-07)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2023	ND	1.98	98.9	2.00	2.27	
Toluene*	<0.050	0.050	03/09/2023	ND	2.10	105	2.00	0.727	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.32	116	2.00	1.66	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	7.37	123	6.00	2.79	
Total BTEx	<0.300	0.300	03/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	03/09/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	191	95.3	200	4.30	
DRO >C10-C28*	97.3	10.0	03/09/2023	ND	188	93.9	200	5.23	
EXT DRO >C28-C36	50.7	10.0	03/09/2023	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	03/08/2023	Sampling Date:	03/06/2023
Reported:	03/10/2023	Sampling Type:	Soil
Project Name:	BIG SKY ABY STATE #1	Sampling Condition:	Cool & Intact
Project Number:	700438.306.01	Sample Received By:	Brandi Bautista
Project Location:	EOG - LEA COUNTY, NM		

Sample ID: SW - 3 @ 3' (H231050-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/09/2023	ND	1.98	98.9	2.00	2.27		
Toluene*	<0.050	0.050	03/09/2023	ND	2.10	105	2.00	0.727		
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.32	116	2.00	1.66		
Total Xylenes*	<0.150	0.150	03/09/2023	ND	7.37	123	6.00	2.79		
Total BTEX	<0.300	0.300	03/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/09/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	191	95.3	200	4.30	
DRO >C10-C28*	133	10.0	03/09/2023	ND	188	93.9	200	5.23	
EXT DRO >C28-C36	59.5	10.0	03/09/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	03/08/2023	Sampling Date:	03/06/2023
Reported:	03/10/2023	Sampling Type:	Soil
Project Name:	BIG SKY ABY STATE #1	Sampling Condition:	Cool & Intact
Project Number:	700438.306.01	Sample Received By:	Brandi Bautista
Project Location:	EOG - LEA COUNTY, NM		

Sample ID: SW - 4 @ 3' (H231050-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/09/2023	ND	1.98	98.9	2.00	2.27		
Toluene*	<0.050	0.050	03/09/2023	ND	2.10	105	2.00	0.727		
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.32	116	2.00	1.66		
Total Xylenes*	<0.150	0.150	03/09/2023	ND	7.37	123	6.00	2.79		
Total BTEx	<0.300	0.300	03/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	03/09/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	184	92.2	200	6.75	
DRO >C10-C28*	118	10.0	03/09/2023	ND	188	93.8	200	7.73	
EXT DRO >C28-C36	78.3	10.0	03/09/2023	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon LPE

Project Manager: Chad Hensley

Address: 408 W. Texas Ave

City: Artesia

State: NM zip: 88210

Phone #: 575.746.8768

Fax #:

Project #: 700438.306.01

Project Owner:

Project Name: Big Sky ABY State #1

Project Location: Lea County, NM

Sampler Name: Chad Hensley

FOR LAB USE ONLY

BILL TO

P.O. #:

Company: EOG

Attn: Jeremy Haass

Address:

City:

State: zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	SAMPLING									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			ICE / COOL	OTHER :	CL	BTEX	TPH					
1031050	C-1@6.5'	C									3/6/23	8:15										
2	C-2 "	C										8:24										
3	C-3 "	C										8:29										
4	C-4 "	C										8:33										
5	C-5 "	C										8:37										
6	SW-1@3'	C										8:42										
7	SW-2 "	C										8:45										
8	SW-3 "	C										8:49										
9	SW-4 "	C										8:52										

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Relinquished By:

Chad Hensley

Date: 3-8-23

Time: 11:47

Received By:

Brandi Cantista

Date:

Time:

Received By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

3.8.100.0

3.2i #113

Sample Condition

Cool Intact

Yes No

CHECKED BY:

(Initials)

113

Phone Result: ☐ Yes ☐ No Add'l Phone #:

Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



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

May 30, 2023

CHAD HENSLEY

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: BIG SKY

Enclosed are the results of analyses for samples received by the laboratory on 05/26/23 9:21.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 05/26/2023
Reported: 05/30/2023
Project Name: BIG SKY
Project Number: NONE GIVEN
Project Location: EOG - LEA COUNTY

Sampling Date: 05/25/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 4 (H232687-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	2.00	100	2.00	7.08	QM-07
Toluene*	<0.050	0.050	05/26/2023	ND	1.97	98.3	2.00	7.61	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.90	95.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.83	97.2	6.00	7.90	
Total BTEX	<0.300	0.300	05/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	05/26/2023	ND	432	108	400	11.8	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	213	106	200	0.634	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	226	113	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 05/26/2023
Reported: 05/30/2023
Project Name: BIG SKY
Project Number: NONE GIVEN
Project Location: EOG - LEA COUNTY

Sampling Date: 05/25/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 2 (H232687-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/26/2023	ND	2.00	100	2.00	7.08		
Toluene*	<0.050	0.050	05/26/2023	ND	1.97	98.3	2.00	7.61		
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.90	95.2	2.00	8.01		
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.83	97.2	6.00	7.90		
Total BTEx	<0.300	0.300	05/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	05/26/2023	ND	432	108	400	11.8		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	213	106	200	0.634	
DRO >C10-C28*	69.6	10.0	05/26/2023	ND	226	113	200	1.83	
EXT DRO >C28-C36	33.6	10.0	05/26/2023	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 142 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 05/26/2023
Reported: 05/30/2023
Project Name: BIG SKY
Project Number: NONE GIVEN
Project Location: EOG - LEA COUNTY

Sampling Date: 05/25/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: C - 4 @ 8.5' (H232687-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/26/2023	ND	2.00	100	2.00	7.08		
Toluene*	<0.050	0.050	05/26/2023	ND	1.97	98.3	2.00	7.61		
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.90	95.2	2.00	8.01		
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.83	97.2	6.00	7.90		
Total BTEx	<0.300	0.300	05/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	05/26/2023	ND	432	108	400	11.8		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	213	106	200	0.634	
DRO >C10-C28*	144	10.0	05/26/2023	ND	226	113	200	1.83	
EXT DRO >C28-C36	59.8	10.0	05/26/2023	ND					

Surrogate: 1-Chlorooctane 133 % 48.2-134

Surrogate: 1-Chlorooctadecane 165 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 05/26/2023
Reported: 05/30/2023
Project Name: BIG SKY
Project Number: NONE GIVEN
Project Location: EOG - LEA COUNTY

Sampling Date: 05/25/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: C - 3 @ 8.5' (H232687-04)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	2.00	100	2.00	7.08	
Toluene*	<0.050	0.050	05/26/2023	ND	1.97	98.3	2.00	7.61	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.90	95.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.83	97.2	6.00	7.90	
Total BTX	<0.300	0.300	05/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/26/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	213	106	200	0.634	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	226	113	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 05/26/2023
Reported: 05/30/2023
Project Name: BIG SKY
Project Number: NONE GIVEN
Project Location: EOG - LEA COUNTY

Sampling Date: 05/25/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 3 (H232687-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/26/2023	ND	2.00	100	2.00	7.08		
Toluene*	<0.050	0.050	05/26/2023	ND	1.97	98.3	2.00	7.61		
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.90	95.2	2.00	8.01		
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.83	97.2	6.00	7.90		
Total BTEx	<0.300	0.300	05/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/26/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	213	106	200	0.634	
DRO >C10-C28*	440	10.0	05/26/2023	ND	226	113	200	1.83	
EXT DRO >C28-C36	192	10.0	05/26/2023	ND					

Surrogate: 1-Chlorooctane 144 % 48.2-134

Surrogate: 1-Chlorooctadecane 176 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 8 of 8



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

June 09, 2023

CHAD HENSLEY

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: BIG SKY ABY STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 06/05/23 11:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	06/05/2023	Sampling Date:	06/01/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	BIG SKY ABY STATE #1	Sampling Condition:	Cool & Intact
Project Number:	700438.306.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

Sample ID: C - 4 8.5' (H232834-01)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2023	ND	2.04	102	2.00	2.98	
Toluene*	<0.050	0.050	06/06/2023	ND	2.01	100	2.00	3.43	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	1.96	97.8	2.00	3.27	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	5.91	98.6	6.00	3.78	
Total BTX	<0.300	0.300	06/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/06/2023	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2023	ND	191	95.7	200	0.162	
DRO >C10-C28*	12.5	10.0	06/06/2023	ND	171	85.4	200	0.176	
EXT DRO >C28-C36	<10.0	10.0	06/06/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	06/05/2023	Sampling Date:	06/01/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	BIG SKY ABY STATE #1	Sampling Condition:	Cool & Intact
Project Number:	700438.306.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

Sample ID: SW - 2 (H232834-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2023	ND	2.04	102	2.00	2.98		
Toluene*	<0.050	0.050	06/06/2023	ND	2.01	100	2.00	3.43		
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	1.96	97.8	2.00	3.27		
Total Xylenes*	<0.150	0.150	06/06/2023	ND	5.91	98.6	6.00	3.78		
Total BTEX	<0.300	0.300	06/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/06/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2023	ND	191	95.7	200	0.162	
DRO >C10-C28*	25.0	10.0	06/06/2023	ND	171	85.4	200	0.176	
EXT DRO >C28-C36	<10.0	10.0	06/06/2023	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	06/05/2023	Sampling Date:	06/01/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	BIG SKY ABY STATE #1	Sampling Condition:	Cool & Intact
Project Number:	700438.306.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

Sample ID: SW - 3 (H232834-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2023	ND	2.04	102	2.00	2.98		
Toluene*	<0.050	0.050	06/06/2023	ND	2.01	100	2.00	3.43		
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	1.96	97.8	2.00	3.27		
Total Xylenes*	<0.150	0.150	06/06/2023	ND	5.91	98.6	6.00	3.78		
Total BTEX	<0.300	0.300	06/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	06/06/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2023	ND	191	95.7	200	0.162	
DRO >C10-C28*	13.1	10.0	06/06/2023	ND	171	85.4	200	0.176	
EXT DRO >C28-C36	<10.0	10.0	06/06/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon LPE

Project Manager: Chad Hensley

Address: 408 W. Texas Ave

City: Artesia

Phone #: 575.746.8768

Project #: 700438.306.01

Project Name: ~~Matador~~ Monton Pipeline

Project Location: Lea County

Sampler Name: N. Rose

BILL TO

P.O. #:

Company: *EOG*

Attn: *J. Haass*

Address:

City:

State: *#1* Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H232834

1 C-4 8.5'

8 SW-2 8.5'

3 SW-3 8.5' *

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

CL

BTEX

TPH

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Date: *6-5-23*

Time: *11:40*

Date:

Time:

Received By:

Received By:

Phone Result:

Fax Result:

REMARKS:

** Customer requested changes.*

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

0.3i/-0.3i

Sample Condition
Cool ☒ Intact ☒
Yes ☒ No ☐

CHECKED BY: *Sgt*

Add'l Phone #:

Add'l Fax #:

@1455 6/5/23



Environment Testing

- 1
- 2
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- 6
- 7
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ANALYTICAL REPORT

PREPARED FOR

Attn: Chad Hensley
Talon/LPE
408 W. Texas St.
Artesia, New Mexico 88210

Generated 12/14/2022 10:48:14 AM

JOB DESCRIPTION

Big Sky ABY State 1
SDG NUMBER Chaves County NM

JOB NUMBER

890-3613-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad**Job Notes**

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
12/14/2022 10:48:14 AM

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

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Laboratory Job ID: 890-3613-1
SDG: Chaves County NM

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Definitions/Glossary

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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.
α	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: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

Job ID: 890-3613-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-3613-1****Receipt**

The samples were received on 12/8/2022 4:58 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 5.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (890-3613-1), S-1 (890-3613-2), S-1 (890-3613-3), S-2 (890-3613-4), S-2 (890-3613-5), S-2 (890-3613-6), S-3 (890-3613-7), S-3 (890-3613-8), S-3 (890-3613-9), S-4 (890-3613-10), S-4 (890-3613-11), S-4 (890-3613-12), S-5 (890-3613-13), S-5 (890-3613-14), S-5 (890-3613-15) and S-5 (890-3613-16).

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. <EXPLANATION_REQUIRED>

890-3613

#13

#14

#15

#16

Time on jars does not match times on COC.

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 880-41575 and analytical batch 880-41559 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-41575/2-A) and (LCSD 880-41575/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-2 (890-3613-5) and S-2 (890-3613-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: S-1 (890-3613-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 880-41575 and analytical batch 880-41559 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 8015MOD_NM: The method blank for preparation batch 880-41575 and analytical batch 880-41559 contained Diesel Range Organics (Over C10-C28) and Oil Range Organics (Over C28-C36) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

Client Sample ID: S-1

Lab Sample ID: 890-3613-1

Date Collected: 12/07/22 13:53

Matrix: Solid

Date Received: 12/08/22 16:58

Sample Depth: 0-0.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000416	J	0.00201	0.000387	mg/Kg		12/12/22 15:50	12/13/22 12:07	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		12/12/22 15:50	12/13/22 12:07	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		12/12/22 15:50	12/13/22 12:07	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		12/12/22 15:50	12/13/22 12:07	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		12/12/22 15:50	12/13/22 12:07	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		12/12/22 15:50	12/13/22 12:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	12/12/22 15:50	12/13/22 12:07	1
1,4-Difluorobenzene (Surr)	100		70 - 130	12/12/22 15:50	12/13/22 12:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00402	0.00102	mg/Kg			12/13/22 15:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			12/13/22 10:27	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	<15.0	U F2	50.0	15.0	mg/Kg		12/12/22 09:30	12/12/22 20:47	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		12/12/22 09:30	12/12/22 20:47	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/12/22 09:30	12/12/22 20:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	12/12/22 09:30	12/12/22 20:47	1
o-Terphenyl	126		70 - 130	12/12/22 09:30	12/12/22 20:47	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		5.05	0.399	mg/Kg			12/13/22 15:25	1

Client Sample ID: S-1

Lab Sample ID: 890-3613-2

Date Collected: 12/07/22 13:59

Matrix: Solid

Date Received: 12/08/22 16:58

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		12/12/22 15:50	12/13/22 12:28	1
Toluene	0.00106	J	0.00198	0.000451	mg/Kg		12/12/22 15:50	12/13/22 12:28	1
Ethylbenzene	0.000665	J	0.00198	0.000559	mg/Kg		12/12/22 15:50	12/13/22 12:28	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		12/12/22 15:50	12/13/22 12:28	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		12/12/22 15:50	12/13/22 12:28	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		12/12/22 15:50	12/13/22 12:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	12/12/22 15:50	12/13/22 12:28	1

Eurofins Carlsbad

Client Sample Results

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

Client Sample ID: S-1

Lab Sample ID: 890-3613-2

Date Collected: 12/07/22 13:59

Matrix: Solid

Date Received: 12/08/22 16:58

Sample Depth: 2'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102		70 - 130	12/12/22 15:50	12/13/22 12:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00173	J	0.00396	0.00100	mg/Kg			12/13/22 15:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	359		49.9	15.0	mg/Kg			12/13/22 10:27	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	21.3	J	49.9	15.0	mg/Kg		12/12/22 09:30	12/13/22 02:17	1
Diesel Range Organics (Over C10-C28)	258	B	49.9	15.0	mg/Kg		12/12/22 09:30	12/13/22 02:17	1
Oil Range Organics (Over C28-C36)	79.2	B	49.9	15.0	mg/Kg		12/12/22 09:30	12/13/22 02:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				12/12/22 09:30	12/13/22 02:17	1
o-Terphenyl	115		70 - 130				12/12/22 09:30	12/13/22 02:17	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	401		4.97	0.393	mg/Kg			12/13/22 15:47	1

Client Sample ID: S-1

Lab Sample ID: 890-3613-3

Date Collected: 12/07/22 14:02

Matrix: Solid

Date Received: 12/08/22 16:58

Sample Depth: 3'R

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/12/22 15:50	12/13/22 12:48	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		12/12/22 15:50	12/13/22 12:48	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		12/12/22 15:50	12/13/22 12:48	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		12/12/22 15:50	12/13/22 12:48	1
o-Xylene	0.000692	J	0.00199	0.000342	mg/Kg		12/12/22 15:50	12/13/22 12:48	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		12/12/22 15:50	12/13/22 12:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				12/12/22 15:50	12/13/22 12:48	1
1,4-Difluorobenzene (Surr)	100		70 - 130				12/12/22 15:50	12/13/22 12:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			12/13/22 15:44	1

Eurofins Carlsbad

Client Sample Results

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

Client Sample ID: S-1

Lab Sample ID: 890-3613-3

Date Collected: 12/07/22 14:02

Matrix: Solid

Date Received: 12/08/22 16:58

Sample Depth: 3'R

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	189		49.9	15.0	mg/Kg			12/13/22 10:27	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	26.6	J	49.9	15.0	mg/Kg		12/12/22 09:30	12/13/22 03:23	1
Diesel Range Organics (Over C10-C28)	122	B	49.9	15.0	mg/Kg		12/12/22 09:30	12/13/22 03:23	1
Oil Range Organics (Over C28-C36)	40.7	J B	49.9	15.0	mg/Kg		12/12/22 09:30	12/13/22 03:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				12/12/22 09:30	12/13/22 03:23	1
o-Terphenyl	131	S1+	70 - 130				12/12/22 09:30	12/13/22 03:23	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	324		5.00	0.395	mg/Kg			12/13/22 15:54	1

Client Sample ID: S-2

Lab Sample ID: 890-3613-4

Date Collected: 12/07/22 14:07

Matrix: Solid

Date Received: 12/08/22 16:58

Sample Depth: 0-0.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		12/12/22 15:50	12/13/22 13:09	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		12/12/22 15:50	12/13/22 13:09	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		12/12/22 15:50	12/13/22 13:09	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		12/12/22 15:50	12/13/22 13:09	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		12/12/22 15:50	12/13/22 13:09	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		12/12/22 15:50	12/13/22 13:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				12/12/22 15:50	12/13/22 13:09	1
1,4-Difluorobenzene (Surr)	105		70 - 130				12/12/22 15:50	12/13/22 13:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			12/13/22 15:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	43.3	J	50.0	15.0	mg/Kg			12/13/22 10:27	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	16.1	J	50.0	15.0	mg/Kg		12/12/22 09:30	12/12/22 21:53	1
Diesel Range Organics (Over C10-C28)	27.2	J B	50.0	15.0	mg/Kg		12/12/22 09:30	12/12/22 21:53	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/12/22 09:30	12/12/22 21:53	1

Eurofins Carlsbad

Client Sample Results

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

Client Sample ID: S-2

Lab Sample ID: 890-3613-4

Date Collected: 12/07/22 14:07

Matrix: Solid

Date Received: 12/08/22 16:58

Sample Depth: 0-0.5'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	12/12/22 09:30	12/12/22 21:53	1
o-Terphenyl	111		70 - 130	12/12/22 09:30	12/12/22 21:53	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.3		4.98	0.393	mg/Kg			12/13/22 16:01	1

Client Sample ID: S-2

Lab Sample ID: 890-3613-5

Date Collected: 12/07/22 14:09

Matrix: Solid

Date Received: 12/08/22 16:58

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/12/22 15:50	12/13/22 13:30	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		12/12/22 15:50	12/13/22 13:30	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		12/12/22 15:50	12/13/22 13:30	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		12/12/22 15:50	12/13/22 13:30	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		12/12/22 15:50	12/13/22 13:30	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		12/12/22 15:50	12/13/22 13:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	12/12/22 15:50	12/13/22 13:30	1
1,4-Difluorobenzene (Surr)	100		70 - 130	12/12/22 15:50	12/13/22 13:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			12/13/22 15:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	17.4	J	50.0	15.0	mg/Kg			12/13/22 10:27	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	<15.0	U	50.0	15.0	mg/Kg		12/12/22 09:30	12/12/22 22:15	1
Diesel Range Organics (Over C10-C28)	17.4	J B	50.0	15.0	mg/Kg		12/12/22 09:30	12/12/22 22:15	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/12/22 09:30	12/12/22 22:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130	12/12/22 09:30	12/12/22 22:15	1
o-Terphenyl	144	S1+	70 - 130	12/12/22 09:30	12/12/22 22:15	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.8		4.96	0.392	mg/Kg			12/13/22 16:08	1

Eurofins Carlsbad

Client Sample Results

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

Client Sample ID: S-2

Lab Sample ID: 890-3613-6

Date Collected: 12/07/22 14:11

Matrix: Solid

Date Received: 12/08/22 16:58

Sample Depth: 3'R

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		12/12/22 15:50	12/13/22 13:51	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		12/12/22 15:50	12/13/22 13:51	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		12/12/22 15:50	12/13/22 13:51	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		12/12/22 15:50	12/13/22 13:51	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		12/12/22 15:50	12/13/22 13:51	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		12/12/22 15:50	12/13/22 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	12/12/22 15:50	12/13/22 13:51	1
1,4-Difluorobenzene (Surr)	99		70 - 130	12/12/22 15:50	12/13/22 13:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00402	0.00102	mg/Kg			12/13/22 15:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	21.2	J	50.0	15.0	mg/Kg			12/13/22 10:27	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	21.2	J	50.0	15.0	mg/Kg		12/12/22 09:30	12/12/22 22:37	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		12/12/22 09:30	12/12/22 22:37	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/12/22 09:30	12/12/22 22:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130	12/12/22 09:30	12/12/22 22:37	1
o-Terphenyl	140	S1+	70 - 130	12/12/22 09:30	12/12/22 22:37	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.0		4.95	0.391	mg/Kg			12/13/22 16:30	1

Client Sample ID: S-3

Lab Sample ID: 890-3613-7

Date Collected: 12/07/22 14:14

Matrix: Solid

Date Received: 12/08/22 16:58

Sample Depth: 0-0.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		12/12/22 15:50	12/13/22 14:11	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		12/12/22 15:50	12/13/22 14:11	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		12/12/22 15:50	12/13/22 14:11	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		12/12/22 15:50	12/13/22 14:11	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		12/12/22 15:50	12/13/22 14:11	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		12/12/22 15:50	12/13/22 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	12/12/22 15:50	12/13/22 14:11	1

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Client Sample Results

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

Client Sample ID: S-3

Lab Sample ID: 890-3613-7

Date Collected: 12/07/22 14:14

Matrix: Solid

Date Received: 12/08/22 16:58

Sample Depth: 0-0.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104		70 - 130	12/12/22 15:50	12/13/22 14:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00402	0.00101	mg/Kg			12/13/22 15:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<14.9	U	49.8	14.9	mg/Kg			12/13/22 10:27	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	<14.9	U	49.8	14.9	mg/Kg		12/12/22 09:30	12/12/22 22:59	1
Diesel Range Organics (Over C10-C28)	<14.9	U	49.8	14.9	mg/Kg		12/12/22 09:30	12/12/22 22:59	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		12/12/22 09:30	12/12/22 22:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				12/12/22 09:30	12/12/22 22:59	1
o-Terphenyl	120		70 - 130				12/12/22 09:30	12/12/22 22:59	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.8		5.01	0.396	mg/Kg			12/13/22 16:37	1

Client Sample ID: S-3

Lab Sample ID: 890-3613-8

Date Collected: 12/07/22 14:17

Matrix: Solid

Date Received: 12/08/22 16:58

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/12/22 15:50	12/13/22 14:32	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		12/12/22 15:50	12/13/22 14:32	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		12/12/22 15:50	12/13/22 14:32	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		12/12/22 15:50	12/13/22 14:32	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		12/12/22 15:50	12/13/22 14:32	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		12/12/22 15:50	12/13/22 14:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	12/12/22 15:50	12/13/22 14:32	1
1,4-Difluorobenzene (Surr)	99		70 - 130	12/12/22 15:50	12/13/22 14:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			12/13/22 15:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	16.5	J	49.9	15.0	mg/Kg			12/13/22 10:27	1

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Client Sample Results

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

Client Sample ID: S-3

Lab Sample ID: 890-3613-8

Date Collected: 12/07/22 14:17

Matrix: Solid

Date Received: 12/08/22 16:58

Sample Depth: 2'

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	16.5	J	49.9	15.0	mg/Kg		12/12/22 09:30	12/12/22 23:21	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		12/12/22 09:30	12/12/22 23:21	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/12/22 09:30	12/12/22 23:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				12/12/22 09:30	12/12/22 23:21	1
o-Terphenyl	118		70 - 130				12/12/22 09:30	12/12/22 23:21	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	345		5.04	0.398	mg/Kg			12/13/22 16:44	1

Client Sample ID: S-3

Lab Sample ID: 890-3613-9

Date Collected: 12/07/22 14:19

Matrix: Solid

Date Received: 12/08/22 16:58

Sample Depth: 3'R

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/12/22 15:50	12/13/22 14:52	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		12/12/22 15:50	12/13/22 14:52	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		12/12/22 15:50	12/13/22 14:52	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		12/12/22 15:50	12/13/22 14:52	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		12/12/22 15:50	12/13/22 14:52	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		12/12/22 15:50	12/13/22 14:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				12/12/22 15:50	12/13/22 14:52	1
1,4-Difluorobenzene (Surr)	101		70 - 130				12/12/22 15:50	12/13/22 14:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			12/13/22 15:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg			12/13/22 10:27	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	<15.0	U	49.9	15.0	mg/Kg		12/12/22 09:30	12/12/22 23:43	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		12/12/22 09:30	12/12/22 23:43	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/12/22 09:30	12/12/22 23:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				12/12/22 09:30	12/12/22 23:43	1
o-Terphenyl	119		70 - 130				12/12/22 09:30	12/12/22 23:43	1

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Client Sample Results

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

Client Sample ID: S-3

Lab Sample ID: 890-3613-9

Date Collected: 12/07/22 14:19

Matrix: Solid

Date Received: 12/08/22 16:58

Sample Depth: 3'R

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	351		4.99	0.394	mg/Kg			12/13/22 16:52	1

Client Sample ID: S-4

Lab Sample ID: 890-3613-10

Date Collected: 12/07/22 14:23

Matrix: Solid

Date Received: 12/08/22 16:58

Sample Depth: 0-0.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000382	U	0.00198	0.000382	mg/Kg		12/12/22 15:50	12/13/22 15:13	1
Toluene	<0.000452	U	0.00198	0.000452	mg/Kg		12/12/22 15:50	12/13/22 15:13	1
Ethylbenzene	<0.000561	U	0.00198	0.000561	mg/Kg		12/12/22 15:50	12/13/22 15:13	1
m-Xylene & p-Xylene	<0.00100	U	0.00397	0.00100	mg/Kg		12/12/22 15:50	12/13/22 15:13	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		12/12/22 15:50	12/13/22 15:13	1
Xylenes, Total	<0.00100	U	0.00397	0.00100	mg/Kg		12/12/22 15:50	12/13/22 15:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				12/12/22 15:50	12/13/22 15:13	1
1,4-Difluorobenzene (Surr)	96		70 - 130				12/12/22 15:50	12/13/22 15:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00397	0.00100	mg/Kg			12/13/22 15:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	17.7	J	49.9	15.0	mg/Kg			12/13/22 10:27	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	<15.0	U	49.9	15.0	mg/Kg		12/12/22 09:30	12/13/22 00:04	1
Diesel Range Organics (Over C10-C28)	17.7	J B	49.9	15.0	mg/Kg		12/12/22 09:30	12/13/22 00:04	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/12/22 09:30	12/13/22 00:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				12/12/22 09:30	12/13/22 00:04	1
o-Terphenyl	125		70 - 130				12/12/22 09:30	12/13/22 00:04	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.9		5.03	0.397	mg/Kg			12/13/22 16:59	1

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Client Sample Results

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

Client Sample ID: S-4

Lab Sample ID: 890-3613-11

Date Collected: 12/07/22 14:27

Matrix: Solid

Date Received: 12/08/22 16:58

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/12/22 16:20	12/13/22 12:48	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		12/12/22 16:20	12/13/22 12:48	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		12/12/22 16:20	12/13/22 12:48	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		12/12/22 16:20	12/13/22 12:48	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		12/12/22 16:20	12/13/22 12:48	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		12/12/22 16:20	12/13/22 12:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	12/12/22 16:20	12/13/22 12:48	1
1,4-Difluorobenzene (Surr)	91		70 - 130	12/12/22 16:20	12/13/22 12:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			12/13/22 14:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<14.9	U	49.8	14.9	mg/Kg			12/13/22 10:27	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	<14.9	U	49.8	14.9	mg/Kg		12/12/22 09:30	12/13/22 00:26	1
Diesel Range Organics (Over C10-C28)	<14.9	U	49.8	14.9	mg/Kg		12/12/22 09:30	12/13/22 00:26	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		12/12/22 09:30	12/13/22 00:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	12/12/22 09:30	12/13/22 00:26	1
o-Terphenyl	120		70 - 130	12/12/22 09:30	12/13/22 00:26	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	309		5.04	0.398	mg/Kg			12/13/22 17:06	1

Client Sample ID: S-4

Lab Sample ID: 890-3613-12

Date Collected: 12/07/22 14:28

Matrix: Solid

Date Received: 12/08/22 16:58

Sample Depth: 3'R

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		12/12/22 16:20	12/13/22 13:08	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		12/12/22 16:20	12/13/22 13:08	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		12/12/22 16:20	12/13/22 13:08	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		12/12/22 16:20	12/13/22 13:08	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		12/12/22 16:20	12/13/22 13:08	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		12/12/22 16:20	12/13/22 13:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	12/12/22 16:20	12/13/22 13:08	1

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Client Sample Results

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

Client Sample ID: S-4

Lab Sample ID: 890-3613-12

Date Collected: 12/07/22 14:28

Matrix: Solid

Date Received: 12/08/22 16:58

Sample Depth: 3'R

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	86		70 - 130	12/12/22 16:20	12/13/22 13:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00402	0.00102	mg/Kg			12/13/22 14:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	34.2	J	50.0	15.0	mg/Kg			12/13/22 10:27	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	18.9	J	50.0	15.0	mg/Kg		12/12/22 09:30	12/13/22 00:48	1
Diesel Range Organics (Over C10-C28)	15.3	J B	50.0	15.0	mg/Kg		12/12/22 09:30	12/13/22 00:48	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/12/22 09:30	12/13/22 00:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				12/12/22 09:30	12/13/22 00:48	1
o-Terphenyl	111		70 - 130				12/12/22 09:30	12/13/22 00:48	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	757		4.99	0.394	mg/Kg			12/13/22 17:28	1

Client Sample ID: S-5

Lab Sample ID: 890-3613-13

Date Collected: 12/07/22 14:35

Matrix: Solid

Date Received: 12/08/22 16:58

Sample Depth: 0-0.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		12/12/22 16:20	12/13/22 13:29	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		12/12/22 16:20	12/13/22 13:29	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		12/12/22 16:20	12/13/22 13:29	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		12/12/22 16:20	12/13/22 13:29	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		12/12/22 16:20	12/13/22 13:29	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		12/12/22 16:20	12/13/22 13:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	12/12/22 16:20	12/13/22 13:29	1
1,4-Difluorobenzene (Surr)	99		70 - 130	12/12/22 16:20	12/13/22 13:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			12/13/22 14:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	142		50.0	15.0	mg/Kg			12/13/22 10:27	1

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Client Sample Results

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

Client Sample ID: S-5

Lab Sample ID: 890-3613-13

Date Collected: 12/07/22 14:35

Matrix: Solid

Date Received: 12/08/22 16:58

Sample Depth: 0-0.5'

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	47.3	J	50.0	15.0	mg/Kg		12/12/22 09:30	12/13/22 01:32	1
Diesel Range Organics (Over C10-C28)	73.0	B	50.0	15.0	mg/Kg		12/12/22 09:30	12/13/22 01:32	1
Oil Range Organics (Over C28-C36)	21.2	J B	50.0	15.0	mg/Kg		12/12/22 09:30	12/13/22 01:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				12/12/22 09:30	12/13/22 01:32	1
o-Terphenyl	130		70 - 130				12/12/22 09:30	12/13/22 01:32	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	333		4.98	0.393	mg/Kg			12/13/22 17:35	1

Client Sample ID: S-5

Lab Sample ID: 890-3613-14

Date Collected: 12/07/22 14:41

Matrix: Solid

Date Received: 12/08/22 16:58

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/12/22 16:20	12/13/22 13:49	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		12/12/22 16:20	12/13/22 13:49	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		12/12/22 16:20	12/13/22 13:49	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		12/12/22 16:20	12/13/22 13:49	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		12/12/22 16:20	12/13/22 13:49	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		12/12/22 16:20	12/13/22 13:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				12/12/22 16:20	12/13/22 13:49	1
1,4-Difluorobenzene (Surr)	100		70 - 130				12/12/22 16:20	12/13/22 13:49	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			12/13/22 14:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	663		49.9	15.0	mg/Kg			12/13/22 10:27	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	21.1	J	49.9	15.0	mg/Kg		12/12/22 09:30	12/13/22 01:54	1
Diesel Range Organics (Over C10-C28)	514	B	49.9	15.0	mg/Kg		12/12/22 09:30	12/13/22 01:54	1
Oil Range Organics (Over C28-C36)	128	B	49.9	15.0	mg/Kg		12/12/22 09:30	12/13/22 01:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				12/12/22 09:30	12/13/22 01:54	1

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Client Sample Results

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

Client Sample ID: S-5

Lab Sample ID: 890-3613-14

Date Collected: 12/07/22 14:41

Matrix: Solid

Date Received: 12/08/22 16:58

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	114		70 - 130	12/12/22 09:30	12/13/22 01:54	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	359		5.00	0.395	mg/Kg			12/13/22 17:57	1

Client Sample ID: S-5

Lab Sample ID: 890-3613-15

Date Collected: 12/07/22 14:45

Matrix: Solid

Date Received: 12/08/22 16:58

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/12/22 16:20	12/13/22 14:10	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		12/12/22 16:20	12/13/22 14:10	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		12/12/22 16:20	12/13/22 14:10	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		12/12/22 16:20	12/13/22 14:10	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		12/12/22 16:20	12/13/22 14:10	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		12/12/22 16:20	12/13/22 14:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	12/12/22 16:20	12/13/22 14:10	1
1,4-Difluorobenzene (Surr)	90		70 - 130	12/12/22 16:20	12/13/22 14:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			12/13/22 14:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	211		49.9	15.0	mg/Kg			12/13/22 10:27	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	29.5	J	49.9	15.0	mg/Kg		12/12/22 09:30	12/13/22 02:39	1
Diesel Range Organics (Over C10-C28)	133	B	49.9	15.0	mg/Kg		12/12/22 09:30	12/13/22 02:39	1
Oil Range Organics (Over C28-C36)	48.9	J B	49.9	15.0	mg/Kg		12/12/22 09:30	12/13/22 02:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	12/12/22 09:30	12/13/22 02:39	1
o-Terphenyl	109		70 - 130	12/12/22 09:30	12/13/22 02:39	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	547		4.95	0.391	mg/Kg			12/13/22 18:04	1

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Client Sample Results

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

Client Sample ID: S-5

Lab Sample ID: 890-3613-16

Date Collected: 12/07/22 14:04

Matrix: Solid

Date Received: 12/08/22 16:58

Sample Depth: 3'R

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		12/12/22 16:20	12/13/22 14:30	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		12/12/22 16:20	12/13/22 14:30	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		12/12/22 16:20	12/13/22 14:30	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		12/12/22 16:20	12/13/22 14:30	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		12/12/22 16:20	12/13/22 14:30	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		12/12/22 16:20	12/13/22 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	12/12/22 16:20	12/13/22 14:30	1
1,4-Difluorobenzene (Surr)	96		70 - 130	12/12/22 16:20	12/13/22 14:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			12/13/22 14:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	225		50.0	15.0	mg/Kg			12/13/22 10:27	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	20.5	J	50.0	15.0	mg/Kg		12/12/22 09:30	12/13/22 03:01	1
Diesel Range Organics (Over C10-C28)	154	B	50.0	15.0	mg/Kg		12/12/22 09:30	12/13/22 03:01	1
Oil Range Organics (Over C28-C36)	50.2	B	50.0	15.0	mg/Kg		12/12/22 09:30	12/13/22 03:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	12/12/22 09:30	12/13/22 03:01	1
o-Terphenyl	115		70 - 130	12/12/22 09:30	12/13/22 03:01	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	648		5.02	0.397	mg/Kg			12/13/22 18:11	1

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Surrogate Summary

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-3613-1	S-1	119	100
890-3613-1 MS	S-1	104	98
890-3613-1 MSD	S-1	105	99
890-3613-2	S-1	126	102
890-3613-3	S-1	119	100
890-3613-4	S-2	118	105
890-3613-5	S-2	119	100
890-3613-6	S-2	120	99
890-3613-7	S-3	126	104
890-3613-8	S-3	124	99
890-3613-9	S-3	121	101
890-3613-10	S-4	121	96
890-3613-11	S-4	108	91
890-3613-12	S-4	99	86
890-3613-13	S-5	99	99
890-3613-14	S-5	111	100
890-3613-15	S-5	99	90
890-3613-16	S-5	117	96
LCS 880-41398/1-A	Lab Control Sample	99	112
LCS 880-41668/1-A	Lab Control Sample	96	92
LCSD 880-41398/2-A	Lab Control Sample Dup	108	114
LCSD 880-41668/2-A	Lab Control Sample Dup	95	97
MB 880-41398/5-A	Method Blank	90	101
MB 880-41668/5-A	Method Blank	106	87
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)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-3613-1	S-1	112	126
890-3613-1 MS	S-1	116	117
890-3613-1 MSD	S-1	99	99
890-3613-2	S-1	105	115
890-3613-3	S-1	122	131 S1+
890-3613-4	S-2	100	111
890-3613-5	S-2	130	144 S1+
890-3613-6	S-2	126	140 S1+
890-3613-7	S-3	108	120
890-3613-8	S-3	106	118
890-3613-9	S-3	106	119
890-3613-10	S-4	109	125
890-3613-11	S-4	106	120
890-3613-12	S-4	99	111
890-3613-13	S-5	118	130

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Surrogate Summary

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County 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)
890-3613-14	S-5	107	114
890-3613-15	S-5	102	109
890-3613-16	S-5	106	115
LCS 880-41575/2-A	Lab Control Sample	133 S1+	159 S1+
LCSD 880-41575/3-A	Lab Control Sample Dup	131 S1+	156 S1+
MB 880-41575/1-A	Method Blank	140 S1+	210 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-41398/5-A

Matrix: Solid

Analysis Batch: 41704

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41398

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		12/12/22 16:20	12/13/22 12:05	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		12/12/22 16:20	12/13/22 12:05	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		12/12/22 16:20	12/13/22 12:05	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		12/12/22 16:20	12/13/22 12:05	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		12/12/22 16:20	12/13/22 12:05	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		12/12/22 16:20	12/13/22 12:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	12/12/22 16:20	12/13/22 12:05	1
1,4-Difluorobenzene (Surr)	101		70 - 130	12/12/22 16:20	12/13/22 12:05	1

Lab Sample ID: LCS 880-41398/1-A

Matrix: Solid

Analysis Batch: 41704

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41398

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1093		mg/Kg		109	70 - 130
Toluene	0.100	0.09743		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.09490		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.1985		mg/Kg		99	70 - 130
o-Xylene	0.100	0.09688		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: LCSD 880-41398/2-A

Matrix: Solid

Analysis Batch: 41704

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41398

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1242		mg/Kg		124	70 - 130	13	35
Toluene	0.100	0.1070		mg/Kg		107	70 - 130	9	35
Ethylbenzene	0.100	0.1123		mg/Kg		112	70 - 130	17	35
m-Xylene & p-Xylene	0.200	0.2297		mg/Kg		115	70 - 130	15	35
o-Xylene	0.100	0.1124		mg/Kg		112	70 - 130	15	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: MB 880-41668/5-A

Matrix: Solid

Analysis Batch: 41701

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41668

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		12/12/22 15:50	12/13/22 11:45	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		12/12/22 15:50	12/13/22 11:45	1

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QC Sample Results

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

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

Lab Sample ID: MB 880-41668/5-A

Matrix: Solid

Analysis Batch: 41701

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41668

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		12/12/22 15:50	12/13/22 11:45	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		12/12/22 15:50	12/13/22 11:45	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		12/12/22 15:50	12/13/22 11:45	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		12/12/22 15:50	12/13/22 11:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	12/12/22 15:50	12/13/22 11:45	1
1,4-Difluorobenzene (Surr)	87		70 - 130	12/12/22 15:50	12/13/22 11:45	1

Lab Sample ID: LCS 880-41668/1-A

Matrix: Solid

Analysis Batch: 41701

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41668

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.1175		mg/Kg		118	70 - 130
Toluene	0.100	0.1084		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.1053		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2247		mg/Kg		112	70 - 130
o-Xylene	0.100	0.1096		mg/Kg		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-41668/2-A

Matrix: Solid

Analysis Batch: 41701

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41668

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1136		mg/Kg		114	70 - 130	3	35
Toluene	0.100	0.1036		mg/Kg		104	70 - 130	5	35
Ethylbenzene	0.100	0.09505		mg/Kg		95	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.1989		mg/Kg		99	70 - 130	12	35
o-Xylene	0.100	0.09808		mg/Kg		98	70 - 130	11	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-3613-1 MS

Matrix: Solid

Analysis Batch: 41701

Client Sample ID: S-1

Prep Type: Total/NA

Prep Batch: 41668

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Benzene	0.000416	J	0.0998	0.08393		mg/Kg		84	70 - 130
Toluene	<0.000459	U	0.0998	0.08250		mg/Kg		83	70 - 130
Ethylbenzene	<0.000568	U	0.0998	0.08222		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	<0.00102	U	0.200	0.1739		mg/Kg		87	70 - 130

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QC Sample Results

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

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

Lab Sample ID: 890-3613-1 MS

Matrix: Solid

Analysis Batch: 41701

Client Sample ID: S-1

Prep Type: Total/NA

Prep Batch: 41668

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	<0.000346	U	0.0998	0.08792		mg/Kg		88	70 - 130
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	104		70 - 130						
1,4-Difluorobenzene (Surr)	98		70 - 130						

Lab Sample ID: 890-3613-1 MSD

Matrix: Solid

Analysis Batch: 41701

Client Sample ID: S-1

Prep Type: Total/NA

Prep Batch: 41668

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.000416	J	0.100	0.07966		mg/Kg		79	70 - 130	5	35
Toluene	<0.000459	U	0.100	0.07771		mg/Kg		78	70 - 130	6	35
Ethylbenzene	<0.000568	U	0.100	0.07671		mg/Kg		77	70 - 130	7	35
m-Xylene & p-Xylene	<0.00102	U	0.200	0.1619		mg/Kg		81	70 - 130	7	35
o-Xylene	<0.000346	U	0.100	0.08296		mg/Kg		83	70 - 130	6	35
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	105		70 - 130								
1,4-Difluorobenzene (Surr)	99		70 - 130								

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

Lab Sample ID: MB 880-41575/1-A

Matrix: Solid

Analysis Batch: 41559

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41575

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		12/12/22 09:30	12/12/22 19:41	1
Diesel Range Organics (Over C10-C28)	29.35	J	50.0	15.0	mg/Kg		12/12/22 09:30	12/12/22 19:41	1
Oil Range Organics (Over C28-C36)	15.55	J	50.0	15.0	mg/Kg		12/12/22 09:30	12/12/22 19:41	1
Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	140	S1+	70 - 130	12/12/22 09:30	12/12/22 19:41	1			
o-Terphenyl	210	S1+	70 - 130	12/12/22 09:30	12/12/22 19:41	1			

Lab Sample ID: LCS 880-41575/2-A

Matrix: Solid

Analysis Batch: 41559

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41575

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	929.8		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	1000	882.7		mg/Kg		88	70 - 130

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QC Sample Results

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

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

Lab Sample ID: LCS 880-41575/2-A
Matrix: Solid
Analysis Batch: 41559

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41575

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	133	S1+	70 - 130
o-Terphenyl	159	S1+	70 - 130

Lab Sample ID: LCSD 880-41575/3-A
Matrix: Solid
Analysis Batch: 41559

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 41575

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	807.2		mg/Kg		81	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	1000	871.3		mg/Kg		87	70 - 130	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	131	S1+	70 - 130
o-Terphenyl	156	S1+	70 - 130

Lab Sample ID: 890-3613-1 MS
Matrix: Solid
Analysis Batch: 41559

Client Sample ID: S-1
Prep Type: Total/NA
Prep Batch: 41575

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<15.0	U F2	999	1283		mg/Kg		128	70 - 130
Diesel Range Organics (Over C10-C28)	<15.0	U	999	1279		mg/Kg		128	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	117		70 - 130

Lab Sample ID: 890-3613-1 MSD
Matrix: Solid
Analysis Batch: 41559

Client Sample ID: S-1
Prep Type: Total/NA
Prep Batch: 41575

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	<15.0	U F2	997	971.7	F2	mg/Kg		97	70 - 130	28	20
Diesel Range Organics (Over C10-C28)	<15.0	U	997	1088		mg/Kg		109	70 - 130	16	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	99		70 - 130

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QC Sample Results

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-41569/1-A

Matrix: Solid

Analysis Batch: 41691

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			12/13/22 14:12	1

Lab Sample ID: LCS 880-41569/2-A

Matrix: Solid

Analysis Batch: 41691

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.3		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-41569/3-A

Matrix: Solid

Analysis Batch: 41691

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	255.9		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 890-3613-1 MS

Matrix: Solid

Analysis Batch: 41691

Client Sample ID: S-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	150		253	408.2		mg/Kg		102	90 - 110

Lab Sample ID: 890-3613-1 MSD

Matrix: Solid

Analysis Batch: 41691

Client Sample ID: S-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	150		253	404.8		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 890-3613-11 MS

Matrix: Solid

Analysis Batch: 41691

Client Sample ID: S-4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	309		252	548.2		mg/Kg		95	90 - 110

Lab Sample ID: 890-3613-11 MSD

Matrix: Solid

Analysis Batch: 41691

Client Sample ID: S-4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	309		252	550.3		mg/Kg		96	90 - 110	0	20

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QC Association Summary

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

GC VOA

Prep Batch: 41398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3613-11	S-4	Total/NA	Solid	5035	
890-3613-12	S-4	Total/NA	Solid	5035	
890-3613-13	S-5	Total/NA	Solid	5035	
890-3613-14	S-5	Total/NA	Solid	5035	
890-3613-15	S-5	Total/NA	Solid	5035	
890-3613-16	S-5	Total/NA	Solid	5035	
MB 880-41398/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-41398/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-41398/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 41668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3613-1	S-1	Total/NA	Solid	5035	
890-3613-2	S-1	Total/NA	Solid	5035	
890-3613-3	S-1	Total/NA	Solid	5035	
890-3613-4	S-2	Total/NA	Solid	5035	
890-3613-5	S-2	Total/NA	Solid	5035	
890-3613-6	S-2	Total/NA	Solid	5035	
890-3613-7	S-3	Total/NA	Solid	5035	
890-3613-8	S-3	Total/NA	Solid	5035	
890-3613-9	S-3	Total/NA	Solid	5035	
890-3613-10	S-4	Total/NA	Solid	5035	
MB 880-41668/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-41668/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-41668/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3613-1 MS	S-1	Total/NA	Solid	5035	
890-3613-1 MSD	S-1	Total/NA	Solid	5035	

Analysis Batch: 41701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3613-1	S-1	Total/NA	Solid	8021B	41668
890-3613-2	S-1	Total/NA	Solid	8021B	41668
890-3613-3	S-1	Total/NA	Solid	8021B	41668
890-3613-4	S-2	Total/NA	Solid	8021B	41668
890-3613-5	S-2	Total/NA	Solid	8021B	41668
890-3613-6	S-2	Total/NA	Solid	8021B	41668
890-3613-7	S-3	Total/NA	Solid	8021B	41668
890-3613-8	S-3	Total/NA	Solid	8021B	41668
890-3613-9	S-3	Total/NA	Solid	8021B	41668
890-3613-10	S-4	Total/NA	Solid	8021B	41668
MB 880-41668/5-A	Method Blank	Total/NA	Solid	8021B	41668
LCS 880-41668/1-A	Lab Control Sample	Total/NA	Solid	8021B	41668
LCSD 880-41668/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	41668
890-3613-1 MS	S-1	Total/NA	Solid	8021B	41668
890-3613-1 MSD	S-1	Total/NA	Solid	8021B	41668

Analysis Batch: 41704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3613-11	S-4	Total/NA	Solid	8021B	41398
890-3613-12	S-4	Total/NA	Solid	8021B	41398
890-3613-13	S-5	Total/NA	Solid	8021B	41398

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QC Association Summary

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

GC VOA (Continued)

Analysis Batch: 41704 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3613-14	S-5	Total/NA	Solid	8021B	41398
890-3613-15	S-5	Total/NA	Solid	8021B	41398
890-3613-16	S-5	Total/NA	Solid	8021B	41398
MB 880-41398/5-A	Method Blank	Total/NA	Solid	8021B	41398
LCS 880-41398/1-A	Lab Control Sample	Total/NA	Solid	8021B	41398
LCSD 880-41398/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	41398

Analysis Batch: 41762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3613-1	S-1	Total/NA	Solid	Total BTEX	
890-3613-2	S-1	Total/NA	Solid	Total BTEX	
890-3613-3	S-1	Total/NA	Solid	Total BTEX	
890-3613-4	S-2	Total/NA	Solid	Total BTEX	
890-3613-5	S-2	Total/NA	Solid	Total BTEX	
890-3613-6	S-2	Total/NA	Solid	Total BTEX	
890-3613-7	S-3	Total/NA	Solid	Total BTEX	
890-3613-8	S-3	Total/NA	Solid	Total BTEX	
890-3613-9	S-3	Total/NA	Solid	Total BTEX	
890-3613-10	S-4	Total/NA	Solid	Total BTEX	
890-3613-11	S-4	Total/NA	Solid	Total BTEX	
890-3613-12	S-4	Total/NA	Solid	Total BTEX	
890-3613-13	S-5	Total/NA	Solid	Total BTEX	
890-3613-14	S-5	Total/NA	Solid	Total BTEX	
890-3613-15	S-5	Total/NA	Solid	Total BTEX	
890-3613-16	S-5	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 41559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3613-1	S-1	Total/NA	Solid	8015B NM	41575
890-3613-2	S-1	Total/NA	Solid	8015B NM	41575
890-3613-3	S-1	Total/NA	Solid	8015B NM	41575
890-3613-4	S-2	Total/NA	Solid	8015B NM	41575
890-3613-5	S-2	Total/NA	Solid	8015B NM	41575
890-3613-6	S-2	Total/NA	Solid	8015B NM	41575
890-3613-7	S-3	Total/NA	Solid	8015B NM	41575
890-3613-8	S-3	Total/NA	Solid	8015B NM	41575
890-3613-9	S-3	Total/NA	Solid	8015B NM	41575
890-3613-10	S-4	Total/NA	Solid	8015B NM	41575
890-3613-11	S-4	Total/NA	Solid	8015B NM	41575
890-3613-12	S-4	Total/NA	Solid	8015B NM	41575
890-3613-13	S-5	Total/NA	Solid	8015B NM	41575
890-3613-14	S-5	Total/NA	Solid	8015B NM	41575
890-3613-15	S-5	Total/NA	Solid	8015B NM	41575
890-3613-16	S-5	Total/NA	Solid	8015B NM	41575
MB 880-41575/1-A	Method Blank	Total/NA	Solid	8015B NM	41575
LCS 880-41575/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41575
LCSD 880-41575/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41575
890-3613-1 MS	S-1	Total/NA	Solid	8015B NM	41575
890-3613-1 MSD	S-1	Total/NA	Solid	8015B NM	41575

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QC Association Summary

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

GC Semi VOA

Prep Batch: 41575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3613-1	S-1	Total/NA	Solid	8015NM Prep	
890-3613-2	S-1	Total/NA	Solid	8015NM Prep	
890-3613-3	S-1	Total/NA	Solid	8015NM Prep	
890-3613-4	S-2	Total/NA	Solid	8015NM Prep	
890-3613-5	S-2	Total/NA	Solid	8015NM Prep	
890-3613-6	S-2	Total/NA	Solid	8015NM Prep	
890-3613-7	S-3	Total/NA	Solid	8015NM Prep	
890-3613-8	S-3	Total/NA	Solid	8015NM Prep	
890-3613-9	S-3	Total/NA	Solid	8015NM Prep	
890-3613-10	S-4	Total/NA	Solid	8015NM Prep	
890-3613-11	S-4	Total/NA	Solid	8015NM Prep	
890-3613-12	S-4	Total/NA	Solid	8015NM Prep	
890-3613-13	S-5	Total/NA	Solid	8015NM Prep	
890-3613-14	S-5	Total/NA	Solid	8015NM Prep	
890-3613-15	S-5	Total/NA	Solid	8015NM Prep	
890-3613-16	S-5	Total/NA	Solid	8015NM Prep	
MB 880-41575/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41575/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41575/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3613-1 MS	S-1	Total/NA	Solid	8015NM Prep	
890-3613-1 MSD	S-1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 41725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3613-1	S-1	Total/NA	Solid	8015 NM	
890-3613-2	S-1	Total/NA	Solid	8015 NM	
890-3613-3	S-1	Total/NA	Solid	8015 NM	
890-3613-4	S-2	Total/NA	Solid	8015 NM	
890-3613-5	S-2	Total/NA	Solid	8015 NM	
890-3613-6	S-2	Total/NA	Solid	8015 NM	
890-3613-7	S-3	Total/NA	Solid	8015 NM	
890-3613-8	S-3	Total/NA	Solid	8015 NM	
890-3613-9	S-3	Total/NA	Solid	8015 NM	
890-3613-10	S-4	Total/NA	Solid	8015 NM	
890-3613-11	S-4	Total/NA	Solid	8015 NM	
890-3613-12	S-4	Total/NA	Solid	8015 NM	
890-3613-13	S-5	Total/NA	Solid	8015 NM	
890-3613-14	S-5	Total/NA	Solid	8015 NM	
890-3613-15	S-5	Total/NA	Solid	8015 NM	
890-3613-16	S-5	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 41569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3613-1	S-1	Soluble	Solid	DI Leach	
890-3613-2	S-1	Soluble	Solid	DI Leach	
890-3613-3	S-1	Soluble	Solid	DI Leach	
890-3613-4	S-2	Soluble	Solid	DI Leach	
890-3613-5	S-2	Soluble	Solid	DI Leach	
890-3613-6	S-2	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

HPLC/IC (Continued)

Leach Batch: 41569 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3613-7	S-3	Soluble	Solid	DI Leach	
890-3613-8	S-3	Soluble	Solid	DI Leach	
890-3613-9	S-3	Soluble	Solid	DI Leach	
890-3613-10	S-4	Soluble	Solid	DI Leach	
890-3613-11	S-4	Soluble	Solid	DI Leach	
890-3613-12	S-4	Soluble	Solid	DI Leach	
890-3613-13	S-5	Soluble	Solid	DI Leach	
890-3613-14	S-5	Soluble	Solid	DI Leach	
890-3613-15	S-5	Soluble	Solid	DI Leach	
890-3613-16	S-5	Soluble	Solid	DI Leach	
MB 880-41569/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-41569/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-41569/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3613-1 MS	S-1	Soluble	Solid	DI Leach	
890-3613-1 MSD	S-1	Soluble	Solid	DI Leach	
890-3613-11 MS	S-4	Soluble	Solid	DI Leach	
890-3613-11 MSD	S-4	Soluble	Solid	DI Leach	

Analysis Batch: 41691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3613-1	S-1	Soluble	Solid	300.0	41569
890-3613-2	S-1	Soluble	Solid	300.0	41569
890-3613-3	S-1	Soluble	Solid	300.0	41569
890-3613-4	S-2	Soluble	Solid	300.0	41569
890-3613-5	S-2	Soluble	Solid	300.0	41569
890-3613-6	S-2	Soluble	Solid	300.0	41569
890-3613-7	S-3	Soluble	Solid	300.0	41569
890-3613-8	S-3	Soluble	Solid	300.0	41569
890-3613-9	S-3	Soluble	Solid	300.0	41569
890-3613-10	S-4	Soluble	Solid	300.0	41569
890-3613-11	S-4	Soluble	Solid	300.0	41569
890-3613-12	S-4	Soluble	Solid	300.0	41569
890-3613-13	S-5	Soluble	Solid	300.0	41569
890-3613-14	S-5	Soluble	Solid	300.0	41569
890-3613-15	S-5	Soluble	Solid	300.0	41569
890-3613-16	S-5	Soluble	Solid	300.0	41569
MB 880-41569/1-A	Method Blank	Soluble	Solid	300.0	41569
LCS 880-41569/2-A	Lab Control Sample	Soluble	Solid	300.0	41569
LCSD 880-41569/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	41569
890-3613-1 MS	S-1	Soluble	Solid	300.0	41569
890-3613-1 MSD	S-1	Soluble	Solid	300.0	41569
890-3613-11 MS	S-4	Soluble	Solid	300.0	41569
890-3613-11 MSD	S-4	Soluble	Solid	300.0	41569

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Lab Chronicle

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

Client Sample ID: S-1

Lab Sample ID: 890-3613-1

Date Collected: 12/07/22 13:53

Matrix: Solid

Date Received: 12/08/22 16:58

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	41668	12/12/22 15:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41701	12/13/22 12:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41762	12/13/22 15:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			41725	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41575	12/12/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 20:47	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	41569	12/12/22 08:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41691	12/13/22 15:25	CH	EET MID

Client Sample ID: S-1

Lab Sample ID: 890-3613-2

Date Collected: 12/07/22 13:59

Matrix: Solid

Date Received: 12/08/22 16:58

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	41668	12/12/22 15:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41701	12/13/22 12:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41762	12/13/22 15:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			41725	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41575	12/12/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/13/22 02:17	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	41569	12/12/22 08:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41691	12/13/22 15:47	CH	EET MID

Client Sample ID: S-1

Lab Sample ID: 890-3613-3

Date Collected: 12/07/22 14:02

Matrix: Solid

Date Received: 12/08/22 16:58

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	41668	12/12/22 15:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41701	12/13/22 12:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41762	12/13/22 15:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			41725	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41575	12/12/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/13/22 03:23	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	41569	12/12/22 08:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41691	12/13/22 15:54	CH	EET MID

Client Sample ID: S-2

Lab Sample ID: 890-3613-4

Date Collected: 12/07/22 14:07

Matrix: Solid

Date Received: 12/08/22 16:58

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	41668	12/12/22 15:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41701	12/13/22 13:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41762	12/13/22 15:44	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

Client Sample ID: S-2

Lab Sample ID: 890-3613-4

Date Collected: 12/07/22 14:07

Matrix: Solid

Date Received: 12/08/22 16:58

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			41725	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41575	12/12/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 21:53	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	41569	12/12/22 08:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41691	12/13/22 16:01	CH	EET MID

Client Sample ID: S-2

Lab Sample ID: 890-3613-5

Date Collected: 12/07/22 14:09

Matrix: Solid

Date Received: 12/08/22 16:58

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	41668	12/12/22 15:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41701	12/13/22 13:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41762	12/13/22 15:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			41725	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41575	12/12/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 22:15	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	41569	12/12/22 08:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41691	12/13/22 16:08	CH	EET MID

Client Sample ID: S-2

Lab Sample ID: 890-3613-6

Date Collected: 12/07/22 14:11

Matrix: Solid

Date Received: 12/08/22 16:58

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	41668	12/12/22 15:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41701	12/13/22 13:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41762	12/13/22 15:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			41725	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41575	12/12/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 22:37	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	41569	12/12/22 08:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41691	12/13/22 16:30	CH	EET MID

Client Sample ID: S-3

Lab Sample ID: 890-3613-7

Date Collected: 12/07/22 14:14

Matrix: Solid

Date Received: 12/08/22 16:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	41668	12/12/22 15:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41701	12/13/22 14:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41762	12/13/22 15:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			41725	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	41575	12/12/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 22:59	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

Client Sample ID: S-3

Lab Sample ID: 890-3613-7

Date Collected: 12/07/22 14:14

Matrix: Solid

Date Received: 12/08/22 16:58

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	41569	12/12/22 08:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41691	12/13/22 16:37	CH	EET MID

Client Sample ID: S-3

Lab Sample ID: 890-3613-8

Date Collected: 12/07/22 14:17

Matrix: Solid

Date Received: 12/08/22 16:58

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	41668	12/12/22 15:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41701	12/13/22 14:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41762	12/13/22 15:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			41725	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41575	12/12/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 23:21	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	41569	12/12/22 08:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41691	12/13/22 16:44	CH	EET MID

Client Sample ID: S-3

Lab Sample ID: 890-3613-9

Date Collected: 12/07/22 14:19

Matrix: Solid

Date Received: 12/08/22 16:58

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	41668	12/12/22 15:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41701	12/13/22 14:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41762	12/13/22 15:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			41725	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41575	12/12/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 23:43	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	41569	12/12/22 08:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41691	12/13/22 16:52	CH	EET MID

Client Sample ID: S-4

Lab Sample ID: 890-3613-10

Date Collected: 12/07/22 14:23

Matrix: Solid

Date Received: 12/08/22 16:58

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	41668	12/12/22 15:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41701	12/13/22 15:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41762	12/13/22 15:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			41725	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41575	12/12/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/13/22 00:04	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	41569	12/12/22 08:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41691	12/13/22 16:59	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

Client Sample ID: S-4

Lab Sample ID: 890-3613-11

Date Collected: 12/07/22 14:27

Matrix: Solid

Date Received: 12/08/22 16:58

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	41398	12/12/22 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41704	12/13/22 12:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41762	12/13/22 14:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			41725	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	41575	12/12/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/13/22 00:26	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	41569	12/12/22 08:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41691	12/13/22 17:06	CH	EET MID

Client Sample ID: S-4

Lab Sample ID: 890-3613-12

Date Collected: 12/07/22 14:28

Matrix: Solid

Date Received: 12/08/22 16:58

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	41398	12/12/22 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41704	12/13/22 13:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41762	12/13/22 14:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			41725	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41575	12/12/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/13/22 00:48	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	41569	12/12/22 08:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41691	12/13/22 17:28	CH	EET MID

Client Sample ID: S-5

Lab Sample ID: 890-3613-13

Date Collected: 12/07/22 14:35

Matrix: Solid

Date Received: 12/08/22 16:58

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	41398	12/12/22 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41704	12/13/22 13:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41762	12/13/22 14:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			41725	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41575	12/12/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/13/22 01:32	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	41569	12/12/22 08:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41691	12/13/22 17:35	CH	EET MID

Client Sample ID: S-5

Lab Sample ID: 890-3613-14

Date Collected: 12/07/22 14:41

Matrix: Solid

Date Received: 12/08/22 16:58

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	41398	12/12/22 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41704	12/13/22 13:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41762	12/13/22 14:56	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

Client Sample ID: S-5

Lab Sample ID: 890-3613-14

Date Collected: 12/07/22 14:41

Matrix: Solid

Date Received: 12/08/22 16:58

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			41725	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41575	12/12/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/13/22 01:54	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	41569	12/12/22 08:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41691	12/13/22 17:57	CH	EET MID

Client Sample ID: S-5

Lab Sample ID: 890-3613-15

Date Collected: 12/07/22 14:45

Matrix: Solid

Date Received: 12/08/22 16:58

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	41398	12/12/22 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41704	12/13/22 14:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41762	12/13/22 14:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			41725	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41575	12/12/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/13/22 02:39	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	41569	12/12/22 08:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41691	12/13/22 18:04	CH	EET MID

Client Sample ID: S-5

Lab Sample ID: 890-3613-16

Date Collected: 12/07/22 14:04

Matrix: Solid

Date Received: 12/08/22 16:58

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	41398	12/12/22 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41704	12/13/22 14:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41762	12/13/22 14:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			41725	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41575	12/12/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/13/22 03:01	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	41569	12/12/22 08:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41691	12/13/22 18:11	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County 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	T104704400-22-24	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
Total BTEX		Solid	Total BTEX

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Method Summary

Client: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

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: Talon/LPE
Project/Site: Big Sky ABY State 1

Job ID: 890-3613-1
SDG: Chaves County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3613-1	S-1	Solid	12/07/22 13:53	12/08/22 16:58	0-0.5'
890-3613-2	S-1	Solid	12/07/22 13:59	12/08/22 16:58	2'
890-3613-3	S-1	Solid	12/07/22 14:02	12/08/22 16:58	3'R
890-3613-4	S-2	Solid	12/07/22 14:07	12/08/22 16:58	0-0.5'
890-3613-5	S-2	Solid	12/07/22 14:09	12/08/22 16:58	2'
890-3613-6	S-2	Solid	12/07/22 14:11	12/08/22 16:58	3'R
890-3613-7	S-3	Solid	12/07/22 14:14	12/08/22 16:58	0-0.5'
890-3613-8	S-3	Solid	12/07/22 14:17	12/08/22 16:58	2'
890-3613-9	S-3	Solid	12/07/22 14:19	12/08/22 16:58	3'R
890-3613-10	S-4	Solid	12/07/22 14:23	12/08/22 16:58	0-0.5'
890-3613-11	S-4	Solid	12/07/22 14:27	12/08/22 16:58	2'
890-3613-12	S-4	Solid	12/07/22 14:28	12/08/22 16:58	3'R
890-3613-13	S-5	Solid	12/07/22 14:35	12/08/22 16:58	0-0.5'
890-3613-14	S-5	Solid	12/07/22 14:41	12/08/22 16:58	1'
890-3613-15	S-5	Solid	12/07/22 14:45	12/08/22 16:58	2'
890-3613-16	S-5	Solid	12/07/22 14:04	12/08/22 16:58	3'R



Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager:	Chad Hensley	Bill to: (if different)	Jeremy Haass
Company Name:	Talon LPE	Company Name:	EOG
Address:	408 W. Texas Ave.	Address:	
City, State ZIP:	Artesia, NM 88210	City, State ZIP:	
Phone:	575.746.8768	Email:	chensley@talonlpe.com

Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Big Sky ABY State 1	Turn Around	Pres. Code	ANALYSIS REQUEST		Preservative Codes
Project Number:	700438.306.01	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush				None: NO DI Water: H ₂ O
Project Location:	Chaves County, NM	Due Date:	2022			Cool: Cool MeOH: Me
Sampler's Name:	Chad Hensley	TAT starts the day received by the lab, if received by 4:30pm				HCL: HC HNO ₃ : HN
PO #:	N/A	Wet Ice:	Yes No			H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:			H ₃ PO ₄ : HP
Samples Received Inact:	Yes No	Thermometer ID:	Yes No			NaHSO ₄ : NABIS
Cooler Custody Seals:	Yes No	Correction Factor:	Yes No			Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	Yes No	Temperature Reading:	Yes No			Zn Acetate+NaOH: Zn
Total Containers:	Corrected Temperature:	5.2				NaOH+Ascorbic Acid: SAPC



Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	BTX	TPH	Sample Comments
S-1	Soil	12/7/2022	13:53	0-05'	Grab	1	X	X	
S-1	Soil	12/7/2022	13:59	2'	Grab	1	X	X	
S-1	Soil	12/7/2022	14:02	3'R	Grab	1	X	X	
S-2	Soil	12/7/2022	14:07	0-05'	Grab	1	X	X	
S-2	Soil	12/7/2022	14:09	2'	Grab	1	X	X	
S-2	Soil	12/7/2022	14:11	3'R	Grab	1	X	X	
S-3	Soil	12/7/2022	14:14	0-05'	Grab	1	X	X	
S-3	Soil	12/7/2022	14:17	2'	Grab	1	X	X	
S-3	Soil	12/7/2022	14:19	3'R	Grab	1	X	X	
S-4	Soil	12/7/2022	14:23	0-0.5'	Grab	1	X	X	

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 SiO₂ Na Sr Ti 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 Ti 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

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

Chain of Custody

Work Order No.:

www.xenco.com Page 2 of 2




Project Manager:	Chad Hensley	Bill to: (if different)	Jeremy Haass
Company Name:	Talon LPE	Company Name:	EOG
Address:	408 W. Texas Ave.	Address:	
City, State ZIP:	Artesia, NM 88210	City, State ZIP:	
Phone:	575.746.8768	Email:	chensley@talonlpe.com

Work Order Comments	
Program: USTR/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

[illegible][illegible]

Circle Method(s) and Metal(s) to be analyzed	200.7 / 6010	200.8 / 6020:
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
Ti	Sn	U
U	Zn	
TCPLP / SPLP 6010:	8RCRA	Sb
As	Ba	Be
B	Cd	Cr
Co	Cu	Pb
Mn	Mo	Ni
Se	Ag	Ti
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 Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno 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 Xeno. A minimum charge of \$85.00 will be applied to each project and a charge of \$3 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated. Eurofins Xeno

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 		12/18/2018			
2 					
3					
4					
5					
6					

Printed Date: 08/25/2020 Row: 2020

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-3613-1
SDG Number: Chaves County NM

Login Number: 3613

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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.	N/A	Refer to Job Narrative for details.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-3613-1
SDG Number: Chaves County NM

Login Number: 3613

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 12/12/22 08:01 AM

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	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Chad Hensley
Talon/LPE
408 W. Texas St.
Artesia, New Mexico 88210

Generated 1/9/2023 2:23:53 PM

JOB DESCRIPTION

BIG SKY ABY STATE #1
SDG NUMBER Lea County


JOB NUMBER

890-3742-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad**Job Notes**

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

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1/9/2023 2:23:53 PM

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

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Laboratory Job ID: 890-3742-1
SDG: Lea County

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Definitions/Glossary

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3742-1
SDG: Lea County

Qualifiers

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3742-1
SDG: Lea County

Job ID: 890-3742-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3742-1

Receipt

The samples were received on 12/30/2022 11:30 AM. 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 5.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-6 (890-3742-1), S-7 (890-3742-2), S-8 (890-3742-3), SW-1 (890-3742-4), SW-2 (890-3742-5), SW-3 (890-3742-6) and SW-4 (890-3742-7).

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 method blank for preparation batch 880-43132 and analytical batch 880-43193 contained Diesel Range Organics (Over C10-C28) and Oil Range Organics (Over C28-C36) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3742-1
SDG: Lea County

Client Sample ID: S-6

Lab Sample ID: 890-3742-1

Date Collected: 12/29/22 11:28

Matrix: Solid

Date Received: 12/30/22 11:30

Sample Depth: 5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		01/05/23 13:12	01/06/23 20:16	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		01/05/23 13:12	01/06/23 20:16	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		01/05/23 13:12	01/06/23 20:16	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		01/05/23 13:12	01/06/23 20:16	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		01/05/23 13:12	01/06/23 20:16	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		01/05/23 13:12	01/06/23 20:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	01/05/23 13:12	01/06/23 20:16	1
1,4-Difluorobenzene (Surr)	98		70 - 130	01/05/23 13:12	01/06/23 20:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			01/09/23 11:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.6	J	49.9	15.0	mg/Kg			01/06/23 11:39	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	<15.0	U	49.9	15.0	mg/Kg		01/04/23 09:27	01/05/23 12:25	1
Diesel Range Organics (Over C10-C28)	18.6	J B	49.9	15.0	mg/Kg		01/04/23 09:27	01/05/23 12:25	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/04/23 09:27	01/05/23 12:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	01/04/23 09:27	01/05/23 12:25	1
o-Terphenyl	136	S1+	70 - 130	01/04/23 09:27	01/05/23 12:25	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	430		5.01	0.396	mg/Kg			01/06/23 11:08	1

Client Sample ID: S-7

Lab Sample ID: 890-3742-2

Date Collected: 12/29/22 11:35

Matrix: Solid

Date Received: 12/30/22 11:30

Sample Depth: 5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		01/06/23 10:37	01/07/23 18:07	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		01/06/23 10:37	01/07/23 18:07	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		01/06/23 10:37	01/07/23 18:07	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		01/06/23 10:37	01/07/23 18:07	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		01/06/23 10:37	01/07/23 18:07	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		01/06/23 10:37	01/07/23 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	01/06/23 10:37	01/07/23 18:07	1

Eurofins Carlsbad

Client Sample Results

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3742-1
SDG: Lea County

Client Sample ID: S-7

Lab Sample ID: 890-3742-2

Date Collected: 12/29/22 11:35

Matrix: Solid

Date Received: 12/30/22 11:30

Sample Depth: 5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106		70 - 130	01/06/23 10:37	01/07/23 18:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			01/09/23 11:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	175		49.8	14.9	mg/Kg			01/06/23 11:39	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	26.8	J	49.8	14.9	mg/Kg		01/04/23 09:27	01/05/23 12:46	1
Diesel Range Organics (Over C10-C28)	117	B	49.8	14.9	mg/Kg		01/04/23 09:27	01/05/23 12:46	1
Oil Range Organics (Over C28-C36)	31.1	J B	49.8	14.9	mg/Kg		01/04/23 09:27	01/05/23 12:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130	01/04/23 09:27	01/05/23 12:46	1
o-Terphenyl	152	S1+	70 - 130	01/04/23 09:27	01/05/23 12:46	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	123		5.01	0.396	mg/Kg			01/06/23 11:14	1

Client Sample ID: S-8

Lab Sample ID: 890-3742-3

Date Collected: 12/29/22 11:44

Matrix: Solid

Date Received: 12/30/22 11:30

Sample Depth: 5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		01/06/23 17:00	01/07/23 17:58	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		01/06/23 17:00	01/07/23 17:58	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		01/06/23 17:00	01/07/23 17:58	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		01/06/23 17:00	01/07/23 17:58	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		01/06/23 17:00	01/07/23 17:58	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		01/06/23 17:00	01/07/23 17:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	01/06/23 17:00	01/07/23 17:58	1
1,4-Difluorobenzene (Surr)	83		70 - 130	01/06/23 17:00	01/07/23 17:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			01/09/23 14:51	1

Eurofins Carlsbad

Client Sample Results

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3742-1
SDG: Lea County

Client Sample ID: S-8

Lab Sample ID: 890-3742-3

Date Collected: 12/29/22 11:44

Matrix: Solid

Date Received: 12/30/22 11:30

Sample Depth: 5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	142		49.9	15.0	mg/Kg			01/06/23 11:39	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	30.6	J	49.9	15.0	mg/Kg		01/04/23 09:27	01/05/23 13:08	1
Diesel Range Organics (Over C10-C28)	88.4	B	49.9	15.0	mg/Kg		01/04/23 09:27	01/05/23 13:08	1
Oil Range Organics (Over C28-C36)	22.8	J B	49.9	15.0	mg/Kg		01/04/23 09:27	01/05/23 13:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				01/04/23 09:27	01/05/23 13:08	1
o-Terphenyl	145	S1+	70 - 130				01/04/23 09:27	01/05/23 13:08	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	479		5.02	0.397	mg/Kg			01/06/23 11:20	1

Client Sample ID: SW-1

Lab Sample ID: 890-3742-4

Date Collected: 12/29/22 11:52

Matrix: Solid

Date Received: 12/30/22 11:30

Sample Depth: 3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000634	J	0.00199	0.000383	mg/Kg		01/04/23 14:24	01/06/23 17:34	1
Toluene	0.00119	J	0.00199	0.000454	mg/Kg		01/04/23 14:24	01/06/23 17:34	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		01/04/23 14:24	01/06/23 17:34	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		01/04/23 14:24	01/06/23 17:34	1
o-Xylene	0.000552	J	0.00199	0.000343	mg/Kg		01/04/23 14:24	01/06/23 17:34	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		01/04/23 14:24	01/06/23 17:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				01/04/23 14:24	01/06/23 17:34	1
1,4-Difluorobenzene (Surr)	107		70 - 130				01/04/23 14:24	01/06/23 17:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00238	J	0.00398	0.00101	mg/Kg			01/09/23 11:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	246		50.0	15.0	mg/Kg			01/06/23 11:39	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	25.4	J	50.0	15.0	mg/Kg		01/04/23 09:27	01/05/23 13:30	1
Diesel Range Organics (Over C10-C28)	166	B	50.0	15.0	mg/Kg		01/04/23 09:27	01/05/23 13:30	1

Eurofins Carlsbad

Client Sample Results

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3742-1
SDG: Lea County

Client Sample ID: SW-1

Lab Sample ID: 890-3742-4

Date Collected: 12/29/22 11:52

Matrix: Solid

Date Received: 12/30/22 11:30

Sample Depth: 3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	54.5	B	50.0	15.0	mg/Kg		01/04/23 09:27	01/05/23 13:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130				01/04/23 09:27	01/05/23 13:30	1
o-Terphenyl	153	S1+	70 - 130				01/04/23 09:27	01/05/23 13:30	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	548		5.00	0.395	mg/Kg			01/06/23 11:27	1

Client Sample ID: SW-2

Lab Sample ID: 890-3742-5

Date Collected: 12/29/22 11:58

Matrix: Solid

Date Received: 12/30/22 11:30

Sample Depth: 3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		01/04/23 14:24	01/06/23 17:55	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		01/04/23 14:24	01/06/23 17:55	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		01/04/23 14:24	01/06/23 17:55	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		01/04/23 14:24	01/06/23 17:55	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		01/04/23 14:24	01/06/23 17:55	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		01/04/23 14:24	01/06/23 17:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				01/04/23 14:24	01/06/23 17:55	1
1,4-Difluorobenzene (Surr)	107		70 - 130				01/04/23 14:24	01/06/23 17:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			01/09/23 11:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	33.3	J	50.0	15.0	mg/Kg			01/06/23 11:39	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	<15.0	U	50.0	15.0	mg/Kg		01/04/23 09:27	01/05/23 13:52	1
Diesel Range Organics (Over C10-C28)	17.7	J B	50.0	15.0	mg/Kg		01/04/23 09:27	01/05/23 13:52	1
Oil Range Organics (Over C28-C36)	15.6	J B	50.0	15.0	mg/Kg		01/04/23 09:27	01/05/23 13:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130				01/04/23 09:27	01/05/23 13:52	1
o-Terphenyl	162	S1+	70 - 130				01/04/23 09:27	01/05/23 13:52	1

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Client Sample Results

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3742-1
SDG: Lea County

Client Sample ID: SW-2

Lab Sample ID: 890-3742-5

Date Collected: 12/29/22 11:58

Matrix: Solid

Date Received: 12/30/22 11:30

Sample Depth: 3

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	423		4.99	0.394	mg/Kg			01/06/23 11:33	1

Client Sample ID: SW-3

Lab Sample ID: 890-3742-6

Date Collected: 12/29/22 11:13

Matrix: Solid

Date Received: 12/30/22 11:30

Sample Depth: 3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		01/04/23 14:24	01/06/23 18:15	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		01/04/23 14:24	01/06/23 18:15	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		01/04/23 14:24	01/06/23 18:15	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		01/04/23 14:24	01/06/23 18:15	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		01/04/23 14:24	01/06/23 18:15	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		01/04/23 14:24	01/06/23 18:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				01/04/23 14:24	01/06/23 18:15	1
1,4-Difluorobenzene (Surr)	105		70 - 130				01/04/23 14:24	01/06/23 18:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			01/09/23 11:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	181		49.9	15.0	mg/Kg			01/06/23 11:39	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	38.3	J	49.9	15.0	mg/Kg		01/04/23 09:27	01/05/23 14:14	1
Diesel Range Organics (Over C10-C28)	115	B	49.9	15.0	mg/Kg		01/04/23 09:27	01/05/23 14:14	1
Oil Range Organics (Over C28-C36)	28.1	J B	49.9	15.0	mg/Kg		01/04/23 09:27	01/05/23 14:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				01/04/23 09:27	01/05/23 14:14	1
o-Terphenyl	134	S1+	70 - 130				01/04/23 09:27	01/05/23 14:14	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	484		5.00	0.395	mg/Kg			01/06/23 11:39	1

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Client Sample Results

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3742-1
SDG: Lea County

Client Sample ID: SW-4

Lab Sample ID: 890-3742-7

Date Collected: 12/29/22 11:01

Matrix: Solid

Date Received: 12/30/22 11:30

Sample Depth: 3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		01/04/23 14:24	01/06/23 18:36	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		01/04/23 14:24	01/06/23 18:36	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		01/04/23 14:24	01/06/23 18:36	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		01/04/23 14:24	01/06/23 18:36	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		01/04/23 14:24	01/06/23 18:36	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		01/04/23 14:24	01/06/23 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	01/04/23 14:24	01/06/23 18:36	1
1,4-Difluorobenzene (Surr)	106		70 - 130	01/04/23 14:24	01/06/23 18:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00402	0.00102	mg/Kg			01/09/23 11:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	62.5		50.0	15.0	mg/Kg			01/06/23 11:39	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	<15.0	U	50.0	15.0	mg/Kg		01/04/23 09:27	01/05/23 14:35	1
Diesel Range Organics (Over C10-C28)	62.5	B	50.0	15.0	mg/Kg		01/04/23 09:27	01/05/23 14:35	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/04/23 09:27	01/05/23 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130	01/04/23 09:27	01/05/23 14:35	1
o-Terphenyl	149	S1+	70 - 130	01/04/23 09:27	01/05/23 14:35	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	259		5.04	0.398	mg/Kg			01/06/23 11:45	1

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Surrogate Summary

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3742-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
		(70-130)	(70-130)				
890-3742-1	S-6	122	98				
890-3742-2	S-7	111	106				
890-3742-3	S-8	116	83				
890-3742-4	SW-1	100	107				
890-3742-5	SW-2	106	107				
890-3742-6	SW-3	118	105				
890-3742-7	SW-4	110	106				
LCS 880-43171/1-A	Lab Control Sample	104	106				
LCS 880-43267/1-A	Lab Control Sample	95	95				
LCS 880-43289/1-A	Lab Control Sample	119	97				
LCS 880-43348/1-A	Lab Control Sample	102	105				
LCSD 880-43171/2-A	Lab Control Sample Dup	102	107				
LCSD 880-43267/2-A	Lab Control Sample Dup	97	96				
LCSD 880-43289/2-A	Lab Control Sample Dup	112	96				
LCSD 880-43348/2-A	Lab Control Sample Dup	102	107				
MB 880-43171/5-A	Method Blank	99	105				
MB 880-43267/5-A	Method Blank	102	87				
MB 880-43280/5-A	Method Blank	99	102				
MB 880-43289/5-A	Method Blank	79	90				
MB 880-43346/5-A	Method Blank	76	86				
MB 880-43348/5-A	Method Blank	100	106				
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)					
Lab Sample ID	Client Sample ID	1CO1	OTPH1				
		(70-130)	(70-130)				
890-3742-1	S-6	117	136 S1+				
890-3742-2	S-7	132 S1+	152 S1+				
890-3742-3	S-8	127	145 S1+				
890-3742-4	SW-1	143 S1+	153 S1+				
890-3742-5	SW-2	143 S1+	162 S1+				
890-3742-6	SW-3	121	134 S1+				
890-3742-7	SW-4	132 S1+	149 S1+				
LCS 880-43132/2-A	Lab Control Sample	106	112				
LCSD 880-43132/3-A	Lab Control Sample Dup	95	104				
MB 880-43132/1-A	Method Blank	116	141 S1+				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

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QC Sample Results

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3742-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43171/5-A

Matrix: Solid

Analysis Batch: 43326

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43171

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/04/23 14:24	01/06/23 11:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	01/04/23 14:24	01/06/23 11:51	1
1,4-Difluorobenzene (Surr)	105		70 - 130	01/04/23 14:24	01/06/23 11:51	1

Lab Sample ID: LCS 880-43171/1-A

Matrix: Solid

Analysis Batch: 43326

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43171

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07559		mg/Kg		76	70 - 130
Toluene	0.100	0.07256		mg/Kg		73	70 - 130
Ethylbenzene	0.100	0.07155		mg/Kg		72	70 - 130
m-Xylene & p-Xylene	0.200	0.1466		mg/Kg		73	70 - 130
o-Xylene	0.100	0.07250		mg/Kg		73	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-43171/2-A

Matrix: Solid

Analysis Batch: 43326

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43171

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07746		mg/Kg		77	70 - 130	2	35
Toluene	0.100	0.07295		mg/Kg		73	70 - 130	1	35
Ethylbenzene	0.100	0.07137		mg/Kg		71	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1500		mg/Kg		75	70 - 130	2	35
o-Xylene	0.100	0.07359		mg/Kg		74	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: MB 880-43267/5-A

Matrix: Solid

Analysis Batch: 43325

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43267

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/05/23 13:12	01/06/23 10:51	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		01/05/23 13:12	01/06/23 10:51	1

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QC Sample Results

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3742-1
SDG: Lea County

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

Lab Sample ID: MB 880-43267/5-A

Matrix: Solid

Analysis Batch: 43325

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43267

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/05/23 13:12	01/06/23 10:51	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/05/23 13:12	01/06/23 10:51	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/05/23 13:12	01/06/23 10:51	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/05/23 13:12	01/06/23 10:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	01/05/23 13:12	01/06/23 10:51	1
1,4-Difluorobenzene (Surr)	87		70 - 130	01/05/23 13:12	01/06/23 10:51	1

Lab Sample ID: LCS 880-43267/1-A

Matrix: Solid

Analysis Batch: 43325

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43267

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1011		mg/Kg		101	70 - 130
Toluene	0.100	0.09684		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.08911		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.200	0.1927		mg/Kg		96	70 - 130
o-Xylene	0.100	0.09524		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-43267/2-A

Matrix: Solid

Analysis Batch: 43325

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43267

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1062		mg/Kg		106	70 - 130	5	35
Toluene	0.100	0.1022		mg/Kg		102	70 - 130	5	35
Ethylbenzene	0.100	0.09183		mg/Kg		92	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1960		mg/Kg		98	70 - 130	2	35
o-Xylene	0.100	0.09738		mg/Kg		97	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: MB 880-43280/5-A

Matrix: Solid

Analysis Batch: 43326

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43280

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/05/23 14:21	01/06/23 23:47	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		01/05/23 14:21	01/06/23 23:47	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/05/23 14:21	01/06/23 23:47	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/05/23 14:21	01/06/23 23:47	1

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QC Sample Results

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3742-1
SDG: Lea County

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

Lab Sample ID: MB 880-43280/5-A

Matrix: Solid

Analysis Batch: 43326

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43280

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/05/23 14:21	01/06/23 23:47	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/05/23 14:21	01/06/23 23:47	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				01/05/23 14:21	01/06/23 23:47	1
1,4-Difluorobenzene (Surr)	102		70 - 130				01/05/23 14:21	01/06/23 23:47	1

Lab Sample ID: MB 880-43289/5-A

Matrix: Solid

Analysis Batch: 43378

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43289

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/05/23 14:43	01/07/23 12:29	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		01/05/23 14:43	01/07/23 12:29	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/05/23 14:43	01/07/23 12:29	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/05/23 14:43	01/07/23 12:29	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/05/23 14:43	01/07/23 12:29	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/05/23 14:43	01/07/23 12:29	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130				01/05/23 14:43	01/07/23 12:29	1
1,4-Difluorobenzene (Surr)	90		70 - 130				01/05/23 14:43	01/07/23 12:29	1

Lab Sample ID: LCS 880-43289/1-A

Matrix: Solid

Analysis Batch: 43378

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43289

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08469		mg/Kg		85	70 - 130
Toluene	0.100	0.09415		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.09447		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	0.200	0.2129		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1202		mg/Kg		120	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	119		70 - 130				
1,4-Difluorobenzene (Surr)	97		70 - 130				

Lab Sample ID: LCSD 880-43289/2-A

Matrix: Solid

Analysis Batch: 43378

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43289

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09067		mg/Kg		91	70 - 130	7	35
Toluene	0.100	0.09776		mg/Kg		98	70 - 130	4	35
Ethylbenzene	0.100	0.09508		mg/Kg		95	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2113		mg/Kg		106	70 - 130	1	35
o-Xylene	0.100	0.1183		mg/Kg		118	70 - 130	2	35

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QC Sample Results

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3742-1
SDG: Lea County

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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: MB 880-43346/5-A

Matrix: Solid

Analysis Batch: 43378

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43346

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/06/23 09:37	01/07/23 01:53	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		01/06/23 09:37	01/07/23 01:53	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/06/23 09:37	01/07/23 01:53	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/06/23 09:37	01/07/23 01:53	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/06/23 09:37	01/07/23 01:53	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/06/23 09:37	01/07/23 01:53	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	76		70 - 130	01/06/23 09:37	01/07/23 01:53	1			
1,4-Difluorobenzene (Surr)	86		70 - 130	01/06/23 09:37	01/07/23 01:53	1			

Lab Sample ID: MB 880-43348/5-A

Matrix: Solid

Analysis Batch: 43326

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43348

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/06/23 10:37	01/07/23 11:22	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		01/06/23 10:37	01/07/23 11:22	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/06/23 10:37	01/07/23 11:22	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/06/23 10:37	01/07/23 11:22	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/06/23 10:37	01/07/23 11:22	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/06/23 10:37	01/07/23 11:22	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	100		70 - 130	01/06/23 10:37	01/07/23 11:22	1			
1,4-Difluorobenzene (Surr)	106		70 - 130	01/06/23 10:37	01/07/23 11:22	1			

Lab Sample ID: LCS 880-43348/1-A

Matrix: Solid

Analysis Batch: 43326

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43348

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.09545		mg/Kg		95	70 - 130		
Toluene	0.100	0.09165		mg/Kg		92	70 - 130		
Ethylbenzene	0.100	0.09102		mg/Kg		91	70 - 130		
m-Xylene & p-Xylene	0.200	0.1886		mg/Kg		94	70 - 130		
o-Xylene	0.100	0.09195		mg/Kg		92	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

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QC Sample Results

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3742-1
SDG: Lea County

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

Lab Sample ID: LCSD 880-43348/2-A

Matrix: Solid

Analysis Batch: 43326

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43348

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09847		mg/Kg		98	70 - 130	3	35
Toluene	0.100	0.09286		mg/Kg		93	70 - 130	1	35
Ethylbenzene	0.100	0.09006		mg/Kg		90	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1870		mg/Kg		94	70 - 130	1	35
o-Xylene	0.100	0.09077		mg/Kg		91	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

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

Lab Sample ID: MB 880-43132/1-A

Matrix: Solid

Analysis Batch: 43193

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43132

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		01/04/23 09:27	01/05/23 08:23	1
Diesel Range Organics (Over C10-C28)	20.66	J	50.0	15.0	mg/Kg		01/04/23 09:27	01/05/23 08:23	1
Oil Range Organics (Over C28-C36)	15.19	J	50.0	15.0	mg/Kg		01/04/23 09:27	01/05/23 08:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	01/04/23 09:27	01/05/23 08:23	1
o-Terphenyl	141	S1+	70 - 130	01/04/23 09:27	01/05/23 08:23	1

Lab Sample ID: LCS 880-43132/2-A

Matrix: Solid

Analysis Batch: 43193

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43132

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	973.0		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1092		mg/Kg		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: LCSD 880-43132/3-A

Matrix: Solid

Analysis Batch: 43193

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43132

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1093		mg/Kg		109	70 - 130	12	20

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QC Sample Results

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3742-1
SDG: Lea County

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

Lab Sample ID: LCSD 880-43132/3-A

Matrix: Solid

Analysis Batch: 43193

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43132

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)	1000	953.9		mg/Kg		95	70 - 130	14	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	95		70 - 130						
o-Terphenyl	104		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43077/1-A

Matrix: Solid

Analysis Batch: 43285

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			01/06/23 08:28	1

Lab Sample ID: LCS 880-43077/2-A

Matrix: Solid

Analysis Batch: 43285

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	259.2		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-43077/3-A

Matrix: Solid

Analysis Batch: 43285

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	257.6		mg/Kg		103	90 - 110	1	20

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QC Association Summary

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3742-1
SDG: Lea County

GC VOA

Prep Batch: 43171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3742-4	SW-1	Total/NA	Solid	5035	
890-3742-5	SW-2	Total/NA	Solid	5035	
890-3742-6	SW-3	Total/NA	Solid	5035	
890-3742-7	SW-4	Total/NA	Solid	5035	
MB 880-43171/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43171/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43171/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 43267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3742-1	S-6	Total/NA	Solid	5035	
MB 880-43267/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43267/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43267/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 43280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-43280/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 43289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3742-3	S-8	Total/NA	Solid	5035	
MB 880-43289/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43289/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43289/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 43325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3742-1	S-6	Total/NA	Solid	8021B	43267
MB 880-43267/5-A	Method Blank	Total/NA	Solid	8021B	43267
LCS 880-43267/1-A	Lab Control Sample	Total/NA	Solid	8021B	43267
LCSD 880-43267/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43267

Analysis Batch: 43326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3742-2	S-7	Total/NA	Solid	8021B	43348
890-3742-4	SW-1	Total/NA	Solid	8021B	43171
890-3742-5	SW-2	Total/NA	Solid	8021B	43171
890-3742-6	SW-3	Total/NA	Solid	8021B	43171
890-3742-7	SW-4	Total/NA	Solid	8021B	43171
MB 880-43171/5-A	Method Blank	Total/NA	Solid	8021B	43171
MB 880-43280/5-A	Method Blank	Total/NA	Solid	8021B	43280
MB 880-43348/5-A	Method Blank	Total/NA	Solid	8021B	43348
LCS 880-43171/1-A	Lab Control Sample	Total/NA	Solid	8021B	43171
LCS 880-43348/1-A	Lab Control Sample	Total/NA	Solid	8021B	43348
LCSD 880-43171/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43171
LCSD 880-43348/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43348

Prep Batch: 43346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-43346/5-A	Method Blank	Total/NA	Solid	5035	

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QC Association Summary

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3742-1
SDG: Lea County

GC VOA

Prep Batch: 43348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3742-2	S-7	Total/NA	Solid	5035	
MB 880-43348/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43348/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43348/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 43378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3742-3	S-8	Total/NA	Solid	8021B	43289
MB 880-43289/5-A	Method Blank	Total/NA	Solid	8021B	43289
MB 880-43346/5-A	Method Blank	Total/NA	Solid	8021B	43346
LCS 880-43289/1-A	Lab Control Sample	Total/NA	Solid	8021B	43289
LCSD 880-43289/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43289

Analysis Batch: 43528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3742-1	S-6	Total/NA	Solid	Total BTEX	
890-3742-2	S-7	Total/NA	Solid	Total BTEX	
890-3742-3	S-8	Total/NA	Solid	Total BTEX	
890-3742-4	SW-1	Total/NA	Solid	Total BTEX	
890-3742-5	SW-2	Total/NA	Solid	Total BTEX	
890-3742-6	SW-3	Total/NA	Solid	Total BTEX	
890-3742-7	SW-4	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 43132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3742-1	S-6	Total/NA	Solid	8015NM Prep	
890-3742-2	S-7	Total/NA	Solid	8015NM Prep	
890-3742-3	S-8	Total/NA	Solid	8015NM Prep	
890-3742-4	SW-1	Total/NA	Solid	8015NM Prep	
890-3742-5	SW-2	Total/NA	Solid	8015NM Prep	
890-3742-6	SW-3	Total/NA	Solid	8015NM Prep	
890-3742-7	SW-4	Total/NA	Solid	8015NM Prep	
MB 880-43132/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43132/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43132/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3742-1	S-6	Total/NA	Solid	8015B NM	43132
890-3742-2	S-7	Total/NA	Solid	8015B NM	43132
890-3742-3	S-8	Total/NA	Solid	8015B NM	43132
890-3742-4	SW-1	Total/NA	Solid	8015B NM	43132
890-3742-5	SW-2	Total/NA	Solid	8015B NM	43132
890-3742-6	SW-3	Total/NA	Solid	8015B NM	43132
890-3742-7	SW-4	Total/NA	Solid	8015B NM	43132
MB 880-43132/1-A	Method Blank	Total/NA	Solid	8015B NM	43132
LCS 880-43132/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43132
LCSD 880-43132/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43132

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QC Association Summary

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3742-1
SDG: Lea County

GC Semi VOA

Analysis Batch: 43366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3742-1	S-6	Total/NA	Solid	8015 NM	
890-3742-2	S-7	Total/NA	Solid	8015 NM	
890-3742-3	S-8	Total/NA	Solid	8015 NM	
890-3742-4	SW-1	Total/NA	Solid	8015 NM	
890-3742-5	SW-2	Total/NA	Solid	8015 NM	
890-3742-6	SW-3	Total/NA	Solid	8015 NM	
890-3742-7	SW-4	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 43077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3742-1	S-6	Soluble	Solid	DI Leach	
890-3742-2	S-7	Soluble	Solid	DI Leach	
890-3742-3	S-8	Soluble	Solid	DI Leach	
890-3742-4	SW-1	Soluble	Solid	DI Leach	
890-3742-5	SW-2	Soluble	Solid	DI Leach	
890-3742-6	SW-3	Soluble	Solid	DI Leach	
890-3742-7	SW-4	Soluble	Solid	DI Leach	
MB 880-43077/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43077/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43077/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 43285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3742-1	S-6	Soluble	Solid	300.0	43077
890-3742-2	S-7	Soluble	Solid	300.0	43077
890-3742-3	S-8	Soluble	Solid	300.0	43077
890-3742-4	SW-1	Soluble	Solid	300.0	43077
890-3742-5	SW-2	Soluble	Solid	300.0	43077
890-3742-6	SW-3	Soluble	Solid	300.0	43077
890-3742-7	SW-4	Soluble	Solid	300.0	43077
MB 880-43077/1-A	Method Blank	Soluble	Solid	300.0	43077
LCS 880-43077/2-A	Lab Control Sample	Soluble	Solid	300.0	43077
LCSD 880-43077/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43077

Lab Chronicle

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3742-1
SDG: Lea County

Client Sample ID: S-6

Lab Sample ID: 890-3742-1

Date Collected: 12/29/22 11:28

Matrix: Solid

Date Received: 12/30/22 11:30

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	43267	01/05/23 13:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43325	01/06/23 20:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43528	01/09/23 11:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43366	01/06/23 11:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43132	01/04/23 09:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43193	01/05/23 12:25	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	43077	01/03/23 12:07	KS	EET MID
Soluble	Analysis	300.0		1			43285	01/06/23 11:08	CH	EET MID

Client Sample ID: S-7

Lab Sample ID: 890-3742-2

Date Collected: 12/29/22 11:35

Matrix: Solid

Date Received: 12/30/22 11:30

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	43348	01/06/23 10:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43326	01/07/23 18:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43528	01/09/23 11:51	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43366	01/06/23 11:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	43132	01/04/23 09:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43193	01/05/23 12:46	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	43077	01/03/23 12:07	KS	EET MID
Soluble	Analysis	300.0		1			43285	01/06/23 11:14	CH	EET MID

Client Sample ID: S-8

Lab Sample ID: 890-3742-3

Date Collected: 12/29/22 11:44

Matrix: Solid

Date Received: 12/30/22 11:30

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	43289	01/06/23 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43378	01/07/23 17:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43528	01/09/23 14:51	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43366	01/06/23 11:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43132	01/04/23 09:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43193	01/05/23 13:08	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	43077	01/03/23 12:07	KS	EET MID
Soluble	Analysis	300.0		1			43285	01/06/23 11:20	CH	EET MID

Client Sample ID: SW-1

Lab Sample ID: 890-3742-4

Date Collected: 12/29/22 11:52

Matrix: Solid

Date Received: 12/30/22 11:30

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	43171	01/04/23 14:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43326	01/06/23 17:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43528	01/09/23 11:51	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3742-1
SDG: Lea County

Client Sample ID: SW-1

Lab Sample ID: 890-3742-4

Date Collected: 12/29/22 11:52

Matrix: Solid

Date Received: 12/30/22 11:30

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			43366	01/06/23 11:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43132	01/04/23 09:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43193	01/05/23 13:30	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	43077	01/03/23 12:07	KS	EET MID
Soluble	Analysis	300.0		1			43285	01/06/23 11:27	CH	EET MID

Client Sample ID: SW-2

Lab Sample ID: 890-3742-5

Date Collected: 12/29/22 11:58

Matrix: Solid

Date Received: 12/30/22 11:30

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	43171	01/04/23 14:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43326	01/06/23 17:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43528	01/09/23 11:51	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43366	01/06/23 11:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43132	01/04/23 09:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43193	01/05/23 13:52	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	43077	01/03/23 12:07	KS	EET MID
Soluble	Analysis	300.0		1			43285	01/06/23 11:33	CH	EET MID

Client Sample ID: SW-3

Lab Sample ID: 890-3742-6

Date Collected: 12/29/22 11:13

Matrix: Solid

Date Received: 12/30/22 11:30

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	43171	01/04/23 14:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43326	01/06/23 18:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43528	01/09/23 11:51	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43366	01/06/23 11:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43132	01/04/23 09:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43193	01/05/23 14:14	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	43077	01/03/23 12:07	KS	EET MID
Soluble	Analysis	300.0		1			43285	01/06/23 11:39	CH	EET MID

Client Sample ID: SW-4

Lab Sample ID: 890-3742-7

Date Collected: 12/29/22 11:01

Matrix: Solid

Date Received: 12/30/22 11:30

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	43171	01/04/23 14:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43326	01/06/23 18:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43528	01/09/23 11:51	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43366	01/06/23 11:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43132	01/04/23 09:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43193	01/05/23 14:35	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3742-1
SDG: Lea County

Client Sample ID: SW-4
Date Collected: 12/29/22 11:01
Date Received: 12/30/22 11:30

Lab Sample ID: 890-3742-7
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	43077	01/03/23 12:07	KS	EET MID
Soluble	Analysis	300.0		1			43285	01/06/23 11:45	CH	EET MID

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

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Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3742-1
SDG: Lea County

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	T104704400-22-25	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: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3742-1
SDG: Lea County

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: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3742-1
SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3742-1	S-6	Solid	12/29/22 11:28	12/30/22 11:30	5
890-3742-2	S-7	Solid	12/29/22 11:35	12/30/22 11:30	5
890-3742-3	S-8	Solid	12/29/22 11:44	12/30/22 11:30	5
890-3742-4	SW-1	Solid	12/29/22 11:52	12/30/22 11:30	3
890-3742-5	SW-2	Solid	12/29/22 11:58	12/30/22 11:30	3
890-3742-6	SW-3	Solid	12/29/22 11:13	12/30/22 11:30	3
890-3742-7	SW-4	Solid	12/29/22 11:01	12/30/22 11:30	3



Environment Testing

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


Chain of Custody

Work Order No:

www.xenco.com Page 1 of 1

Project Manager:	Chad Hensley		Bill to: (if different)	ECC
Company Name:	Telco		Company Name:	Jeremy
Address:	408 W. TEXAS AVE.		Address:	
City, State ZIP:	Artesia TX 85214		City, State ZIP:	
Phone:	575-246-8768	Email:		

Work Order Comments				
Program:	UST/PST <input type="checkbox"/>	PRP <input type="checkbox"/>	Brownfields <input type="checkbox"/>	RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:				
Reporting:	Level II <input type="checkbox"/>	Level III <input type="checkbox"/>	PST/UST <input type="checkbox"/>	TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/>	ADAPT <input type="checkbox"/>	Other: _____	

Project Name:	Bio Sky A31 Stat #1	Turn Around	
Project Number:		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	
Project location:	VEA County	Due Date:	
Sampler's Name:	David Hensley	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			
SAMPLE RECEIPT			
Samples Received In tact:	Yes No	Thermometer ID:	Yes No
Cooler Custody Seals:	Yes No N/A	Correction Factor:	Wet Ice: Yes No
Sample Custody Seals:	Yes No N/A	Temperature Reading:	
Total Containers:		Corrected Temperature:	
		Parameters	
h/orides			
TEX			
PH			
ANALYSIS REQUEST			
890-3742 Chain of Custody			
			
Preservative Codes			
None: NO	DI Water: H ₂ O	Cool: Cool	MeOH: Me
HCL: HC	HNO ₃ : HN	H ₂ SO ₄ : H ₂	NaOH: Na
H ₃ PO ₄ : HP	NH ₄ SO ₄ : NABIS	Na ₂ S ₂ O ₃ : NaSO ₃	Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC			

[illegible]

Total 2007 / 6010	2008 / 6020:	Circle Method(s) and Metal(s) to be analyzed
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	
TCPL/SPLP 6010 : 8RCRA 5b 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 sample constitutes a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno 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 any losses are due to circumstances beyond the control of Eurofins Xeno. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>Amr</i>	<i>Joe W</i>	12.30.22.135	2		
3			4		
5			6		



Environment Testing
Xenco

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

Chain of Custody

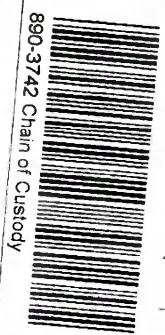
Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Chad Hensley	Bill to: (if different)	ETC
Company Name:	408 W. TEXAS AVE.	Company Name:	Jeremy
Address:	Artesia TX 78814	Address:	
City, State ZIP:	575-246-8768	City, State ZIP:	
Phone:		Email:	

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____

Project Name:	BIO SKY A31 SKY #1	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pest. Code		ANALYSIS REQUEST		Preservative Codes
Project Number:		Due Date:						None: NO
Project Location:	1EA county	TAT starts the day received by the lab if received by 4:30pm						Cool: Cool
Sampler's Name:	Chad Hensley	Thermometer ID:	1-11111111					HCL: HC
PO #:		Wet Ice:						H ₂ SO ₄ : H ₂
SAMPLE RECEIPT	Temp Blank:	Yes	No	Yes	No			H ₃ PO ₄ : HP
Samples Received Intact:	Yes	No	Thermometer ID:	1-11111111				NaHSO ₄ : NABIS
Cooler Custody Seals:	Yes	No	Correction Factor:	-0.2				Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	Yes	No	Temperature Reading:	6.0				Zn Acetate+NaOH: Zn
Total Containers:	Yes	No	Corrected Temperature:	5.8				NaOH+Ascorbic Acid: SARC
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont		Sample Comments
S-6		12/8/22	10:28	5'	G	1		
S-7			10:35	5'	G	1		
S-8			10:44	5'	G	1		
SW-1			10:52	3'	G	1		
SW-2			10:58	3'	G	1		
SW-3			11:03	3'	G	1		
SW-4			11:14	3'	G	1		



890-3742 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 Ti 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 Ti 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
		12:30:22 11/30			

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Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
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El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page _____ of _____

Project Manager:	Joe Gable	Bill to: (if different)	Kalei Jennings
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	601 N Marientfeld St Suite 400	Address:	601 N Marientfeld St Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	903-386-8073	Email:	kjennings@ensolum.com, jgable@ensolum.com

Program: <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project: _____	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____	

Project Name:	Jacinto Fed Corn 40H	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	
Project Number:	03D2024134	Due Date:			
Project Location:	32.181667, -103.421389	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Kase Parker				
PO #:					
SAMPLE RECEIPT	Temp Blank: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Wet Ice: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Samples Received Intact:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Thermometer ID: TW0007			
Cooler Custody Seals:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Correction Factor: -0.8			
Sample Custody Seals:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Temperature Reading: 1.2			
Total Containers:		Corrected Temperature: 1.0			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	ANALYSIS REQUEST										Preservative Codes	
							Parameters										None: NO	DI Water: H ₂ O
							CHLORIDES (EPA: 300.0)										Cool: Cool	MeOH: Me
							TPH (8015)										HCL: HC	HNO ₃ : HN
							BTEX (8021)										H ₂ SO ₄ : H ₂	NaOH: Na
SS01	S	12/28/2022	1215	0.5'	Grab/	1											H ₃ PO ₄ : HP	
SS02	S	12/28/2022	1220	0.5'	Grab/	1											NaHSO ₄ : NABIS	
SS03	S	12/28/2022	1225	0.5'	Grab/	1											Na ₂ S ₂ O ₃ : NaSO ₃	
SS04	S	12/28/2022	1230	0.5'	Grab/	1											Zn Acetate+NaOH: Zn	
																	NaOH+Ascorbic Acid: SAPC	



890-3741 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 Ti 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 Ti U		Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	12/28/2022 9:00am	<i>[Signature]</i>	<i>[Signature]</i>	12-30-22 9:30

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1/9/2023

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-3742-1

SDG Number: Lea County

Login Number: 3742

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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: Talon/LPE

Job Number: 890-3742-1

SDG Number: Lea County

Login Number: 3742

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 01/03/23 09:51 AM

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	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Chad Hensley
Talon/LPE
408 W. Texas St.
Artesia, New Mexico 88210

Generated 1/19/2023 1:58:31 PM

JOB DESCRIPTION

BIG SKY ABY STATE #1


JOB NUMBER

890-3860-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad**Job Notes**

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

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1/19/2023 1:58:31 PM

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

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Laboratory Job ID: 890-3860-1

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Definitions/Glossary

Client: Talon/LPE

Job ID: 890-3860-1

Project/Site: BIG SKY ABY STATE #1

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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

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Case Narrative

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3860-1

Job ID: 890-3860-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-3860-1****Receipt**

The samples were received on 1/13/2023 2:47 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 were received and analyzed from an unpreserved bulk soil jar: S-7 (890-3860-1), S-8 (890-3860-2), SW-1 (890-3860-3) and SW-3 (890-3860-4).

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: Surrogate recovery for the following sample was outside control limits: (LCS 880-44154/2-A). Evidence of matrix interferences is not obvious.

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: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3860-1

Client Sample ID: S-7

Lab Sample ID: 890-3860-1

Date Collected: 01/12/23 10:01

Matrix: Solid

Date Received: 01/13/23 14:47

Sample Depth: 6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		01/18/23 08:29	01/18/23 12:03	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		01/18/23 08:29	01/18/23 12:03	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		01/18/23 08:29	01/18/23 12:03	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		01/18/23 08:29	01/18/23 12:03	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		01/18/23 08:29	01/18/23 12:03	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		01/18/23 08:29	01/18/23 12:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	01/18/23 08:29	01/18/23 12:03	1
1,4-Difluorobenzene (Surr)	97		70 - 130	01/18/23 08:29	01/18/23 12:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00402	0.00102	mg/Kg			01/18/23 14:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	46.9	J	49.9	15.0	mg/Kg			01/19/23 12:55	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	19.9	J	49.9	15.0	mg/Kg		01/17/23 13:25	01/18/23 22:24	1
Diesel Range Organics (Over C10-C28)	27.0	J	49.9	15.0	mg/Kg		01/17/23 13:25	01/18/23 22:24	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/17/23 13:25	01/18/23 22:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	01/17/23 13:25	01/18/23 22:24	1
o-Terphenyl	103		70 - 130	01/17/23 13:25	01/18/23 22:24	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	172		5.05	0.399	mg/Kg			01/17/23 14:54	1

Client Sample ID: S-8

Lab Sample ID: 890-3860-2

Date Collected: 01/12/23 10:09

Matrix: Solid

Date Received: 01/13/23 14:47

Sample Depth: 6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389	mg/Kg		01/18/23 08:29	01/18/23 12:23	1
Toluene	<0.000461	U	0.00202	0.000461	mg/Kg		01/18/23 08:29	01/18/23 12:23	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg		01/18/23 08:29	01/18/23 12:23	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg		01/18/23 08:29	01/18/23 12:23	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		01/18/23 08:29	01/18/23 12:23	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg		01/18/23 08:29	01/18/23 12:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	01/18/23 08:29	01/18/23 12:23	1

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Client Sample Results

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3860-1

Client Sample ID: S-8

Lab Sample ID: 890-3860-2

Date Collected: 01/12/23 10:09

Matrix: Solid

Date Received: 01/13/23 14:47

Sample Depth: 6

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	95		70 - 130	01/18/23 08:29	01/18/23 12:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00404	0.00102	mg/Kg			01/18/23 14:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	35.8	J	49.8	14.9	mg/Kg			01/19/23 12:55	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	<14.9	U	49.8	14.9	mg/Kg		01/17/23 13:25	01/18/23 23:30	1
Diesel Range Organics (Over C10-C28)	35.8	J	49.8	14.9	mg/Kg		01/17/23 13:25	01/18/23 23:30	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		01/17/23 13:25	01/18/23 23:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				01/17/23 13:25	01/18/23 23:30	1
o-Terphenyl	100		70 - 130				01/17/23 13:25	01/18/23 23:30	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	812		25.0	1.97	mg/Kg			01/17/23 15:00	5

Client Sample ID: SW-1

Lab Sample ID: 890-3860-3

Date Collected: 01/12/23 10:13

Matrix: Solid

Date Received: 01/13/23 14:47

Sample Depth: 3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		01/18/23 08:29	01/18/23 12:44	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		01/18/23 08:29	01/18/23 12:44	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		01/18/23 08:29	01/18/23 12:44	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		01/18/23 08:29	01/18/23 12:44	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		01/18/23 08:29	01/18/23 12:44	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		01/18/23 08:29	01/18/23 12:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	01/18/23 08:29	01/18/23 12:44	1
1,4-Difluorobenzene (Surr)	84		70 - 130	01/18/23 08:29	01/18/23 12:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00396	0.00100	mg/Kg			01/18/23 14:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	113		49.9	15.0	mg/Kg			01/19/23 12:55	1

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Client Sample Results

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3860-1

Client Sample ID: SW-1

Lab Sample ID: 890-3860-3

Date Collected: 01/12/23 10:13

Matrix: Solid

Date Received: 01/13/23 14:47

Sample Depth: 3

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	<15.0	U	49.9	15.0	mg/Kg		01/17/23 13:25	01/18/23 23:51	1
Diesel Range Organics (Over C10-C28)	113		49.9	15.0	mg/Kg		01/17/23 13:25	01/18/23 23:51	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/17/23 13:25	01/18/23 23:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				01/17/23 13:25	01/18/23 23:51	1
o-Terphenyl	88		70 - 130				01/17/23 13:25	01/18/23 23:51	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	657		5.01	0.396	mg/Kg			01/17/23 15:19	1

Client Sample ID: SW-3

Lab Sample ID: 890-3860-4

Date Collected: 01/12/23 10:25

Matrix: Solid

Date Received: 01/13/23 14:47

Sample Depth: 3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		01/18/23 08:29	01/18/23 13:04	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		01/18/23 08:29	01/18/23 13:04	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		01/18/23 08:29	01/18/23 13:04	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		01/18/23 08:29	01/18/23 13:04	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		01/18/23 08:29	01/18/23 13:04	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		01/18/23 08:29	01/18/23 13:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				01/18/23 08:29	01/18/23 13:04	1
1,4-Difluorobenzene (Surr)	74		70 - 130				01/18/23 08:29	01/18/23 13:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			01/18/23 14:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	103		49.8	14.9	mg/Kg			01/19/23 12:55	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	<14.9	U	49.8	14.9	mg/Kg		01/17/23 13:25	01/19/23 00:13	1
Diesel Range Organics (Over C10-C28)	103		49.8	14.9	mg/Kg		01/17/23 13:25	01/19/23 00:13	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		01/17/23 13:25	01/19/23 00:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				01/17/23 13:25	01/19/23 00:13	1
o-Terphenyl	93		70 - 130				01/17/23 13:25	01/19/23 00:13	1

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Client Sample Results

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3860-1

Client Sample ID: SW-3
Date Collected: 01/12/23 10:25
Date Received: 01/13/23 14:47
Sample Depth: 3

Lab Sample ID: 890-3860-4
Matrix: Solid

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	236		5.00	0.395	mg/Kg			01/17/23 15:25	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Surrogate Summary

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3860-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-3860-1	S-7	92	97
890-3860-1 MS	S-7	127	101
890-3860-1 MSD	S-7	114	99
890-3860-2	S-8	94	95
890-3860-3	SW-1	114	84
890-3860-4	SW-3	84	74
LCS 880-44226/1-A	Lab Control Sample	89	104
LCSD 880-44226/2-A	Lab Control Sample Dup	112	99
MB 880-44226/5-A	Method Blank	82	90
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)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-3860-1	S-7	115	103
890-3860-1 MS	S-7	88	79
890-3860-1 MSD	S-7	95	86
890-3860-2	S-8	108	100
890-3860-3	SW-1	97	88
890-3860-4	SW-3	100	93
LCS 880-44154/2-A	Lab Control Sample	172 S1+	159 S1+
LCSD 880-44154/3-A	Lab Control Sample Dup	113	100
MB 880-44154/1-A	Method Blank	120	120
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3860-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-44226/5-A

Matrix: Solid

Analysis Batch: 44223

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/18/23 08:29	01/18/23 11:41	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		01/18/23 08:29	01/18/23 11:41	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/18/23 08:29	01/18/23 11:41	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/18/23 08:29	01/18/23 11:41	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/18/23 08:29	01/18/23 11:41	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/18/23 08:29	01/18/23 11:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	01/18/23 08:29	01/18/23 11:41	1
1,4-Difluorobenzene (Surr)	90		70 - 130	01/18/23 08:29	01/18/23 11:41	1

Lab Sample ID: LCS 880-44226/1-A

Matrix: Solid

Analysis Batch: 44223

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09903		mg/Kg		99	70 - 130
Toluene	0.100	0.09706		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.08273		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	0.200	0.1705		mg/Kg		85	70 - 130
o-Xylene	0.100	0.09254		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-44226/2-A

Matrix: Solid

Analysis Batch: 44223

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44226

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1030		mg/Kg		103	70 - 130	4	35
Toluene	0.100	0.1089		mg/Kg		109	70 - 130	12	35
Ethylbenzene	0.100	0.1053		mg/Kg		105	70 - 130	24	35
m-Xylene & p-Xylene	0.200	0.2353		mg/Kg		118	70 - 130	32	35
o-Xylene	0.100	0.1291		mg/Kg		129	70 - 130	33	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-3860-1 MS

Matrix: Solid

Analysis Batch: 44223

Client Sample ID: S-7

Prep Type: Total/NA

Prep Batch: 44226

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000387	U	0.0990	0.09265		mg/Kg		94	70 - 130
Toluene	<0.000459	U	0.0990	0.09939		mg/Kg		100	70 - 130

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QC Sample Results

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3860-1

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

Lab Sample ID: 890-3860-1 MS

Matrix: Solid

Analysis Batch: 44223

Client Sample ID: S-7

Prep Type: Total/NA

Prep Batch: 44226

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.000568	U	0.0990	0.09605		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	<0.00102	U	0.198	0.2160		mg/Kg		109	70 - 130
o-Xylene	<0.000346	U	0.0990	0.1191		mg/Kg		120	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-3860-1 MSD

Matrix: Solid

Analysis Batch: 44223

Client Sample ID: S-7

Prep Type: Total/NA

Prep Batch: 44226

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000387	U	0.101	0.08187		mg/Kg		81	70 - 130	12	35
Toluene	<0.000459	U	0.101	0.08779		mg/Kg		87	70 - 130	12	35
Ethylbenzene	<0.000568	U	0.101	0.08013		mg/Kg		79	70 - 130	18	35
m-Xylene & p-Xylene	<0.00102	U	0.202	0.1785		mg/Kg		89	70 - 130	19	35
o-Xylene	<0.000346	U	0.101	0.09776		mg/Kg		97	70 - 130	20	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-44154/1-A

Matrix: Solid

Analysis Batch: 44218

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44154

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		01/17/23 13:25	01/18/23 21:17	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		01/17/23 13:25	01/18/23 21:17	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/17/23 13:25	01/18/23 21:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	01/17/23 13:25	01/18/23 21:17	1
o-Terphenyl	120		70 - 130	01/17/23 13:25	01/18/23 21:17	1

Lab Sample ID: LCS 880-44154/2-A

Matrix: Solid

Analysis Batch: 44218

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44154

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	870.9		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1000	900.2		mg/Kg		90	70 - 130

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QC Sample Results

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3860-1

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

Lab Sample ID: LCS 880-44154/2-A
Matrix: Solid
Analysis Batch: 44218

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 44154

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	172	S1+	70 - 130
o-Terphenyl	159	S1+	70 - 130

Lab Sample ID: LCSD 880-44154/3-A
Matrix: Solid
Analysis Batch: 44218

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 44154

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	930.2		mg/Kg		93	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	842.5		mg/Kg		84	70 - 130	7	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: 890-3860-1 MS
Matrix: Solid
Analysis Batch: 44218

Client Sample ID: S-7
Prep Type: Total/NA
Prep Batch: 44154

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	19.9	J	998	1075		mg/Kg		106	70 - 130		
Diesel Range Organics (Over C10-C28)	27.0	J	998	922.8		mg/Kg		90	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	79		70 - 130

Lab Sample ID: 890-3860-1 MSD
Matrix: Solid
Analysis Batch: 44218

Client Sample ID: S-7
Prep Type: Total/NA
Prep Batch: 44154

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	19.9	J	997	980.2		mg/Kg		96	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	27.0	J	997	976.4		mg/Kg		95	70 - 130	6	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	86		70 - 130

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QC Sample Results

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3860-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44148/1-A

Matrix: Solid

Analysis Batch: 44156

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			01/17/23 14:05	1

Lab Sample ID: LCS 880-44148/2-A

Matrix: Solid

Analysis Batch: 44156

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	254.0		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-44148/3-A

Matrix: Solid

Analysis Batch: 44156

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	254.1		mg/Kg		102	90 - 110	0	20

QC Association Summary

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3860-1

GC VOA

Analysis Batch: 44223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3860-1	S-7	Total/NA	Solid	8021B	44226
890-3860-2	S-8	Total/NA	Solid	8021B	44226
890-3860-3	SW-1	Total/NA	Solid	8021B	44226
890-3860-4	SW-3	Total/NA	Solid	8021B	44226
MB 880-44226/5-A	Method Blank	Total/NA	Solid	8021B	44226
LCS 880-44226/1-A	Lab Control Sample	Total/NA	Solid	8021B	44226
LCSD 880-44226/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	44226
890-3860-1 MS	S-7	Total/NA	Solid	8021B	44226
890-3860-1 MSD	S-7	Total/NA	Solid	8021B	44226

Prep Batch: 44226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3860-1	S-7	Total/NA	Solid	5035	
890-3860-2	S-8	Total/NA	Solid	5035	
890-3860-3	SW-1	Total/NA	Solid	5035	
890-3860-4	SW-3	Total/NA	Solid	5035	
MB 880-44226/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-44226/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-44226/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3860-1 MS	S-7	Total/NA	Solid	5035	
890-3860-1 MSD	S-7	Total/NA	Solid	5035	

Analysis Batch: 44267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3860-1	S-7	Total/NA	Solid	Total BTEX	
890-3860-2	S-8	Total/NA	Solid	Total BTEX	
890-3860-3	SW-1	Total/NA	Solid	Total BTEX	
890-3860-4	SW-3	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 44154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3860-1	S-7	Total/NA	Solid	8015NM Prep	
890-3860-2	S-8	Total/NA	Solid	8015NM Prep	
890-3860-3	SW-1	Total/NA	Solid	8015NM Prep	
890-3860-4	SW-3	Total/NA	Solid	8015NM Prep	
MB 880-44154/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-44154/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-44154/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3860-1 MS	S-7	Total/NA	Solid	8015NM Prep	
890-3860-1 MSD	S-7	Total/NA	Solid	8015NM Prep	

Analysis Batch: 44218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3860-1	S-7	Total/NA	Solid	8015B NM	44154
890-3860-2	S-8	Total/NA	Solid	8015B NM	44154
890-3860-3	SW-1	Total/NA	Solid	8015B NM	44154
890-3860-4	SW-3	Total/NA	Solid	8015B NM	44154
MB 880-44154/1-A	Method Blank	Total/NA	Solid	8015B NM	44154
LCS 880-44154/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	44154

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QC Association Summary

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3860-1

GC Semi VOA (Continued)

Analysis Batch: 44218 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-44154/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	44154
890-3860-1 MS	S-7	Total/NA	Solid	8015B NM	44154
890-3860-1 MSD	S-7	Total/NA	Solid	8015B NM	44154

Analysis Batch: 44330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3860-1	S-7	Total/NA	Solid	8015 NM	
890-3860-2	S-8	Total/NA	Solid	8015 NM	
890-3860-3	SW-1	Total/NA	Solid	8015 NM	
890-3860-4	SW-3	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 44148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3860-1	S-7	Soluble	Solid	DI Leach	
890-3860-2	S-8	Soluble	Solid	DI Leach	
890-3860-3	SW-1	Soluble	Solid	DI Leach	
890-3860-4	SW-3	Soluble	Solid	DI Leach	
MB 880-44148/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44148/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44148/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 44156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3860-1	S-7	Soluble	Solid	300.0	44148
890-3860-2	S-8	Soluble	Solid	300.0	44148
890-3860-3	SW-1	Soluble	Solid	300.0	44148
890-3860-4	SW-3	Soluble	Solid	300.0	44148
MB 880-44148/1-A	Method Blank	Soluble	Solid	300.0	44148
LCS 880-44148/2-A	Lab Control Sample	Soluble	Solid	300.0	44148
LCSD 880-44148/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44148

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Lab Chronicle

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3860-1

Client Sample ID: S-7

Lab Sample ID: 890-3860-1

Date Collected: 01/12/23 10:01

Matrix: Solid

Date Received: 01/13/23 14:47

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	44226	01/18/23 08:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44223	01/18/23 12:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44267	01/18/23 14:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44330	01/19/23 12:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44154	01/17/23 13:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44218	01/18/23 22:24	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	44148	01/17/23 11:25	KS	EET MID
Soluble	Analysis	300.0		1			44156	01/17/23 14:54	CH	EET MID

Client Sample ID: S-8

Lab Sample ID: 890-3860-2

Date Collected: 01/12/23 10:09

Matrix: Solid

Date Received: 01/13/23 14:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	44226	01/18/23 08:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44223	01/18/23 12:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44267	01/18/23 14:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44330	01/19/23 12:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	44154	01/17/23 13:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44218	01/18/23 23:30	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	44148	01/17/23 11:25	KS	EET MID
Soluble	Analysis	300.0		5			44156	01/17/23 15:00	CH	EET MID

Client Sample ID: SW-1

Lab Sample ID: 890-3860-3

Date Collected: 01/12/23 10:13

Matrix: Solid

Date Received: 01/13/23 14:47

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	44226	01/18/23 08:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44223	01/18/23 12:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44267	01/18/23 14:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44330	01/19/23 12:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44154	01/17/23 13:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44218	01/18/23 23:51	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	44148	01/17/23 11:25	KS	EET MID
Soluble	Analysis	300.0		1			44156	01/17/23 15:19	CH	EET MID

Client Sample ID: SW-3

Lab Sample ID: 890-3860-4

Date Collected: 01/12/23 10:25

Matrix: Solid

Date Received: 01/13/23 14:47

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	44226	01/18/23 08:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44223	01/18/23 13:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44267	01/18/23 14:19	AJ	EET MID

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Lab Chronicle

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3860-1

Client Sample ID: SW-3
Date Collected: 01/12/23 10:25
Date Received: 01/13/23 14:47

Lab Sample ID: 890-3860-4
Matrix: Solid

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			44330	01/19/23 12:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	44154	01/17/23 13:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44218	01/19/23 00:13	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44148	01/17/23 11:25	KS	EET MID
Soluble	Analysis	300.0		1			44156	01/17/23 15:25	CH	EET MID

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

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Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3860-1

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	T104704400-22-25	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

- 1
- 2
- 3
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- 13
- 14

Method Summary

Client: Talon/LPE

Job ID: 890-3860-1

Project/Site: BIG SKY ABY STATE #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

Eurofins Carlsbad

Sample Summary

Client: Talon/LPE
Project/Site: BIG SKY ABY STATE #1

Job ID: 890-3860-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3860-1	S-7	Solid	01/12/23 10:01	01/13/23 14:47	6
890-3860-2	S-8	Solid	01/12/23 10:09	01/13/23 14:47	6
890-3860-3	SW-1	Solid	01/12/23 10:13	01/13/23 14:47	3
890-3860-4	SW-3	Solid	01/12/23 10:25	01/13/23 14:47	3

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- 14



Environment Testing

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3333
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No.:

Page 1 of 1

Project Manager:	Chad Hensley	Bill to: (if different)	Jeremy Haas
Company Name:	Talon LPE	Company Name:	EOG
Address:	408 W. Texas Ave.	Address:	
City, State ZIP:	Artesia, NM 88210	City, State ZIP:	
Phone:	575.746.8768	Email:	Chensley@talonlpe.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:	

Project Name:	Big Sky Army State #1	Turn Around	Pres. Code	ANALYSIS REQUEST						Preservative Codes			
Project Number:		<input checked="" type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush										None: NO	DI Water: H ₂ O
Project Location:	Rural County, NM	Due Date:	1/18/2023									Cool: Cool	MeOH: Me
Sampler's Name:	Chad Hensley	TAT starts the day received by the lab, if received by 4:30pm										HCL: HC	HNO ₃ : HN
PO #:	N/A											H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT		Jemp Blank:	<input checked="" type="radio"/> Yes <input type="radio"/> No	Wet Ice:	<input checked="" type="radio"/> Yes <input type="radio"/> No							H ₃ PO ₄ : HP	
Samples Received Intact	<input checked="" type="radio"/> Yes <input type="radio"/> No	Thermometer ID:	7616-0037							NaHSO ₄ : NABIS			
Cooler Custody Seals:	<input checked="" type="radio"/> Yes <input type="radio"/> No	Correction Factor:	-0.2							Na ₂ S ₂ O ₃ : NaS ₂ O ₃			
Sample Custody Seals:	<input checked="" type="radio"/> Yes <input type="radio"/> No	Temperature Reading:	1.2							Zn Acetate+NaOH: Zn			
Total Containers:		Corrected Temperature:	1.0							NaOH+Ascorbic Acid: SASC			

[illegible]

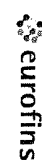
Circle Method(s) and Metal(s) to be analyzed	200.7 / 6010	200.8 / 6020:
8RCRA 13PPM	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn	
TC1P / SPLP 6010: 8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company, to Eurofins Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno 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 Xeno. A minimum charge of \$85.00 will be applied to each project and a charge of \$3 for each sample submitted to Eurofins Xeno, 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 <i>Carly</i>	<i>[Signature]</i>	1-13-23 1449			
3					
5					

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax. 575-988-3199

Chain of Custody Record



Environment Testing

1/19/2023

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-3860-1

SDG Number:

Login Number: 3860

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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: Talon/LPE

Job Number: 890-3860-1

SDG Number:

Login Number: 3860

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 01/17/23 11:09 AM

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.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
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").	True	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Chad Hensley
Talon/LPE
408 W. Texas St.
Artesia, New Mexico 88210

Generated 1/30/2023 9:50:29 AM

JOB DESCRIPTION

Big Sky ABY State #001
SDG NUMBER 700438.306.01

JOB NUMBER

890-3954-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



Eurofins Carlsbad**Job Notes**

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
1/30/2023 9:50:29 AM

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

Client: Talon/LPE
Project/Site: Big Sky ABY State #001

Laboratory Job ID: 890-3954-1
SDG: 700438.306.01

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Definitions/Glossary

Client: Talon/LPE
Project/Site: Big Sky ABY State #001

Job ID: 890-3954-1
SDG: 700438.306.01

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low 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: Talon/LPE
Project/Site: Big Sky ABY State #001

Job ID: 890-3954-1
SDG: 700438.306.01

Job ID: 890-3954-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-3954-1****Receipt**

The samples were received on 1/24/2023 1:07 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 4.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-8 (890-3954-1), SW-1 (890-3954-2) and SW-3 (890-3954-3).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-8 (890-3954-1). 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: SW-1 (890-3954-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-44944 and analytical batch 880-44886 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

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: Talon/LPE
Project/Site: Big Sky ABY State #001

Job ID: 890-3954-1
SDG: 700438.306.01

Client Sample ID: S-8

Lab Sample ID: 890-3954-1

Date Collected: 01/23/23 07:15

Matrix: Solid

Date Received: 01/24/23 13:07

Sample Depth: 6'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		01/25/23 12:57	01/26/23 02:34	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		01/25/23 12:57	01/26/23 02:34	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		01/25/23 12:57	01/26/23 02:34	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		01/25/23 12:57	01/26/23 02:34	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		01/25/23 12:57	01/26/23 02:34	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		01/25/23 12:57	01/26/23 02:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130	01/25/23 12:57	01/26/23 02:34	1
1,4-Difluorobenzene (Surr)	92		70 - 130	01/25/23 12:57	01/26/23 02:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			01/26/23 12:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	163		49.9	15.0	mg/Kg			01/30/23 10:03	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	46.7	J *1	49.9	15.0	mg/Kg		01/27/23 16:20	01/28/23 03:14	1
Diesel Range Organics (Over C10-C28)	91.9		49.9	15.0	mg/Kg		01/27/23 16:20	01/28/23 03:14	1
Oil Range Organics (Over C28-C36)	24.6	J	49.9	15.0	mg/Kg		01/27/23 16:20	01/28/23 03:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	01/27/23 16:20	01/28/23 03:14	1
o-Terphenyl	74		70 - 130	01/27/23 16:20	01/28/23 03:14	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	837		25.3	1.99	mg/Kg			01/27/23 11:42	5

Client Sample ID: SW-1

Lab Sample ID: 890-3954-2

Date Collected: 01/23/23 07:23

Matrix: Solid

Date Received: 01/24/23 13:07

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		01/25/23 12:57	01/26/23 02:54	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		01/25/23 12:57	01/26/23 02:54	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		01/25/23 12:57	01/26/23 02:54	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		01/25/23 12:57	01/26/23 02:54	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		01/25/23 12:57	01/26/23 02:54	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		01/25/23 12:57	01/26/23 02:54	1

Eurofins Carlsbad

Client Sample Results

Client: Talon/LPE
Project/Site: Big Sky ABY State #001

Job ID: 890-3954-1
SDG: 700438.306.01

Client Sample ID: SW-1

Lab Sample ID: 890-3954-2

Date Collected: 01/23/23 07:23

Matrix: Solid

Date Received: 01/24/23 13:07

Sample Depth: 3'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	01/25/23 12:57	01/26/23 02:54	1
1,4-Difluorobenzene (Surr)	80		70 - 130	01/25/23 12:57	01/26/23 02:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			01/26/23 12:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	233		50.0	15.0	mg/Kg			01/30/23 10:03	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	46.8	J *1	50.0	15.0	mg/Kg		01/27/23 16:20	01/28/23 03:40	1
Diesel Range Organics (Over C10-C28)	138		50.0	15.0	mg/Kg		01/27/23 16:20	01/28/23 03:40	1
Oil Range Organics (Over C28-C36)	48.3	J	50.0	15.0	mg/Kg		01/27/23 16:20	01/28/23 03:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	63	S1-	70 - 130				01/27/23 16:20	01/28/23 03:40	1
o-Terphenyl	59	S1-	70 - 130				01/27/23 16:20	01/28/23 03:40	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	686		5.00	0.395	mg/Kg			01/27/23 12:00	1

Client Sample ID: SW-3

Lab Sample ID: 890-3954-3

Date Collected: 01/23/23 07:20

Matrix: Solid

Date Received: 01/24/23 13:07

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		01/25/23 12:57	01/26/23 04:16	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		01/25/23 12:57	01/26/23 04:16	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		01/25/23 12:57	01/26/23 04:16	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		01/25/23 12:57	01/26/23 04:16	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		01/25/23 13:26	01/26/23 16:25	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		01/25/23 12:57	01/26/23 04:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				01/25/23 13:26	01/26/23 16:25	1
1,4-Difluorobenzene (Surr)	90		70 - 130				01/25/23 13:26	01/26/23 16:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			01/26/23 12:22	1

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Client Sample Results

Client: Talon/LPE
Project/Site: Big Sky ABY State #001

Job ID: 890-3954-1
SDG: 700438.306.01

Client Sample ID: SW-3

Lab Sample ID: 890-3954-3

Date Collected: 01/23/23 07:20

Matrix: Solid

Date Received: 01/24/23 13:07

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	662		49.9	15.0	mg/Kg			01/30/23 10:03	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	43.5	J *1	49.9	15.0	mg/Kg		01/27/23 16:20	01/28/23 04:25	1
Diesel Range Organics (Over C10-C28)	471		49.9	15.0	mg/Kg		01/27/23 16:20	01/28/23 04:25	1
Oil Range Organics (Over C28-C36)	147		49.9	15.0	mg/Kg		01/27/23 16:20	01/28/23 04:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				01/27/23 16:20	01/28/23 04:25	1
o-Terphenyl	79		70 - 130				01/27/23 16:20	01/28/23 04:25	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	372		4.99	0.394	mg/Kg			01/27/23 12:06	1

Surrogate Summary

Client: Talon/LPE
Project/Site: Big Sky ABY State #001

Job ID: 890-3954-1
SDG: 700438.306.01

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-3954-1	S-8	67 S1-	92
890-3954-2	SW-1	85	80
890-3954-3	SW-3	84	90
LCS 880-44726/1-A	Lab Control Sample	105	103
LCS 880-44728/1-A	Lab Control Sample	112	104
LCSD 880-44726/2-A	Lab Control Sample Dup	99	110
LCSD 880-44728/2-A	Lab Control Sample Dup	110	105
MB 880-44618/5-A	Method Blank	75	96
MB 880-44726/5-A	Method Blank	71	91
MB 880-44728/5-A	Method Blank	78	88
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)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-3954-1	S-8	80	74
890-3954-2	SW-1	63 S1-	59 S1-
890-3954-3	SW-3	82	79
LCS 880-44944/2-A	Lab Control Sample	92	94
LCSD 880-44944/3-A	Lab Control Sample Dup	87	89
MB 880-44944/1-A	Method Blank	116	117
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Talon/LPE
Project/Site: Big Sky ABY State #001

Job ID: 890-3954-1
SDG: 700438.306.01

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-44618/5-A

Matrix: Solid

Analysis Batch: 44694

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44618

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/24/23 11:18	01/25/23 12:17	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		01/24/23 11:18	01/25/23 12:17	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/24/23 11:18	01/25/23 12:17	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/24/23 11:18	01/25/23 12:17	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/24/23 11:18	01/25/23 12:17	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/24/23 11:18	01/25/23 12:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	01/24/23 11:18	01/25/23 12:17	1
1,4-Difluorobenzene (Surr)	96		70 - 130	01/24/23 11:18	01/25/23 12:17	1

Lab Sample ID: MB 880-44726/5-A

Matrix: Solid

Analysis Batch: 44694

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44726

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/25/23 12:57	01/25/23 23:29	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		01/25/23 12:57	01/25/23 23:29	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/25/23 12:57	01/25/23 23:29	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/25/23 12:57	01/25/23 23:29	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/25/23 12:57	01/25/23 23:29	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/25/23 12:57	01/25/23 23:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	01/25/23 12:57	01/25/23 23:29	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/25/23 12:57	01/25/23 23:29	1

Lab Sample ID: LCS 880-44726/1-A

Matrix: Solid

Analysis Batch: 44694

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44726

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1116		mg/Kg		112	70 - 130
Toluene	0.100	0.1072		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.1073		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	0.200	0.2213		mg/Kg		111	70 - 130
o-Xylene	0.100	0.1104		mg/Kg		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-44726/2-A

Matrix: Solid

Analysis Batch: 44694

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44726

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1045		mg/Kg		105	70 - 130	6	35

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QC Sample Results

Client: Talon/LPE
Project/Site: Big Sky ABY State #001

Job ID: 890-3954-1
SDG: 700438.306.01

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

Lab Sample ID: LCSD 880-44726/2-A

Matrix: Solid

Analysis Batch: 44694

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44726

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09298		mg/Kg		93	70 - 130	14	35
Ethylbenzene	0.100	0.08807		mg/Kg		88	70 - 130	20	35
m-Xylene & p-Xylene	0.200	0.1817		mg/Kg		91	70 - 130	20	35
o-Xylene	0.100	0.09143		mg/Kg		91	70 - 130	19	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: MB 880-44728/5-A

Matrix: Solid

Analysis Batch: 44778

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44728

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/25/23 13:26	01/26/23 11:30	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		01/25/23 13:26	01/26/23 11:30	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/25/23 13:26	01/26/23 11:30	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/25/23 13:26	01/26/23 11:30	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/25/23 13:26	01/26/23 11:30	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/25/23 13:26	01/26/23 11:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	01/25/23 13:26	01/26/23 11:30	1
1,4-Difluorobenzene (Surr)	88		70 - 130	01/25/23 13:26	01/26/23 11:30	1

Lab Sample ID: LCS 880-44728/1-A

Matrix: Solid

Analysis Batch: 44778

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44728

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1033		mg/Kg		103	70 - 130
Toluene	0.100	0.1060		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1109		mg/Kg		111	70 - 130
m-Xylene & p-Xylene	0.200	0.2389		mg/Kg		119	70 - 130
o-Xylene	0.100	0.1179		mg/Kg		118	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-44728/2-A

Matrix: Solid

Analysis Batch: 44778

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44728

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1082		mg/Kg		108	70 - 130	5	35
Toluene	0.100	0.1042		mg/Kg		104	70 - 130	2	35
Ethylbenzene	0.100	0.1092		mg/Kg		109	70 - 130	2	35

Eurofins Carlsbad

QC Sample Results

Client: Talon/LPE
Project/Site: Big Sky ABY State #001

Job ID: 890-3954-1
SDG: 700438.306.01

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

Lab Sample ID: LCSD 880-44728/2-A

Matrix: Solid

Analysis Batch: 44778

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44728

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	0.200	0.2352		mg/Kg		118	70 - 130	2	35
o-Xylene	0.100	0.1160		mg/Kg		116	70 - 130	2	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	110		70 - 130						
1,4-Difluorobenzene (Surr)	105		70 - 130						

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

Lab Sample ID: MB 880-44944/1-A

Matrix: Solid

Analysis Batch: 44886

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44944

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		01/27/23 16:20	01/27/23 22:09	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		01/27/23 16:20	01/27/23 22:09	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/27/23 16:20	01/27/23 22:09	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	116		70 - 130	01/27/23 16:20	01/27/23 22:09	1			
o-Terphenyl	117		70 - 130	01/27/23 16:20	01/27/23 22:09	1			

Lab Sample ID: LCS 880-44944/2-A

Matrix: Solid

Analysis Batch: 44886

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44944

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10			999	940.9		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)			999	929.8		mg/Kg		93	70 - 130		

Lab Sample ID: LCSD 880-44944/3-A

Matrix: Solid

Analysis Batch: 44886

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44944

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	999	747.1	*1	mg/Kg		75	70 - 130	23	20
Diesel Range Organics (Over C10-C28)	999	864.6		mg/Kg		87	70 - 130	7	20

Eurofins Carlsbad

QC Sample Results

Client: Talon/LPE
Project/Site: Big Sky ABY State #001

Job ID: 890-3954-1
SDG: 700438.306.01

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

Lab Sample ID: LCSD 880-44944/3-A

Matrix: Solid

Analysis Batch: 44886

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44944

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	89		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44891/1-A

Matrix: Solid

Analysis Batch: 44905

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			01/27/23 11:23		1

Lab Sample ID: LCS 880-44891/2-A

Matrix: Solid

Analysis Batch: 44905

Client Sample ID: Lab Control Sample

Prep Type: Soluble

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			250	251.6		mg/Kg		101	90 - 110	

Lab Sample ID: LCSD 880-44891/3-A

Matrix: Solid

Analysis Batch: 44905

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	254.1		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 890-3954-1 MS

Matrix: Solid

Analysis Batch: 44905

Client Sample ID: S-8

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	837		1260	2195		mg/Kg		108	90 - 110	

Lab Sample ID: 890-3954-1 MSD

Matrix: Solid

Analysis Batch: 44905

Client Sample ID: S-8

Prep Type: Soluble

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	837		1260	2199		mg/Kg		108	90 - 110	0	20

Eurofins Carlsbad

QC Association Summary

Client: Talon/LPE
Project/Site: Big Sky ABY State #001

Job ID: 890-3954-1
SDG: 700438.306.01

GC VOA

Prep Batch: 44618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-44618/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 44694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3954-1	S-8	Total/NA	Solid	8021B	44726
890-3954-2	SW-1	Total/NA	Solid	8021B	44726
890-3954-3	SW-3	Total/NA	Solid	8021B	44726
MB 880-44618/5-A	Method Blank	Total/NA	Solid	8021B	44618
MB 880-44726/5-A	Method Blank	Total/NA	Solid	8021B	44726
LCS 880-44726/1-A	Lab Control Sample	Total/NA	Solid	8021B	44726
LCSD 880-44726/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	44726

Prep Batch: 44726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3954-1	S-8	Total/NA	Solid	5035	
890-3954-2	SW-1	Total/NA	Solid	5035	
890-3954-3	SW-3	Total/NA	Solid	5035	
MB 880-44726/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-44726/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-44726/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 44728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3954-3	SW-3	Total/NA	Solid	5035	
MB 880-44728/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-44728/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-44728/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 44778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3954-3	SW-3	Total/NA	Solid	8021B	44728
MB 880-44728/5-A	Method Blank	Total/NA	Solid	8021B	44728
LCS 880-44728/1-A	Lab Control Sample	Total/NA	Solid	8021B	44728
LCSD 880-44728/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	44728

Analysis Batch: 44819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3954-1	S-8	Total/NA	Solid	Total BTEX	
890-3954-2	SW-1	Total/NA	Solid	Total BTEX	
890-3954-3	SW-3	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 44886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3954-1	S-8	Total/NA	Solid	8015B NM	44944
890-3954-2	SW-1	Total/NA	Solid	8015B NM	44944
890-3954-3	SW-3	Total/NA	Solid	8015B NM	44944
MB 880-44944/1-A	Method Blank	Total/NA	Solid	8015B NM	44944
LCS 880-44944/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	44944
LCSD 880-44944/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	44944

Eurofins Carlsbad

QC Association Summary

Client: Talon/LPE
Project/Site: Big Sky ABY State #001

Job ID: 890-3954-1
SDG: 700438.306.01

GC Semi VOA

Prep Batch: 44944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3954-1	S-8	Total/NA	Solid	8015NM Prep	
890-3954-2	SW-1	Total/NA	Solid	8015NM Prep	
890-3954-3	SW-3	Total/NA	Solid	8015NM Prep	
MB 880-44944/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-44944/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-44944/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 45003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3954-1	S-8	Total/NA	Solid	8015 NM	
890-3954-2	SW-1	Total/NA	Solid	8015 NM	
890-3954-3	SW-3	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 44891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3954-1	S-8	Soluble	Solid	DI Leach	
890-3954-2	SW-1	Soluble	Solid	DI Leach	
890-3954-3	SW-3	Soluble	Solid	DI Leach	
MB 880-44891/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44891/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44891/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3954-1 MS	S-8	Soluble	Solid	DI Leach	
890-3954-1 MSD	S-8	Soluble	Solid	DI Leach	

Analysis Batch: 44905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3954-1	S-8	Soluble	Solid	300.0	44891
890-3954-2	SW-1	Soluble	Solid	300.0	44891
890-3954-3	SW-3	Soluble	Solid	300.0	44891
MB 880-44891/1-A	Method Blank	Soluble	Solid	300.0	44891
LCS 880-44891/2-A	Lab Control Sample	Soluble	Solid	300.0	44891
LCSD 880-44891/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44891
890-3954-1 MS	S-8	Soluble	Solid	300.0	44891
890-3954-1 MSD	S-8	Soluble	Solid	300.0	44891

Lab Chronicle

Client: Talon/LPE
Project/Site: Big Sky ABY State #001

Job ID: 890-3954-1
SDG: 700438.306.01

Client Sample ID: S-8

Lab Sample ID: 890-3954-1

Date Collected: 01/23/23 07:15

Matrix: Solid

Date Received: 01/24/23 13:07

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	44726	01/25/23 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44694	01/26/23 02:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44819	01/26/23 12:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			45003	01/30/23 10:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44944	01/27/23 16:20	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44886	01/28/23 03:14	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	44891	01/27/23 09:30	KS	EET MID
Soluble	Analysis	300.0		5			44905	01/27/23 11:42	CH	EET MID

Client Sample ID: SW-1

Lab Sample ID: 890-3954-2

Date Collected: 01/23/23 07:23

Matrix: Solid

Date Received: 01/24/23 13:07

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	44726	01/25/23 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44694	01/26/23 02:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44819	01/26/23 12:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			45003	01/30/23 10:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44944	01/27/23 16:20	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44886	01/28/23 03:40	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44891	01/27/23 09:30	KS	EET MID
Soluble	Analysis	300.0		1			44905	01/27/23 12:00	CH	EET MID

Client Sample ID: SW-3

Lab Sample ID: 890-3954-3

Date Collected: 01/23/23 07:20

Matrix: Solid

Date Received: 01/24/23 13:07

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	44726	01/25/23 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44694	01/26/23 04:16	MNR	EET MID
Total/NA	Prep	5035			5.01 g	5 mL	44728	01/25/23 13:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44778	01/26/23 16:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44819	01/26/23 12:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			45003	01/30/23 10:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44944	01/27/23 16:20	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44886	01/28/23 04:25	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	44891	01/27/23 09:30	KS	EET MID
Soluble	Analysis	300.0		1			44905	01/27/23 12:06	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: Big Sky ABY State #001

Job ID: 890-3954-1
SDG: 700438.306.01

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	T104704400-22-25	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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Talon/LPE
Project/Site: Big Sky ABY State #001

Job ID: 890-3954-1
SDG: 700438.306.01

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: Talon/LPE
Project/Site: Big Sky ABY State #001

Job ID: 890-3954-1
SDG: 700438.306.01

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3954-1	S-8	Solid	01/23/23 07:15	01/24/23 13:07	6'
890-3954-2	SW-1	Solid	01/23/23 07:23	01/24/23 13:07	3'
890-3954-3	SW-3	Solid	01/23/23 07:20	01/24/23 13:07	3'

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-3954-1

SDG Number: 700438.306.01

Login Number: 3954

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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: Talon/LPE

Job Number: 890-3954-1

SDG Number: 700438.306.01

Login Number: 3954

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 01/25/23 12:13 PM

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	



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

August 02, 2023

CHAD HENSLEY

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: BIG SKY ABY STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 07/26/23 14:05.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 07/26/2023
Reported: 08/02/2023
Project Name: BIG SKY ABY STATE #1
Project Number: 700438.306.01
Project Location: EOG - LEA COUNTY, NM

Sampling Date: 07/26/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Brandi Bautista

Sample ID: SW - 1 (H233915-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2023	ND	2.17	108	2.00	0.116	
Toluene*	<0.050	0.050	08/01/2023	ND	2.10	105	2.00	2.16	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	2.14	107	2.00	0.970	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	6.38	106	6.00	0.439	
Total BTX	<0.300	0.300	08/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/31/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2023	ND	204	102	200	0.505	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	228	114	200	2.32	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in cursive script, appearing to read "Celey D. Keene", written in black ink.

Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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[illegible]

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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 286570

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 286570
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	11/30/2023