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Page 5

Oil Conservation Division

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

Incident IDnAPP2232132392District RPFacility IDApplication ID

## **Remediation Plan**

<ul> <li>Detailed description of proposed remediation technique</li> <li>Scaled sitemap with GPS coordinates showing delineation points</li> <li>Estimated volume of material to be remediated</li> <li>Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC</li> <li>Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)</li> </ul>		
<b><u>Deferral Requests Only</u></b> : Each of the following items must be confirm	ned as part of any request for deferral of remediation.	
Contamination must be in areas immediately under or around produ deconstruction.	ction equipment where remediation could cause a major facility	
Extents of contamination must be fully delineated.		
Contamination does not cause an imminent risk to human health, th	e environment, or groundwater.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.         Printed Name:       Rebecca Haskell         Signature:       Rubuum         Rubuum       Hawbull         Date:       1/6/23		
email: <u>bhaskel@ntglobal.com</u>	Telephone: <u>432-766-1918</u>	
OCD Only		
Received by: Jocelyn Harimon D	Date: 01/06/2023	
Approved Approved with Attached Conditions of App	proval Denied X Deferral Approved	
Signature: Robert Hamlet Da	te: <u>5/8/2023</u>	

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

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

)

Incident ID	nAPP2232132392
District RP	
Facility ID	
Application ID	

## **Release Notification**

### **Responsible Party**

Responsible Party: Earthstone Operating, LLC	OGRID: 331165	
Contact Name: Chris Martin	Contact Telephone: 432-253-9998 Ext. 2653	
Contact email: cmartin@earthstoneenergy.com       Incident # (assigned by OCD) nAPP2232132392		
Contact mailing address: 600 N. Marienfeld, Suite 1000, Midland, TX 79701		

### **Location of Release Source**

Latitude 32.296607

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Asteroid 20 29 Federal Com WCA #1H	Site Type Production Pad
Date Release Discovered November 9, 2022	API# (if applicable) 30-015-45876

Unit Letter	Section	Township	Range	County
В	20	23S	26E	Eddy

Surface Owner: State Federal Tribal Private (Name: \_\_\_\_\_

### Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls): 6	Volume Recovered (bbls): 5
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
	release was due to a leaking connection on the recover free standing fluids. The leaking connection on the standing fluids.	1

Page 2

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
🗌 Yes 🖾 No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

### **Initial Response**

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

 $\boxtimes$  The source of the release has been stopped.

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

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

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

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

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

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

Printed Name: Rebecca Haskell

Signature: Reberra Haskell

Title: Senior Project Manager

Date: 11/17/22

email: bhaskell@ntglobal.com

Telephone: 432-766-1918

**OCD Only** 

Received by:

Date:

			( )	
has	begun.	please	attach	a narrativ

Received by OCD: 1/6/2023 2:17:58 PM Form C-141 State of New Mexico

Oil Conservation Division

	Page 4 of 70
Incident ID	nAPP2232132392
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Facility ID	
Application ID	

## Site Assessment/Characterization

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

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

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- $\square$  Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD: 1/6/2	2023 2:17:58 PM State of New Mexico			Page 5 of 70
			Incident ID	nAPP2232132392
Page 4	Oil Conservation Divisi	on	District RP	
			Facility ID	
			Application ID	
regulations all operators public health or the envi failed to adequately inve addition, OCD acceptan and/or regulations.	in Haskell	notifications and perform c the OCD does not relieve th threat to groundwater, surfa	orrective actions for rele e operator of liability shace water, human health liance with any other fea t Manager	ases which may endanger ould their operations have or the environment. In
OCD Only Received by:	Jocelyn Harimon	Date:0^	1/06/2023	

Received by OCD: 1/6/2023 2:17:58 PM Form C-141 State of New Mexico

Oil Conservation Division

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

Incident ID	nAPP2232132392
District RP	
Facility ID	
Application ID	

## **Remediation Plan**

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Rebecca Haskell Title: Senior Project Manager Haskell Signature: Killeura Date: 1/6/23 email: <u>bhaskel@ntglobal.com</u> Telephone: <u>432-766-1918</u> **OCD Only** Date: 01/06/2023 Received by: Jocelyn Harimon Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Date:

Page 5

Oil Conservation Division

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Incident ID	nAPP2232132392
District RP	
Facility ID	
Application ID	

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## 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. Title: Senior Project Manager Printed Name: Rebecca Haskell Signature: Rebecca Haskell Date: 1/6/23 Telephone: <u>432-766-1918</u> email: bhaskell@ntglobal.com **OCD Only** Received by: \_\_\_\_\_ Jocelyn Harimon Date: 01/06/2023 Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_ Printed Name: Title:

Page 6



701 Tradewinds Blvd Midland, Texas 79707 Tel. 432-766-1918 www.ntgenvironmental.com

January 6, 2023

Mike Bratcher District Supervisor Oil Conservation Division, District 2 811 S. First Street Artesia, New Mexico 88210

Re: Site Characterization and Closure/Deferral Request Asteroid 20 29 Federal Com WCA #1H Earthstone Operating, LLC Site Location: Unit A, S20, T23S, R26E (Lat 32.296607 °, Long -104.310615 °) Eddy County, New Mexico Incident ID: nAPP2232132392

Mr. Bratcher:

On behalf of Earthstone Operating, LLC (Earthstone), New Tech Global Environmental, LLC (NTGE) has prepared this Site Characterization and Closure/Deferral Request Report for the NMOCD District 2 Office in Artesia, New Mexico for documentation of site assessment, remedial action activities, and analysis at the Asteroid 20 29 Federal Com WCA #1H (Site). The Site is located within Unit Letter A, Section 20 of Township 23 South and Range 26 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.296607° N latitude and 104.310615° W Longitude. The release occurred on Bureau of Land Management (BLM) property. Figure 1 depicts the site location with respect to the nearest town and Figure 2 shows the topographic map of the site.

#### **Background**

Based on the Release Notification C-141 Form, the release occurred on November 9, 2022, the result of a leaking connection on the bottom of the horizontal separator. Approximately 6 barrels (bbls) of produced water were released, of which 5 bbls were recovered. Upon discovery, the well was shut-in, and area secured. The release is shown on Figure 3. The initial C-141 form is attached.

#### **Site Characterization**

The site is located within a medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there are no known depth to groundwater sources within a ½-mile radius of the location. No other receptors (water wells, playas, wetlands, waterways, lakebeds or ordinance boundaries) were located within each specific boundary or distance from the Site. The site characterization documentation is attached.

#### **Regulatory Criteria**

In accordance with the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria are applicable to the Site.

Mr. Mike Bratcher January 6, 2023 Page 2 of 3

- Benzene: 10 milligrams per kilogram (mg/Kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/Kg.
- TPH: 100 mg/Kg (GRO + DRO + MRO).
- Chloride: 600 mg/Kg

#### **Remedial Action Activities and Confirmation Sampling**

Based on visual observations made during an initial assessment on December 5, 2022, Earthstone proceeded with the remedial actions at the Site to include the excavation and disposal of impacted soils above the regulatory limits. The release area was excavated to depths ranging from two (2.0) feet below ground surface (bgs) to three and a half (3.5) ft bgs as shown on Figure 3.

A total of six (6) composite confirmation samples were collected from the excavation base (CS-1 - CS-6) and seven (7) composite confirmation samples were collected from the excavation sidewalls (SW-1 - SW-7) to ensure impacted soil was removed.

The confirmation samples were collected from areas representing no greater than two hundred (200) square ft and analyzed for TPH (EPA method 8015 modified), BTEX (EPA Method 8021B), and chloride (method SM4500Cl-B or 300.0) with samples submitted to Eurofins Laboratory of Midland, Texas. Analytical results indicated that CS-2 exhibited chloride concentrations over the regulatory limit to a maximum depth of three and a half (3.5) ft bgs. Further excavation in the vicinity of C-2 was not feasible due to the proximity to the onsite separators. As such, to complete delineation of the soils at CS-2 a geotechnical hand auger was utilized to collect additional samples up to a maximum depth of four and a half (4.5) ft bgs. Samples were submitted to Cardinal Labs of Hobbs, New Mexico for analysis. Analytical results indicate the TPH impacts were delineated at four (4.0) ft bgs.

Approximately 159 tons of impacted soils were transported offsite for disposal at Lea Land, LLC of Carlsbad, New Mexico for final disposition. Manifests are available upon request. The final excavation extent and confirmation sample locations are shown in Figure 3. Analytical results of the confirmation samples are included in Table 1.

#### **Closing and Deferral Request**

Based on the assessment, remediation efforts, and requisite confirmation sampling, the Site is in compliance with NMOCD regulatory standards with the exception of CS-2 @ 2.5' and CS-2 @ 3.5' which exceeded the NMOCD standard for TPH and/or chloride concentrations. Confirmation sample CS-2 was collected between two onsite separators, further remediation of the soil at CS-2 was not feasible without destabilizing the integrity of the equipment. As such, approximately one (1) foot of impacted soil was left in-situ at the site. Earthstone requests closure with a deferral of soils left in-situ above NMOCD standards near CS-2 until time of abandonment or upgrade of equipment allows for accessibility to area. A copy of the final C-141 is attached.

If you have any questions regarding this report or need additional information, please contact us at 432-766-1918



Mr. Mike Bratcher January 6, 2023 Page 3 of 3

Sincerely, NTG Environmental

Kindle

Jeff Kindley, P.G Senior Project Manager/Geologist

Attachments:

Site Characterization Documentation Table 1 Figures Photographic Log Laboratory Reports and Chain-of-Custody Documents



.

NTGE Project No.: 226535

## FIGURES



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## TABLE

#### Table 1 Summary of Soil Analytical Data Asteroid 20 29 Federal Com WCA #1H Earthstone Operating, LLC Eddy County, New Mexico

										ТРН			
Council a UD	Council a Data	Depth	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO (C6 C-10)	DRO (C10 C28)	GRO + DRO	MRO (C28- C35)	Total GRO/DRO/MRO	Chloride
Sample ID	Sample Date	(ft bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
					Table	I Closure Cr	iteria for So	oil <50 feet D	epth to Ground	water 19.15.29	NMAC		
			10 mg/kg				50 mg/kg					100 mg/kg	600 mg/kg
Confirmation Bottom Hole Samples													
CS-1	12/13/2022	2.5'	<0.00201	<0.00201	<0.00201	<0.00402	< 0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	22.7
	12/13/2022	2.5'	<0.00199	< 0.00199	<0.00199	<0.00398	<0.00398	922	1,150	2,072	<49.9	2,072	875
CS-2	12/13/2022	3.5'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	176	176	<49.9	176	22.9
C3=2	12/29/2022	4.0'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
	12/29/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS-3	12/13/2022	2.5'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	502
C3-5	12/13/2022	3.5	<0.00200	<0.00200	<0.00200	< 0.00401	< 0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	40.7
CS-4	12/13/2022	2.5'	<0.00198	<0.00198	<0.0198	< 0.00396	< 0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	53.8
CS-5	12/13/2022	2.5'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	162
CS-6	12/13/2022	2.5'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	179
					Confir	mation Side	wall Sample	es					
SW-1	12/13/2022	0-2.5	< 0.00201	<0.00201	<0.00201	< 0.00402	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	16.5
SW-2	12/13/2022	0-2.5	< 0.00199	< 0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	95.4
SW-3	12/13/2022	0-2.5	< 0.00199	< 0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	165
SW-4	12/13/2022	0-3.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	5.8
SW-5	12/13/2022	0-3.5	<0.00398	< 0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	14.6
SW-6	12/13/2022	2.5-3.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	<4.98
SW-7	12/13/2022	0-3.5	< 0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	<5.04
Notoci													

Notes:

1. Values reported in mg/kg

2.< = Value Less Than Reporting Limit (RL)

3. Bold indicates Analyte Detected

4. BTEX analyses by EPA Method SW 8021B

SP-1 Sample Point Excavated

5. TPH analyses by EPA Method SW 8015 Mod.

6. GRO/DRO/MRO - Gasoline/Diesel/Motor Oil

7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Tablel Closure Criteria for the site.

8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table I Closure Criteria for the site (Surface to 4 Feet Below Grade).

Received by OCD: 1/6/2023 2:17:58 PM

## SITE CHARACTERIZATION INFORMATION

## Site Characterization



#### 1/6/2023, 8:24:47 AM 1:9,028 0.15 0.3 mi 0 0.07 Changed Location of Well Karst Occurrence Potential **OSE PODs** 0 **PLSS Second Division** • 0 0.15 0.3 0.6 km Medium Active **PLSS** First Division 0 Capped OSW Water Bodys ٠ Inactive ٠ Plugged BLM, OCD, New Mexico Tech, OSE GIS, USGS, Esri, HERE, Garmin, iPC, Maxar, NM OSE, BLM • Pending ۰ Unknown **OSE** Streams

0 2

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

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OCD:

1/6/2023 2:17:58 PM

## **OSE POD Locations Map**



#### 1/6/2023, 7:29:31 AM

GIS WATERS PODs

Pending

• Active

0

New Mexico State Trust Lands 5 SiteBoundaries

OSE District Boundary

Subsurface Estate

Both Estates

		1:18,	056	
0 0.17		0.35		0.7 mi
0	0.3	0.6		1.2 k

Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar

76







## U.S. Fish and Wildlife Service National Wetlands Inventory

## Asteroid 20 29 Federal WCA #1H



#### January 6, 2023

#### Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- tland 🔲 i
  - Freshwater Pond

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Lake Other Riverine This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site. Received by OCD: 1/6/2023 2:17:58 PM

## National Flood Hazard Layer FIRMette



#### Legend



250

500

1,000

1.500

Feet 2.000

1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

104°18'19"W 32°17'32"N

unmapped and unmodernized areas cannot be used for regulatory purposes. 2

## PHOTOGRAPHIC LOG

#### Received by OCD: 1/6/2023 2:17:58 PM

## PHOTOGRAPHIC LOG

#### Earthstone Operating, LLC

Photo	aranh	No	1
FIIOLO	grapn	110.	

Facility:	Asteroid 20 29 Federal
	Com WCA #1H

County: Eddy County, NM

**Date:** 11/09/2022



**South Elevation** 

© 21°N (T) • 32.296585, -104.310688 ±3 m ▲ 1006 m

12 2

Description:

View of release area.

#### Photograph No. 2

Facility:	Asteroid 20 29 Federal Com WCA #1H
County:	Eddy County, NM
Date:	11/09/2022



View of the release area.

NTGE Project No. 226530







Facility:

County:

**Description:** 

Facility:

County:

Date:

Date:

## **PHOTOGRAPHIC LOG**

#### Earthstone Operating, LLC



NTGE Project No. 226200

**Description:** 



## PHOTOGRAPHIC LOG

Earthstone Operating, LLC





## LABORATORY REPORTS AND CHAIN-OF-CUSTODY

Received by OCD: 1/6/2023 2:17:58 PM



**Environment Testing** 

# **ANALYTICAL REPORT**

## **PREPARED FOR**

Attn: Becky Haskell NT Global 701 Tradewinds Blvd Midland, Texas 79706 Generated 12/27/2022 8:47:56 AM

## JOB DESCRIPTION

Asteroid SDG NUMBER Eddy County NM

## **JOB NUMBER**

890-3644-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information



Received by OCD: 1/6/2023 2:17:58 PM

## **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

RAMER

Generated 12/27/2022 8:47:56 AM

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

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### **Definitions/Glossary**

Client: NT Global Project/Site: Asteroid

Qualifiers

Job ID: 890-3644-1 SDG: Eddy County NM

3

		— ు
GC VOA		
Qualifier	Qualifier Description	4
F1	MS and/or MSD recovery exceeds control limits.	
F2	MS/MSD RPD exceeds control limits	5
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA	N Contraction of the second	
Qualifier	Qualifier Description	
S1+	Surrogate recovery exceeds control limits, high biased.	_
U	Indicates the analyte was analyzed for but not detected.	8
HPLC/IC		Ŭ
Qualifier	Qualifier Description	Q
F1	MS and/or MSD recovery exceeds control limits.	
U	Indicates the analyte was analyzed for but not detected.	
Glossary		- 11
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)	
TEF TEQ TNTC		

#### Job ID: 890-3644-1 SDG: Eddy County NM

#### Job ID: 890-3644-1

Project/Site: Asteroid

Client: NT Global

#### Laboratory: Eurofins Carlsbad

#### Narrative

Job Narrative 890-3644-1

#### Receipt

The samples were received on 12/13/2022 1:37 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 15.0°C

#### **Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (890-3644-1), CS-2 (890-3644-2), CS-2 (890-3644-3), CS-3 (890-3644-4), CS-3 (890-3644-5), CS-4 (890-3644-6), CS-5 (890-3644-7), CS-6 (890-3644-8), SW-1 (890-3644-9), SW-2 (890-3644-10), SW-3 (890-3644-11), SW-4 (890-3644-12), SW-5 (890-3644-13), SW-6 (890-3644-14) and SW-7 (890-3644-15).

#### GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-42504 and analytical batch 880-42591 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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 880-41942 and analytical batch 880-42078 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: CS-1 (890-3644-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: CS-2 (890-3644-3) and CS-3 (890-3644-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: CS-5 (890-3644-7) and SW-2 (890-3644-10). 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: SW-4 (890-3644-12). 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: SW-7 (890-3644-15). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

#### HPLC/IC

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-41925 and analytical batch 880-42330 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: SW-3 (890-3644-11), SW-4 (890-3644-12), SW-5 (890-3644-13), SW-6 (890-3644-14), SW-7 (890-3644-15), (890-3644-A-11-B MS) and (890-3644-A-11-C MSD).

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-41925 and 880-41925 and analytical batch 880-42330 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: CS-1 (890-3644-1), CS-2 (890-3644-2), CS-2 (890-3644-3), CS-3 (890-3644-4), CS-3 (890-3644-5), CS-4 (890-3644-6), CS-5 (890-3644-7), CS-6 (890-3644-8), SW-1 (890-3644-9), SW-2 (890-3644-10), (890-3644-A-1-B MS) and (890-3644-A-1-C MSD).

Job ID: 890-3644-1

SDG: Eddy County NM

#### **Case Narrative**

Client: NT Global Project/Site: Asteroid

Job ID: 890-3644-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

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

Dil Fac

1

1

1

1

Job ID: 890-3644-1 SDG: Eddy County NM

### **Client Sample ID: CS-1**

Date Collected: 12/13/22 12:00 Date Received: 12/13/22 13:37

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

Result Qualifier

<0.00201 U F1

<0.00201 UF1

<0.00201 U F1 F2

<0.00402 U F1 F2

Sample Depth: 2.5'

Analyte

Benzene

Toluene

Ethylbenzene

m-Xylene & p-Xylene

Client: NT Global

Project/Site: Asteroid

Lab Sample ID: 890-3644-1 Matrix: Solid

Analyzed

12/24/22 18:08

12/24/22 18:08

12/24/22 18:08

12/24/22 18:08

5

RL

0.00201

0.00201

0.00201

0.00402

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

12/22/22 11:12

12/22/22 11:12

12/22/22 11:12

12/22/22 11:12

	<0.00402	01112	0.00402		mg/rty		12/22/22 11.12	12/24/22 10.00	1
o-Xylene	<0.00201	U F1 F2	0.00201		mg/Kg		12/22/22 11:12	12/24/22 18:08	1
Xylenes, Total	<0.00402	U F1 F2	0.00402		mg/Kg		12/22/22 11:12	12/24/22 18:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				12/22/22 11:12	12/24/22 18:08	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/22/22 11:12	12/24/22 18:08	1
Method: TAL SOP Total BTEX - T	otal BTEX Cal	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/26/22 15:59	1
Method: SW846 8015 NM - Diese		Qualifier		MDI	Unit	D	Dremered	Analyzad	Dil Fac
			RL	NIDL		<u> </u>	Prepared	Analyzed	
Total TPH	<50.0	U	50.0		mg/Kg			12/19/22 15:35	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/17/22 23:59	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/17/22 23:59	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/17/22 23:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				12/15/22 15:21	12/17/22 23:59	1
o-Terphenyl	136	S1+	70 - 130				12/15/22 15:21	12/17/22 23:59	1
Method: MCAWW 300.0 - Anions	Ion Chromate	aranhy - S	olublo						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.7		5.03		mg/Kg			12/22/22 21:23	1
lient Sample ID: CS-2							l ah Sar	nple ID: 890-	3611-2
ate Collected: 12/13/22 12:00							Lab Gai		ix: Solid
								watr	x: 50110
ate Received: 12/13/22 13:37									
ample Depth: 2.5'									
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC	)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg	_	12/22/22 11:12	12/24/22 18:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 18:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 18:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/22/22 11:12	12/24/22 18:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 18:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/22/22 11:12	12/24/22 18:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
		Quanner						Analyzeu	Dirrac

**Eurofins Carlsbad** 

12/24/22 18:29

12/22/22 11:12

4-Bromofluorobenzene (Surr)

70 - 130

107

1

Dil Fac

Dil Fac

Dil Fac

Dil Fac

Matrix: Solid

1

#### **Client Sample Results**

Limits

70 - 130

RL

RL

49.9

RL

49.9

49.9

49.9

RL

4.97

Limits

70 - 130

70 - 130

0.00398

MDL Unit

MDL Unit

MDL Unit

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Job ID: 890-3644-1 SDG: Eddy County NM

### **Client Sample ID: CS-2**

Client: NT Global

Project/Site: Asteroid

Sample Depth: 2.5'

1,4-Difluorobenzene (Surr)

**Gasoline Range Organics** 

**Diesel Range Organics (Over** 

Oll Range Organics (Over C28-C36)

Surrogate

Analyte

Analyte

Analyte

C10-C28)

Surrogate

o-Terphenyl

Analyte

Chloride

1-Chlorooctane

(GRO)-C6-C10

Total TPH

Total BTEX

Date Collected: 12/13/22 12:00 Date Received: 12/13/22 13:37

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

%Recovery Qualifier

Result Qualifier

Result Qualifier

Result Qualifier

110

<0.00398 Ū

2070

922

1150

%Recovery

<49.9 U

105

104

875

Result Qualifier

Qualifier

#### Lab Sample ID: 890-3644-2 Matrix: Solid

Analyzed

12/24/22 18:29

Analyzed

12/26/22 15:59

Analyzed

12/18/22 01:04

12/18/22 01:04

Analyzed

12/18/22 01:04

12/18/22 01:04

Lab Sample ID: 890-3644-3

Prepared

12/22/22 11:12

Prepared

Prepared

Prepared

12/15/22 15:21

12/15/22 15:21

Prepared

12/15/22 15:21

12/15/22 15:21

D

D

D

5

12/19/22 15:35 1 Analyzed Dil Fac 12/15/22 15:21 12/18/22 01:04

D	Prepared	Analyzed	Dil Fac		
		12/22/22 21:49	1		

#### **Client Sample ID: CS-2**

Date Collected: 12/13/22 12:00 Date Received: 12/13/22 13:37 Sample Depth: 3.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 18:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 18:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 18:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/22/22 11:12	12/24/22 18:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 18:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/22/22 11:12	12/24/22 18:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				12/22/22 11:12	12/24/22 18:49	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/22/22 11:12	12/24/22 18:49	1
- Method: TAL SOP Total BTEX -	Total BTEX Calo	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/26/22 15:59	1
- Method: SW846 8015 NM - Dies	sel Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

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**Released to Imaging: 5/23/2023 8:36:59 AM**
Job ID: 890-3644-1 SDG: Eddy County NM

Lab Sample ID: 890-3644-3

Lab Sample ID: 890-3644-4

Matrix: Solid

# Client Sample ID: CS-2

Date Collected: 12/13/22 12:00 Date Received: 12/13/22 13:37

Sample Depth: 3.5

Client: NT Global

Project/Site: Asteroid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 01:25	1
Diesel Range Organics (Over C10-C28)	176		49.9		mg/Kg		12/15/22 15:21	12/18/22 01:25	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 01:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130				12/15/22 15:21	12/18/22 01:25	1
o-Terphenyl	143	S1+	70 - 130				12/15/22 15:21	12/18/22 01:25	1

#### Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.9		4.97		mg/Kg			12/22/22 21:58	1

### Client Sample ID: CS-3

### Date Collected: 12/13/22 12:00

Date Received: 12/13/22 13:37

Sample Depth: 2.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 19:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 19:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 19:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/22/22 11:12	12/24/22 19:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 19:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/22/22 11:12	12/24/22 19:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				12/22/22 11:12	12/24/22 19:09	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/22/22 11:12	12/24/22 19:09	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	MDL	Unit mg/Kg	<u> </u>	Prepared	Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Dies	<0.00399 sel Range Organ	U	0.00399	MDL		<u>D</u> 	Prepared		Dil Fac
Total BTEX Method: SW846 8015 NM - Dies Analyte	<0.00399 sel Range Organ	U ics (DRO) ( Qualifier	0.00399		mg/Kg		<u>`</u>	12/26/22 15:59	1
Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH	sel Range Organ Result <50.0	U ics (DRO) ( Qualifier U	0.00399 GC) RL 50.0		mg/Kg Unit		<u>`</u>	12/26/22 15:59 Analyzed	1
Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Die	sel Range Organ Result <50.0 esel Range Orga	U ics (DRO) ( Qualifier U	0.00399 GC) RL 50.0		mg/Kg Unit		<u>`</u>	12/26/22 15:59 Analyzed	1
Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	sel Range Organ Result <50.0 esel Range Orga	U ics (DRO) ( Qualifier U nics (DRO) Qualifier	GC) RL 50.0 (GC)	MDL	mg/Kg Unit mg/Kg	D	Prepared	12/26/22 15:59 Analyzed 12/19/22 15:35	1 Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Organ Result <50.0 esel Range Orga Result  Result	U ics (DRO) ( Qualifier U mics (DRO) Qualifier U	0.00399 GC) RL 50.0 (GC) RL	MDL	mg/Kg Unit mg/Kg Unit	D	Prepared	12/26/22 15:59 Analyzed 12/19/22 15:35 Analyzed	1 Dil Fac 1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	12/15/22 15:21	12/18/22 01:47	1
o-Terphenyl	118		70 - 130	12/15/22 15:21	12/18/22 01:47	1

Eurofins Carlsbad

		Clier	nt Sample R	esults	;				
Client: NT Global								Job ID: 890	
Project/Site: Asteroid								SDG: Eddy Co	unty NN
Client Sample ID: CS-3							Lab Sar	nple ID: 890-	3644-4
ate Collected: 12/13/22 12:00								Matr	ix: Solid
Date Received: 12/13/22 13:37									
Sample Depth: 2.5									
-									
Method: MCAWW 300.0 - Anions Analyte		Qualifier	oluble RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	502	quantor	4.98		mg/Kg			12/22/22 22:07	
liont Sample ID: CS 3							Lab Sar	nple ID: 890-	2611
Client Sample ID: CS-3							Lap Sai		
Date Collected: 12/13/22 12:00								Matr	ix: Solid
Date Received: 12/13/22 13:37									
Sample Depth: 3.5									
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC	)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 19:30	
Toluene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 19:30	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 19:30	
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/22/22 11:12	12/24/22 19:30	
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 19:30	
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/22/22 11:12	12/24/22 19:30	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 _ 130				12/22/22 11:12	12/24/22 19:30	
1,4-Difluorobenzene (Surr)	108		70 - 130				12/22/22 11:12	12/24/22 19:30	
_ Method: TAL SOP Total BTEX - 1	Intal BTEX Cal	culation							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/26/22 15:59	
_ Method: SW846 8015 NM - Diese	Bango Organ								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9		mg/Kg			12/19/22 15:35	
_ Method: SW846 8015B NM - Die									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics			49.9		mg/Kg		12/15/22 15:21	12/18/22 02:09	
(GRO)-C6-C10		-	10.0				. 2, . 3, 22 10.21	,,	
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 02:09	
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 02:09	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	122		70 - 130				12/15/22 15:21	12/18/22 02:09	
o-Terphenyl	135	S1+	70 - 130				12/15/22 15:21	12/18/22 02:09	
- Method: MCAWW 300.0 - Anions	. Ion Chromato	ography - S	oluble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa

RL

0.00198

0.00198

0.00198

0.00396

0.00198

0.00396

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

12/22/22 11:12

12/22/22 11:12

12/22/22 11:12

12/22/22 11:12

12/22/22 11:12

12/22/22 11:12

Dil Fac

1

1

1

1

1

1

Job ID: 890-3644-1 SDG: Eddy County NM

# **Client Sample ID: CS-4**

Date Collected: 12/13/22 12:00 Date Received: 12/13/22 13:37

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

Result Qualifier

<0.00198 U

<0.00198 U

<0.00198 U

<0.00396 U

<0.00198 U

<0.00396 U

Sample Depth: 2.5

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

Client: NT Global

Project/Site: Asteroid

Lab Sample ID: 890-3644-6 Matrix: Solid

Analyzed

12/24/22 19:50

12/24/22 19:50

12/24/22 19:50

12/24/22 19:50

12/24/22 19:50

12/24/22 19:50

5

_			
	9		

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				12/22/22 11:12	12/24/22 19:50	1
1,4-Difluorobenzene (Surr)	108		70 - 130				12/22/22 11:12	12/24/22 19:50	1
- Method: TAL SOP Total BTEX - <sup>-</sup>	Total BTEX Calo	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396		mg/Kg			12/26/22 15:59	1
- Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (	GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/19/22 15:35	1
_ Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/18/22 02:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/18/22 02:30	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/18/22 02:30	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	109		70 - 130				12/15/22 15:21	12/18/22 02:30	
o-Terphenyl	122		70 - 130				12/15/22 15:21	12/18/22 02:30	1
Method: MCAWW 300.0 - Anions	s, Ion Chromato	ography - S	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	53.8		4.96		mg/Kg			12/22/22 22:42	1
Client Sample ID: CS-5							Lab Sar	nple ID: 890-	3644-7
Date Collected: 12/13/22 12:00								Matri	x: Solic
Date Received: 12/13/22 13:37									
Sample Depth: 2.5									
_ Method: SW846 8021B - Volatile	Organic Comp	ounds (GC	)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 20:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 20:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 20:11	1

Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 112	Qualifier	Limits		Prepared 12/22/22 11:12	Analyzed	Dil Fac
Xylenes, Total	<0.00398	U	0.00398	mg/Kg	12/22/22 11:12	12/24/22 20:11	1
o-Xylene	<0.00199	U	0.00199	mg/Kg	12/22/22 11:12	12/24/22 20:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg	12/22/22 11:12	12/24/22 20:11	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg	12/22/22 11:12	12/24/22 20:11	1

Dil Fac

Dil Fac

Dil Fac

Dil Fac

Matrix: Solid

1

# **Client Sample Results**

Limits

70 - 130

RL

RL

49.9

RL

49.9

49.9

0.00398

MDL Unit

MDL Unit

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Job ID: 890-3644-1
SDG: Eddy County NM

Analyzed

12/24/22 20:11

Analyzed

12/26/22 15:59

Analyzed

12/19/22 15:35

Analyzed

12/18/22 02:51

12/18/22 02:51

12/18/22 02:51

Analyzed

12/18/22 02:51

12/18/22 02:51

Lab Sample ID: 890-3644-8

Prepared

12/22/22 11:12

Prepared

Prepared

Prepared

12/15/22 15:21

12/15/22 15:21

D

D

D

# **Client Sample ID: CS-5**

Client: NT Global Project/Site: Asteroid

Sample Depth: 2.5

1,4-Difluorobenzene (Surr)

Gasoline Range Organics

**Diesel Range Organics (Over** 

Surrogate

Analyte

Analyte

Analyte

(GRO)-C6-C10

Total TPH

Total BTEX

Date Collected: 12/13/22 12:00 Date Received: 12/13/22 13:37

#### Lab Sample ID: 890-3644-7 Matrix: Solid

5

1	
Dil Fac	
1	
1	13

C10-C28) Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	12/15/22 15:21
Surrogate	%Recovery	Qualifier	Limits		Prepared
1-Chlorooctane	120		70 - 130		12/15/22 15:21
o-Terphenyl	136	S1+	70 - 130		12/15/22 15:21

# Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

%Recovery Qualifier

Result Qualifier

Ū

Result Qualifier

Result Qualifier

<49.9 U

<49.9 U

<49.9 U

111

<0.00398

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	162		5.04		mg/Kg			12/22/22 22:51	1

#### Client Sample ID: CS-6

Date Collected: 12/13/22 12:00 Date Received: 12/13/22 13:37 Sample Depth: 2.5

#### Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 12/22/22 11:12 12/24/22 20:31 Toluene <0.00200 U 0.00200 12/22/22 11.12 12/24/22 20:31 mg/Kg 1 Ethylbenzene <0.00200 U 0.00200 mg/Kg 12/22/22 11:12 12/24/22 20:31 0.00399 12/24/22 20:31 m-Xylene & p-Xylene <0.00399 U 12/22/22 11:12 mg/Kg 1 o-Xylene <0.00200 U 0.00200 mg/Kg 12/22/22 11:12 12/24/22 20:31 Xylenes, Total <0.00399 U 0.00399 mg/Kg 12/22/22 11:12 12/24/22 20:31 1 %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analvzed 70 - 130 12/22/22 11:12 4-Bromofluorobenzene (Surr) 106 12/24/22 20:31 1 1,4-Difluorobenzene (Surr) 102 70 - 130 12/22/22 11:12 12/24/22 20:31 1 Method: TAL SOP Total BTEX - Total BTEX Calculation Analvte Result Qualifier RL MDL D Unit Prepared Analvzed Dil Fac Total BTEX <0.00399 Ū 0.00399 12/26/22 15:59 mg/Kg Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <50.0 U Total TPH 50.0 12/19/22 15:35 mg/Kg 1

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Matrix: Solid

Job ID: 890-3644-1 SDG: Eddy County NM

Lab Sample ID: 890-3644-8

# Client Sample ID: CS-6

Date Collected: 12/13/22 12:00 Date Received: 12/13/22 13:37

Sample Depth: 2.5

Client: NT Global

Project/Site: Asteroid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/18/22 03:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/18/22 03:13	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/18/22 03:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130				12/15/22 15:21	12/18/22 03:13	1
o-Terphenyl	128		70 - 130				12/15/22 15:21	12/18/22 03:13	1

### Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	179		5.03		mg/Kg			12/22/22 22:59	1

### Client Sample ID: SW-1

Date Collected: 12/13/22 12:00

Date Received: 12/13/22 13:37

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/22/22 11:12	12/24/22 20:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/22/22 11:12	12/24/22 20:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/22/22 11:12	12/24/22 20:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/22/22 11:12	12/24/22 20:51	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/22/22 11:12	12/24/22 20:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/22/22 11:12	12/24/22 20:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				12/22/22 11:12	12/24/22 20:51	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/22/22 11:12	12/24/22 20:51	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/26/22 15:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/19/22 15:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 03:34	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 03:34	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 03:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				12/15/22 15:21	12/18/22 03:34	1
o-Terphenyl	129		70 - 130				12/15/22 15:21	12/18/22 03:34	1

		Clien	t Sample R	esults	5				
Client: NT Global Project/Site: Asteroid								Job ID: 890 SDG: Eddy Cou	
Client Sample ID: SW-1							Lab Sar	nple ID: 890-	
Date Collected: 12/13/22 12:00 Date Received: 12/13/22 13:37								Watri	x: Soli
Method: MCAWW 300.0 - Anions	, Ion Chromato	graphy - So	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	16.5		4.98		mg/Kg			12/22/22 23:08	
Client Sample ID: SW-2							Lab Sam	ple ID: 890-3	644-1
bate Collected: 12/13/22 12:00 bate Received: 12/13/22 13:37								-	x: Sol
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Benzene	<0.00199		0.00199		mg/Kg		12/22/22 11:12	12/24/22 21:12	
Toluene	<0.00199		0.00199		mg/Kg		12/22/22 11:12	12/24/22 21:12	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 21:12	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/22/22 11:12	12/24/22 21:12	
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 21:12	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/22/22 11:12	12/24/22 21:12	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil I
4-Bromofluorobenzene (Surr)	248	S1+	70 - 130				12/22/22 11:12	12/24/22 21:12	
1,4-Difluorobenzene (Surr)		S1+	70 - 130				12/22/22 11:12	12/24/22 21:12	
Method: TAL SOP Total BTEX - 1									
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil F
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/26/22 15:59	
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (	GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Total TPH	<49.9	U	49.9		mg/Kg			12/19/22 15:35	
Mathed: CW04C 004ED NM Disc									
Method: SW846 8015B NM - Dies Analyte		Qualifier	(GC) RL	МП	Unit	D	Prepared	Analyzod	Dil I
Gasoline Range Organics			49.9	MDL	mg/Kg		12/15/22 15:21	Analyzed 12/18/22 03:56	
(GRO)-C6-C10	~45.5	0	49.9		mg/rtg		12/13/22 13.21	12/10/22 03:30	
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 03:56	
C10-C28) Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 03:56	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil
1-Chlorooctane	121	~ /	70 - 130				12/15/22 15:21	12/18/22 03:56	
o-Terphenyl	136	S1+	70 - 130				12/15/22 15:21	12/18/22 03:56	
Method: MCAWW 300.0 - Anions	, Ion Chromato	graphy - So	oluble						
Analyte	1	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Chloride	95.4		4.99		mg/Kg			12/22/22 23:17	
lient Comple ID: CM/ 2							Lob Corro	nlo ID: 000 0	GAA -
Client Sample ID: SW-3 Pate Collected: 12/13/22 12:00 Pate Received: 12/13/22 13:37							Lad Sam	ple ID: 890-3 Matri	044-' x: Sol
	• • •								
Method: SW846 8021B - Volatile					11	_	Drenewsd	A	<b>D</b> 11 <b>P</b>
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Benzene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 23:02	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 23:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 23:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 23:02	1

# **Client Sample Results**

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Matrix: Solid

5

Job ID: 890-3644-1 SDG: Eddy County NM

Lab Sample ID: 890-3644-11

# Client Sample ID: SW-3

Client: NT Global

Project/Site: Asteroid

Date Collected: 12/13/22 12:00 Date Received: 12/13/22 13:37

Surragate         SkRecovery 103         Quelifier 103         Limits 70.130         Prepared 122222 11:12         Analyzed 122422 302         Diff 122222 11:12         Diff 1222622 15:91         Diff           Method:         TCA         Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed         Diff           Method:         SW846 8015 NM - Diesol Range Organics (DRO) (GC)         NDL         Unit         D         Prepared         Analyzed         Diff           Analyte         Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed         Diff           Sacoline Range Organics         (Over         <50.0         U         50.0         mg/Kg         12/15/22 15/21         12/18/22 04:39         Diff           Sacoline Range Organics (Over         <50.0         U         50.0         mg/Kg         12/15/22 15/21         12/18/22 04:39         Diff           Surrogate         Sifecovery         Qualifier         Limits	o-Xylene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 23:02	
#Granohuorobenzene (Surr)       103       70 - 130       122222 11:12       122222 11:12       122422 23:02         4.4-Difluorobenzene (Surr)       106       70 - 130       122222 11:12       122422 23:02         Method: TAL SOP Total BTEX - Total BTEX Calculation       naniye       Result Qualifier       RL       MDL       Unit       D       Prepared       Analyzed       DI I         Inalyee       Result Qualifier       RL       MDL       Unit       D       Prepared       Analyzed       DI I         Ranityee       Result Qualifier       RL       MDL       Unit       D       Prepared       Analyzed       DI II         Ranityee       Result Qualifier       RL       MDL       Unit       D       Prepared       Analyzed       DI II         Samoline Range Organics       (ORO) - 60.0       mg/kg       12/15/22 15:21       12/18/22 04:39       DI II         GRO: 0-0-0       mg/kg       12/15/22 15:21       12/18/22 04:39       DI II       12/15/22 15:21       12/18/22 04:39       DI II         Surrogate       : KRecovery       Qualifier       Limits       T/2/15/22 15:21       12/18/22 04:39       DI II         Surrogate       : KRecovery       Qualifier       Limits       MDL	Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/22/22 11:12	12/24/22 23:02	
1,4-Diffuonchemzene (Surr)       106       70 - 130       12/22/21/1/2       12/24/22 23:02         Method: TAL SOP Total BTEX - Total BTEX Calculation       Result Qualifier       RL       MDL       Unit       D       Prepared       Analyzed       Dil I         Snight ETEX       -0.00396       0.00396       mg/Kg       D       Prepared       Analyzed       Dil I         Snight ETEX       -0.00396       0.00396       mg/Kg       D       Prepared       Analyzed       Dil I         Nuthod: SW846 8015B NM - Diesel Range Organics (DRO) (GC)       Result       Qualifier       RL       MDL       Unit       D       Prepared       Analyzed       Dil I         Sadoline Range Organics (Over       <50.0	Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Method: TAL SOP Total BTEX - Total BTEX Calculation         Number of the second s	4-Bromofluorobenzene (Surr)	103		70 - 130				12/22/22 11:12	12/24/22 23:02	
Analyse         Result         Qualifier         RL         MDL         Unit         D         Prepared         Analysed         Dil /           Ital ETEX         <0.00398	1,4-Difluorobenzene (Surr)	106		70 - 130				12/22/22 11:12	12/24/22 23:02	
Total BTEX         <0.00398         U         0.00398         mg/kg         1228/22 15:59           Method:         SW846 8015 NM - Diesel Range Organics (DRO) (GC)         NDL         Unit         D         Prepared         Analyzed         DI I           Intel TPH          650.0         U         50.0         MDL         Unit         D         Prepared         Analyzed         DI I           Method:         SW846 8015E NM - Diesel Range Organics (DRO) (GC)         NDL         Unit         D         Prepared         Analyzed         DII I           Samoline Range Organics (Over         <60.0	Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Method:         SW846 8015 NM - Diesel Range Organics (DRO) (GC)         MDL         Unit         D         Prepared         Analyzed         DI F           Total TPH         < 50.0	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte         Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed         Dil I           Fold TPH         <50.0	Total BTEX	<0.00398	U	0.00398		mg/Kg			12/26/22 15:59	
Total TPH            Solo         mg/kg         12/19/22 15:35           Method:         SW846 8015B NM - Diesel Range Organics (DRO) (GC)         Mult         Mult         D         Prepared         Analyzed         Di I / Solo           Sasoline Range Organics (GNO-GC-10)         GSO.0         U         50.0         mg/kg         12/15/22 15:21         12/18/22 04:39         Di I / Solo           Olicocal Range Organics (Over         <50.0	Method: SW846 8015 NM - Die	esel Range Organ	ics (DRO) (	GC)						
Method:         SWe b         End         Mg/rg         Prepared         Analyzed         Dif           Sasoline Range Organics         Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed         Dif           Sasoline Range Organics         < 50.0	Analyte				MDL	Unit	D	Prepared		Dil Fa
Analyte         Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed         Dil I           GRO):G6:C10         50.0         U         50.0         mg/Kg         12/15/22 15:21         12/18/22 04:39         12/15/22 15:21         12/18/22 04:39           C10-C28)         OII Range Organics (Over C28-C36)         <50.0	īotal TPH	<50.0	U	50.0		mg/Kg			12/19/22 15:35	
Basoline Range Organics         <50.0         U         50.0         mg/kg         12/15/22         12/15/22         12/12/22/22	Method: SW846 8015B NM - D	Diesel Range Orga	nics (DRO)	(GC)						
GRO-C6-C10         mg/Kg         12/15/22 15:21         12/18/22 04:39           Diesel Range Organics (Over         <50.0	•		-		MDL		D			Dil F
210-C28) Dil Range Organics (Over C28-C36)       <0.0		<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/18/22 04:39	
Dill Range Organics (Over C28-C36)       < 50.0       mg/Kg       12/15/22 15.21       12/18/22 04:39         Surrogate       %Recovery       Qualifier       Limits       Prepared       Analyzed       Dill /         1-Chlorooctane       85       70.130       12/15/22 15:21       12/18/22 04:39       Dill /         1-Chlorooctane       85       70.130       12/15/22 15:21       12/18/22 04:39       Dill /         Nethod: MCAWW 300.0 - Anions, Ion Chromatography - Soluble       Nalyte       Result       Qualifier       RL       MDL       Unit       D       Prepared       Analyzed       Dill /         Chloride       165       F1       4.98       mg/Kg       D       Prepared       Analyzed       Dill /         Chloride       165       F1       4.98       mg/Kg       D       Prepared       Analyzed       Dill /         Liber Sample ID: SW-4       Lab Sample ID: 880-3644-       Matrix: So       Matrix: So         tet Received: 12/13/22 13:37       Numarkg       Mg/Kg       12/22/22 11:12       12/24/22 23:22       Dill /         Senzene       <0.00200		<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/18/22 04:39	
Chlorooctane         85         70 - 130         12/15/22 15:21         12/18/22 04:39           -Terphenyl         94         70 - 130         12/15/22 15:21         12/18/22 04:39           Aethod: MCAWW 300.0 - Anions, Ion Chromatography - Soluble unalyte         Result Qualifier         RL         MDL         D         Prepared         Analyzed         Dil F           Chlorooctane         165         F1         4.98         mg/Kg         2         2/2/22 23:26         Dil F           Chorooctane         165         F1         4.98         mg/Kg         2         Prepared         Analyzed         Dil F           Chorooctane         12/13/22 12:00         Kasult         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed         Dil F           Verthed:         Starple ID: SW-4         Kasult         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed         Dil F           Verther         Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed         Dil F           Verther         Result         Qualifier         RL         MDL         Unit         D         Qualifier	,	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/18/22 04:39	
Part Propertion         94         70 - 130         12/15/22 15:21         12/18/22 04:39           Method:         MCAWW 300.0 - Anions, Ion Chromatography - Soluble vanyte         Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed         Dil F           Schoride         165         F1         4.98         mg/Kg         D         Prepared         Analyzed         Dil F           Vient Sample ID:         SW-4         te         Collected:         12/13/22 12:00         Matrix: So           Method:         SW846 8021B - Volatile Organic Compounds (GC)         Malyte         Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed         Dil F           Solutione         <0.00200	Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
Method:         MCAWW 300.0 - Anions, Ion Chromatography - Soluble         ML         Unit         D         Prepared         Analyzed         DII F           Schloride         165         F1         4.98         mg/Kg         D         Prepared         Analyzed         DII F           Lient Sample ID:         SW-4         Lab Sample ID: 890-3644-4         Lab Sample ID: 890-3644-4         Matrix: So           Lient Sample ID:         SW-4         Lab Sample ID: 890-3644-4         Matrix: So           Method:         SW846 8021B - Volatile Organic Compounds (GC)         Matrix: So         Mol         Unit         D         Prepared         Analyzed         DII F           Jenzene         <0.00200	-Chlorooctane	85		70 - 130				12/15/22 15:21	12/18/22 04:39	
Analyte         Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed         DII F           Chloride         165         F1         4.98         mg/Kg         D         Prepared         Analyzed         DII F           Lilent Sample ID: SW-4 ate Collected: 12/13/22 12:00         Lab Sample ID: 890-3644-7         Matrix: So           Method: SW846 8021B - Volatile Organic Compounds (GC)         Malyte         Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed         DII F           Senzene         <0.00200	p-Terphenyl	94		70 - 130				12/15/22 15:21	12/18/22 04:39	
Chloride         165         F1         4.98         mg/Kg         12/22/2 23:26           Lient Sample ID: SW-4 ate Collected: 12/13/22 12:00         Lab Sample ID: 890-3644-' Matrix: So           Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte         Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed         Dil F           Senzene         <0.00200		ana lan Chromata	ography - S	oluble						
Lab Sample ID: SW-4 ate Collected: 12/13/22 12:00 ate Received: 12/13/22 13:37         Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte       Result Qualifier       RL       MDL       Unit       D       Prepared       Analyzed       Dil F         Benzene       < 0.00200       U       0.00200       mg/Kg       12/22/22 11:12       12/22/22 3:22       Dil F         Toluene       < 0.00200       U       0.00200       mg/Kg       12/22/22 11:12       12/24/22 23:22       Dil F         Ethylbenzene       < 0.00200       U       0.00200       mg/Kg       12/22/22 11:12       12/24/22 23:22         Sylene       < 0.00200       U       0.00200       mg/Kg       12/22/22 11:12       12/24/22 23:22         Sylenes       < 0.00200       U       0.00200       mg/Kg       12/22/22 11:12       12/24/22 23:22         Sylenes, Total       < 0.00200       U       0.00399       mg/Kg       12/22/22 11:12       12/24/22 23:22         Surrogate           Cualifier       Limits        Prepared       Analyzed       Dil I         4-Bromofluorobenzene (Surr)       107       70 - 130	Method: MCAWW 300.0 - Anic	ons, ion chromate	5 1 5	olubic						
Matrix: So         Mothod: SW846 8021B - Volatile Organic Compounds (GC)         Matrix: So         Mothod: SW846 8021B - Volatile Organic Compounds (GC)         Matrix: You         Mothod: SW846 8021B - Volatile Organic Compounds (GC)         Matrix: You         Mothod: SW846 8021B - Volatile Organic Compounds (GC)         Matrix: You         Prepared       Analyzed       Mile         Matrix: You         Note on thowe wight on the		Result	Qualifier	RL	MDL		<u>D</u>	Prepared		Dil F
Arate Received: 12/13/22 13:37         Method: SW846 8021B - Volatile Organic Compounds (GC)         Analyte       Result       Qualifier       RL       MDL       Unit       D       Prepared       Analyzed       Dil F         Benzene       <0.00200	Analyte	Result	Qualifier	RL	MDL		<u> </u>	Prepared		Dil F
Method:         SW846 8021B - Volatile Organic Compounds (GC)           Analyte         Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed         Dil F           Benzene         <0.00200	Analyte Chloride lient Sample ID: SW-4	Result	Qualifier	RL	MDL		<u> </u>		12/22/22 23:26	
Analyte         Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed         Dil F           Banzene         <0.00200	Analyte Chloride lient Sample ID: SW-4 ate Collected: 12/13/22 12:00	Result	Qualifier	RL	MDL		<u> </u>		12/22/22 23:26	644-1
Toluene       <0.00200	Analyte Chloride lient Sample ID: SW-4 ate Collected: 12/13/22 12:00 ate Received: 12/13/22 13:37	Result 165	Qualifier F1	4.98	MDL		<u> </u>		12/22/22 23:26	644-1
Ethylbenzene       <0.00200	Analyte Chloride lient Sample ID: SW-4 ate Collected: 12/13/22 12:00 ate Received: 12/13/22 13:37 Method: SW846 8021B - Volat	Result 165	Qualifier F1	RL		mg/Kg		Lab Sam	12/22/22 23:26 ple ID: 890-3 Matri	644-1 x: Sol
n-Xylene & p-Xylene       <0.00399	Analyte Chloride lient Sample ID: SW-4 ate Collected: 12/13/22 12:00 ate Received: 12/13/22 13:37 Method: SW846 8021B - Volat Analyte	Result	Qualifier F1 ounds (GC Qualifier	RL		mg/Kg		Lab Sam	12/22/22 23:26 ple ID: 890-3 Matri Analyzed	644-1
-Xylene       <0.00200	Analyte Chloride lient Sample ID: SW-4 ate Collected: 12/13/22 12:00 ate Received: 12/13/22 13:37 Method: SW846 8021B - Volati Analyte Benzene	Result Companic Comp Result								

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Released to Imaging: 5/23/2023 8:36:59 AM

# **Client Sample Results**

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Matrix: Solid

Job ID: 890-3644-1 SDG: Eddy County NM

Lab Sample ID: 890-3644-12

# **Client Sample ID: SW-4**

Client: NT Global

Project/Site: Asteroid

Date Collected: 12/13/22 12:00

Date	Received:	12/13/22	13:37
-			

Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0		mg/Kg			12/19/22 15:35	
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/18/22 05:01	
(GRO)-C6-C10					0 0				
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/18/22 05:01	
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/18/22 05:01	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
1-Chlorooctane	127		70 _ 130				12/15/22 15:21	12/18/22 05:01	
o-Terphenyl	137	S1+	70 - 130				12/15/22 15:21	12/18/22 05:01	
Method: MCAWW 300.0 - Anions	lon Chromato	aranhy - S	olublo						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Chloride	5.80		4.97		mg/Kg			12/22/22 23:52	
lient Sample ID: SW-5							Lab Sam	ple ID: 890-3	<b>644-</b> 1
ate Collected: 12/13/22 12:00								Matri	ix: Sol
ate Received: 12/13/22 13:37									
			_						
Method: SW846 8021B - Volatile Analyte	• •	ounds (GC) Qualifier	) RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Benzene			0.00199		mg/Kg	<u>-</u>	12/22/22 11:12	12/24/22 23:43	
Toluene	<0.00199		0.00199		mg/Kg		12/22/22 11:12	12/24/22 23:43	
	<0.00199		0.00199				12/22/22 11:12	12/24/22 23:43	
Ethylbenzene	<0.00199		0.00398		mg/Kg		12/22/22 11:12	12/24/22 23:43	
n-Xylene & p-Xylene					mg/Kg				
o-Xylene	< 0.00199		0.00199		mg/Kg		12/22/22 11:12	12/24/22 23:43	
Kylenes, Total	<0.00398	0	0.00398		mg/Kg		12/22/22 11:12	12/24/22 23:43	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
4-Bromofluorobenzene (Surr)	111		70 - 130				12/22/22 11:12	12/24/22 23:43	
1,4-Difluorobenzene (Surr)	109		70 - 130				12/22/22 11:12	12/24/22 23:43	
Method: TAL SOP Total BTEX - 1	Total BTEX Cal	sulation							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Fotal BTEX	<0.00398		0.00398		mg/Kg			12/26/22 15:59	
					5 5				
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Total TPH	<49.9	U	49.9		mg/Kg			12/19/22 15:35	
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(60)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 05:23	
GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 05:23	
C10-C28)									
	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 05:23	
Dil Range Organics (Over C28-C36)									
Oll Range Organics (Over C28-C36) Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F

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		Clien	nt Sample R	lesults	;				
Client: NT Global								Job ID: 890	-3644-1
Project/Site: Asteroid								SDG: Eddy Co	unty NN
Client Sample ID: SW-5							Lab Sam	ple ID: 890-3	644-13
Date Collected: 12/13/22 12:00								-	ix: Solic
Date Received: 12/13/22 13:37									
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC) (Continue	ed)					
Surrogate	%Recovery		Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	118		70 - 130				12/15/22 15:21	12/18/22 05:23	
-									
Method: MCAWW 300.0 - Anions						_	<b>_</b> .		
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Chloride	14.6		4.96		mg/Kg			12/23/22 00:00	1
Client Sample ID: SW-6							Lab Sam	ple ID: 890-3	644-14
Date Collected: 12/13/22 12:00								-	ix: Solid
Date Received: 12/13/22 13:37									
			、 						
Method: SW846 8021B - Volatile Analyte	• •	ounds (GC Qualifier	) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200		0.00200	MDL	mg/Kg		12/22/22 11:12	Analyzed 12/25/22 00:03	
Toluene	<0.00200		0.00200		mg/Kg		12/22/22 11:12	12/25/22 00:03	
Ethylbenzene	< 0.00200		0.00200		mg/Kg		12/22/22 11:12	12/25/22 00:03	
m-Xylene & p-Xylene	<0.00399		0.00399		mg/Kg		12/22/22 11:12	12/25/22 00:03	
o-Xylene	<0.00200		0.00200		mg/Kg		12/22/22 11:12	12/25/22 00:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/22/22 11:12	12/25/22 00:03	1
Summe mede	% Decovery	Qualifian	l inside				Dronorod	Analyzad	
Surrogate 4-Bromofluorobenzene (Surr)	% <b>Recovery</b> 103	Qualifier					Prepared 12/22/22 11:12	Analyzed 12/25/22 00:03	Dil Fac
1,4-Difluorobenzene (Surr)	105		70 <u>-</u> 130				12/22/22 11:12	12/25/22 00:03	1
-									
Method: TAL SOP Total BTEX - T	otal BTEX Calo	culation							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/26/22 15:59	1
- Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (	GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9		49.9		mg/Kg			12/19/22 15:35	1
•									
Method: SW846 8015B NM - Dies									
Analyte		Qualifier		MDL		D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 05:44	1
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 05:44	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 05:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130				12/15/22 15:21	12/18/22 05:44	1
o-Terphenyl	122		70 - 130				12/15/22 15:21	12/18/22 05:44	1
Method: MCAWW 300.0 - Anions	Ion Chromoto	aranhy 6	olublo						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
· · <b>· · ·</b> · ·	riooun								2

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Chloride
 <4.98</td>
 U
 4.98
 mg/Kg
 D
 Prepared
 Analyzed
 Dil Fac

# **Client Sample Results**

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Matrix: Solid

Job ID: 890-3644-1 SDG: Eddy County NM

Lab Sample ID: 890-3644-15

## Client Sample ID: SW-7 Date Collected: 12/13/22 12:00

Client: NT Global

Project/Site: Asteroid

Date Received: 12/13/22 13:37

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/25/22 00:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/25/22 00:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/25/22 00:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/22/22 11:12	12/25/22 00:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/25/22 00:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/22/22 11:12	12/25/22 00:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				12/22/22 11:12	12/25/22 00:23	1
1,4-Difluorobenzene (Surr)	109		70 - 130				12/22/22 11:12	12/25/22 00:23	1
Method: TAL SOP Total BTEX - 1	Total BTEX Calo	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398		mg/Kg			12/26/22 15:59	1
	el Range Organ				iiig/itg			12/20/22 13:33	·
Method: SW846 8015 NM - Diese Analyte	Result	ics (DRO) ( Qualifier	GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	Result <50.0	<mark>ics (DRO) (</mark> Qualifier U	GC) 	MDL		<u>D</u>	Prepared		Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	Result <50.0	ics (DRO) ( Qualifier U	GC) 	MDL	Unit		Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result <50.0 sel Range Orga Result	ics (DRO) ( Qualifier U unics (DRO) Qualifier	GC) 		Unit mg/Kg Unit	D	Prepared	Analyzed 12/19/22 15:35 Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <50.0	ics (DRO) ( Qualifier U unics (DRO) Qualifier	GC) <u>RL</u> 50.0		Unit mg/Kg			Analyzed	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 sel Range Orga Result	ics (DRO) ( Qualifier U mics (DRO) Qualifier U	GC) 		Unit mg/Kg Unit		Prepared	Analyzed 12/19/22 15:35 Analyzed	1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <sol> <li>Result</li> <li>&lt;50.0</li> <li>Range Orga</li> <li>Result</li> <li>&lt;50.0</li> </sol>	ics (DRO) ( Qualifier U mics (DRO) Qualifier U	GC) RL 50.0 (GC) RL 50.0		Unit mg/Kg Unit mg/Kg		Prepared 12/15/22 15:21	Analyzed 12/19/22 15:35 Analyzed 12/18/22 06:06	1 Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result           <50.0	ics (DRO) ( Qualifier U mics (DRO) Qualifier U U U	GC) RL 50.0 (GC) RL 50.0 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/15/22 15:21 12/15/22 15:21	Analyzed 12/19/22 15:35 Analyzed 12/18/22 06:06 12/18/22 06:06	1 1 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result           <50.0	ics (DRO) ( Qualifier U mics (DRO) Qualifier U U	GC) RL 50.0 (GC) RL 50.0 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/15/22 15:21 12/15/22 15:21 12/15/22 15:21	Analyzed 12/19/22 15:35 Analyzed 12/18/22 06:06 12/18/22 06:06 12/18/22 06:06	1 Dil Fac 1 1 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result           <50.0	ics (DRO) ( Qualifier U mics (DRO) Qualifier U U	GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/15/22 15:21 12/15/22 15:21 12/15/22 15:21 12/15/22 15:21 Prepared	Analyzed 12/19/22 15:35 Analyzed 12/18/22 06:06 12/18/22 06:06 12/18/22 06:06 Analyzed	1 Dil Fac 1 1 1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result           <50.0	ics (DRO) ( Qualifier U mics (DRO) Qualifier U U U Qualifier S1+	GC) RL 50.0 (GC) RL 50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/15/22 15:21 12/15/22 15:21 12/15/22 15:21 Prepared 12/15/22 15:21	Analyzed 12/19/22 15:35 Analyzed 12/18/22 06:06 12/18/22 06:06 12/18/22 06:06 Analyzed 12/18/22 06:06	1 Dil Fac 1 1 1 1 1 Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result           <50.0	ics (DRO) ( Qualifier U mics (DRO) Qualifier U U U Qualifier S1+	GC) RL 50.0 (GC) RL 50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130	MDL	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/15/22 15:21 12/15/22 15:21 12/15/22 15:21 Prepared 12/15/22 15:21	Analyzed 12/19/22 15:35 Analyzed 12/18/22 06:06 12/18/22 06:06 12/18/22 06:06 Analyzed 12/18/22 06:06	1 Dil Fac 1 1 1 1 1 Dil Fac 1

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# **Surrogate Summary**

Client: NT Global Project/Site: Asteroid

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

-				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3644-1	CS-1	102	106	
890-3644-1 MS	CS-1	103	109	
890-3644-1 MSD	CS-1	100	104	
890-3644-2	CS-2	107	110	
890-3644-3	CS-2	102	107	
890-3644-4	CS-3	105	107	
890-3644-5	CS-3	107	108	
890-3644-6	CS-4	107	108	
890-3644-7	CS-5	112	111	
890-3644-8	CS-6	106	102	
890-3644-9	SW-1	104	107	
890-3644-10	SW-2	248 S1+	257 S1+	
890-3644-11	SW-3	103	106	
890-3644-12	SW-4	109	107	
890-3644-13	SW-5	111	109	
890-3644-14	SW-6	103	105	
890-3644-15	SW-7	106	109	
LCS 880-42504/1-A	Lab Control Sample	98	103	
LCSD 880-42504/2-A	Lab Control Sample Dup	99	107	
MB 880-42504/5-A	Method Blank	95	103	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

_				P	erc	ercent Surrog	ercent Surrogate Rec	ercent Surrogate Recovery	ercent Surrogate Recovery (Accep	ercent Surrogate Recovery (Acceptance L	ercent Surrogate Recovery (Acceptance Limits)	ercent Surrogate Recovery (Acceptance Limits)	ercent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	)									
890-3644-1	CS-1	121	136 S1+	+									
890-3644-1 MS	CS-1	104	104										
890-3644-1 MSD	CS-1	104	103										
890-3644-2	CS-2	105	104										
890-3644-3	CS-2	129	143 S1+	۲									
890-3644-4	CS-3	107	118										
890-3644-5	CS-3	122	135 S1+	+									
890-3644-6	CS-4	109	122										
890-3644-7	CS-5	120	136 S1+	F									
890-3644-8	CS-6	117	128										
890-3644-9	SW-1	116	129										
890-3644-10	SW-2	121	136 S1+	۲									
890-3644-11	SW-3	85	94										
890-3644-12	SW-4	127	137 S1+	۲									
890-3644-13	SW-5	106	118										
890-3644-14	SW-6	110	122										
890-3644-15	SW-7	125	140 S1+	۲									
LCS 880-41942/2-A	Lab Control Sample	109	118										
LCSD 880-41942/3-A	Lab Control Sample Dup	108	118										

Prep Type: Total/NA

Prep Type: Total/NA

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# **Surrogate Summary**

		Surrogat	te Sum	mary	
Client: NT Global Project/Site: Asteroid				Job ID: 890-3644-1 SDG: Eddy County NM	2
Method: 8015B NN Matrix: Solid	I - Diesel Range Organ	ics (DRO) (GC	:) (Contii	nued) Prep Type: Total/NA	
				Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID MB 880-41942/1-A	Client Sample ID Method Blank	1CO1 (70-130) 126	OTPH1 (70-130) 142 S1+		5
Surrogate Legend		120	142 31+		6
1CO = 1-Chlorooctane OTPH = o-Terphenyl					7
					8
					9
					13

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Client: NT Global

# **QC Sample Results**

**Client Sample ID: Method Blank** 

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 42504

# Project/Site: Asteroid Method: 8021B - Volatile Organic Compounds (GC)

			0	-	-	
Lab Sample ID: MB	880-42	2504/	5-A			

Matrix: Solid Analysis Batch: 42591								Prep Type: 1 Prep Batch	
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 17:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 17:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 17:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/22/22 11:12	12/24/22 17:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 17:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/22/22 11:12	12/24/22 17:39	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				12/22/22 11:12	12/24/22 17:39	1
1,4-Difluorobenzene (Surr)	103		70 - 130				12/22/22 11:12	12/24/22 17:39	1

#### Lab Sample ID: LCS 880-42504/1-A Matrix: Solid

### Analysis Batch: 42591

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09539		mg/Kg		95	70 - 130	
Toluene	0.100	0.09169		mg/Kg		92	70 - 130	
Ethylbenzene	0.100	0.09200		mg/Kg		92	70 - 130	
m-Xylene & p-Xylene	0.200	0.1929		mg/Kg		96	70 - 130	
o-Xylene	0.100	0.09265		mg/Kg		93	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

### Lab Sample ID: LCSD 880-42504/2-A

## Matrix: Solid

Analysis Batch: 42591							Prep	Batch:	42504
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09628		mg/Kg		96	70 - 130	1	35
Toluene	0.100	0.09162		mg/Kg		92	70 - 130	0	35
Ethylbenzene	0.100	0.09189		mg/Kg		92	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1928		mg/Kg		96	70 - 130	0	35
o-Xylene	0.100	0.09194		mg/Kg		92	70 - 130	1	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

# Lab Sample ID: 890-3644-1 MS

#### Matrix: Solid Prep Type: Total/NA Analysis Batch: 42591 Prep Batch: 42504 MS MS Sample Sample Spike %Rec Result Qualifier Added Analyte **Result Qualifier** Unit D %Rec Limits <0.00201 U F1 0.0998 92 70 - 130 Benzene 0.09157 mg/Kg Toluene <0.00201 UF1 0.0998 0.08420 mg/Kg 84 70 - 130

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**Client Sample ID: CS-1** 

# Client Sample ID: Lab Control Sample Dup

Released to Imaging: 5/23/2023 8:36:59 AM

Client: NT Global

# **QC Sample Results**

Job ID: 890-3644-1 SDG: Eddy County NM

# Project/Site: Asteroid

Lab Sample ID: 890-3644-1 MS									Client Sa	mple ID:	: CS-1
Matrix: Solid									Prep T	ype: To	tal/NA
Analysis Batch: 42591									Prep	Batch:	42504
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ethylbenzene	<0.00201	U F1 F2	0.0998	0.08275		mg/Kg		83	70 - 130		
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.200	0.1737		mg/Kg		87	70 - 130		
o-Xylene	<0.00201	U F1 F2	0.0998	0.08337		mg/Kg		83	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	103		70 - 130								
1,4-Difluorobenzene (Surr)	109		70 - 130								
Lab Sample ID: 890-3644-1 MSE	)								Client Sa	mple ID:	: CS-
Matrix: Solid										ype: To	
Analysis Batch: 42591										Batch:	
-	Sample	Sample	Spike	MSD	MSD				%Rec		RP
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Benzene	<0.00201	U F1	0.100	0.06924	F1	mg/Kg		69	70 - 130	28	3
Toluene	<0.00201	U F1	0.100	0.05936	F1	mg/Kg		59	70 - 130	35	3
Ethylbenzene	<0.00201	U F1 F2	0.100	0.05410	F1 F2	mg/Kg		54	70 - 130	42	3
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.201	0.1135	F1 F2	mg/Kg		57	70 - 130	42	3
o-Xylene	<0.00201	U F1 F2	0.100	0.05532	F1 F2	mg/Kg		55	70 - 130	40	3
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	100		70 - 130								
1,4-Difluorobenzene (Surr)	104		70 - 130								
lethod: 8015B NM - Diesel	Range O	rganics (E	ORO) (GC)								
Lab Sample ID: MB 880-41942/1			,,,,,					Client S	Sample ID:	Method	Blan
Matrix: Solid										ype: To	
Analysis Batch: 42078										Batch:	

#### MB MB Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <50.0 U 50.0 12/15/22 15:21 12/17/22 22:54 Gasoline Range Organics mg/Kg 1 (GRO)-C6-C10 Diesel Range Organics (Over 50.0 12/15/22 15:21 12/17/22 22:54 <50.0 U mg/Kg 1 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 12/15/22 15:21 12/17/22 22:54 1 MB MB %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed 1-Chlorooctane 126 70 - 130 12/15/22 15:21 12/17/22 22:54 1

70 - 130

142 S1+

Lab Sample ID: LCS 880-41942/2-A Matrix: Solid Analysis Batch: 42078					Client	Sample	ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 41942
	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10	1000	848.4		mg/Kg		85	70 - 130
Diesel Range Organics (Over	1000	1024		mg/Kg		102	70 - 130

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12/17/22 22:54

12/15/22 15:21

o-Terphenyl

C10-C28)

Lab Sample ID: LCS 880-41942/2-A

# **QC Sample Results**

### Job ID: 890-3644-1 SDG: Eddy County NM

**Client Sample ID: Lab Control Sample** 

Client: NT Global Project/Site: Asteroid

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

Matrix: Solid Analysis Batch: 42078										ype: Tot Batch: 4	
Analysis Daten. 42070	1.05	LCS							Пер	Daten.	
Surrogate	%Recovery		Limits								
1-Chlorooctane	109	Quaimer	70 - 130								
o-Terphenyl	118		70 - 130 70 - 130								
	110		70 - 750								
Lab Sample ID: LCSD 880-41942	/ <b>3-A</b>					Clie	nt San	nple ID:	Lab Contro	Sample	e Dup
Matrix: Solid										· ype: Tot	
Analysis Batch: 42078										Batch:	
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	831.8		mg/Kg		83	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1011		mg/Kg		101	70 - 130	1	20
	LCSD	LCSD									
Surrogate	%Recovery		Limits								
1-Chlorooctane	108		70 - 130								
o-Terphenyl	118		70 - 130								
Lab Sample ID: 890-3644-1 MS									Client Sa	mple ID:	CS-1
Matrix: Solid									Prep T	ype: Tot	tal/NA
Analysis Batch: 42078									Prep	Batch:	41942
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<50.0	U	999	954.0		mg/Kg		93	70 - 130		
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U	999	1159		mg/Kg		114	70 - 130		
C10-C28)											
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	104		70 - 130								
o-Terphenyl	104		70 - 130								
Lab Sample ID: 890-3644-1 MSD									Client Sa	-	
Matrix: Solid										ype: Tot	
Analysis Batch: 42078										Batch:	
		Sample	Spike		MSD				%Rec		RPD
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0		997	1038		mg/Kg		102	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1144		mg/Kg		113	70 - 130	1	20
		MCD									
	MSD	WSD									
Surrogate	MSD %Recovery		Limits								
Surrogate			Limits 70 - 130								

Client: NT Global

Project/Site: Asteroid

### Job ID: 890-3644-1 SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-41925/1-A	L .							Client	Sample ID: N		
Matrix: Solid									Prep 1	Type: S	olubl
Analysis Batch: 42330											
		MB MB									
Analyte	R	esult Qualifier		RL	MDL Unit		<u>D</u>	Prepared	Analyze	d	Dil Fa
Chloride	<	<5.00 U	5	5.00	mg/K	ζg			12/22/22 2	0:57	
Lab Sample ID: LCS 880-41925/2-	A						Clier	nt Sample	e ID: Lab Co	ntrol S	ampl
Matrix: Solid										Type: S	
Analysis Batch: 42330											
			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride			250	268.0		mg/Kg		107	90 - 110		
Lab Sample ID: LCSD 880-41925/3	R_A					CI	iont Sa	mole ID:	Lab Control	Sampl	
Matrix: Solid						01		inple ib.		-	
Analysis Batch: 42330									Frep	Type: S	Jub
Allarysis Daluli. 42330			Spike	1.000	LCSD				%Rec		RP
Analysis						11		% Dee			
Analyte			Added		Qualifier	Unit	D		Limits	RPD	Lim
Chloride			250	266.1		mg/Kg		106	90 - 110	1	2
Lab Sample ID: 890-3644-1 MS									Client San	nple ID	: CS
Matrix: Solid										· Type: S	
Analysis Batch: 42330											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	22.7	F1	252	315.0	F1	mg/Kg		116	90 - 110		
Lab Sample ID: 890-3644-1 MSD									Client San	nnle ID	· cs.
Matrix: Solid										Type: S	
Analysis Batch: 42330										<b>,</b> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	orabi
Analysis Baten. 42000	Sample	Sample	Spike	MSD	MSD				%Rec		RP
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Chloride	22.7		252	314.0		mg/Kg		116	90 - 110	0	2
Lab Cample ID: 900-2044-44 MC									Client Com		0.144
Lab Sample ID: 890-3644-11 MS									Client Sam	-	
Matrix: Solid									Prep	Type: S	dub
Analysis Batch: 42330	Commit-	Sample	Calles	W0	ме				% Doo		
Amelia		Sample	Spike		MS	11	-	0/ <b>-</b>	%Rec		
Analyte		Qualifier	Added		Qualifier	Unit	D		Limits		
Chloride	165	⊢1	249	505.8	⊢1	mg/Kg		137	90 - 110		
Lab Sample ID: 890-3644-11 MSD									Client Sam	ple ID:	SW-
Matrix: Solid									Prep 1	Type: S	olub
Analysis Batch: 42330											
	-	Sample	Spike		MSD				%Rec		RP
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limi
	165			484.9		mg/Kg		129	90 - 110	4	2

Client: NT Global Project/Site: Asteroid

## Prep Batch: 42504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3644-1	CS-1	Total/NA	Solid	5035	
890-3644-2	CS-2	Total/NA	Solid	5035	
890-3644-3	CS-2	Total/NA	Solid	5035	
890-3644-4	CS-3	Total/NA	Solid	5035	
890-3644-5	CS-3	Total/NA	Solid	5035	
890-3644-6	CS-4	Total/NA	Solid	5035	
890-3644-7	CS-5	Total/NA	Solid	5035	
890-3644-8	CS-6	Total/NA	Solid	5035	
890-3644-9	SW-1	Total/NA	Solid	5035	
890-3644-10	SW-2	Total/NA	Solid	5035	
890-3644-11	SW-3	Total/NA	Solid	5035	
890-3644-12	SW-4	Total/NA	Solid	5035	
890-3644-13	SW-5	Total/NA	Solid	5035	
890-3644-14	SW-6	Total/NA	Solid	5035	
890-3644-15	SW-7	Total/NA	Solid	5035	
MB 880-42504/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42504/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42504/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3644-1 MS	CS-1	Total/NA	Solid	5035	
890-3644-1 MSD	CS-1	Total/NA	Solid	5035	

### Analysis Batch: 42591

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3644-1	CS-1	Total/NA	Solid	8021B	42504
890-3644-2	CS-2	Total/NA	Solid	8021B	42504
890-3644-3	CS-2	Total/NA	Solid	8021B	42504
890-3644-4	CS-3	Total/NA	Solid	8021B	42504
890-3644-5	CS-3	Total/NA	Solid	8021B	42504
890-3644-6	CS-4	Total/NA	Solid	8021B	42504
890-3644-7	CS-5	Total/NA	Solid	8021B	42504
890-3644-8	CS-6	Total/NA	Solid	8021B	42504
890-3644-9	SW-1	Total/NA	Solid	8021B	42504
890-3644-10	SW-2	Total/NA	Solid	8021B	42504
890-3644-11	SW-3	Total/NA	Solid	8021B	42504
890-3644-12	SW-4	Total/NA	Solid	8021B	42504
890-3644-13	SW-5	Total/NA	Solid	8021B	42504
890-3644-14	SW-6	Total/NA	Solid	8021B	42504
890-3644-15	SW-7	Total/NA	Solid	8021B	42504
MB 880-42504/5-A	Method Blank	Total/NA	Solid	8021B	42504
LCS 880-42504/1-A	Lab Control Sample	Total/NA	Solid	8021B	42504
LCSD 880-42504/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42504
890-3644-1 MS	CS-1	Total/NA	Solid	8021B	42504
890-3644-1 MSD	CS-1	Total/NA	Solid	8021B	42504

### Analysis Batch: 42603

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3644-1	CS-1	Total/NA	Solid	Total BTEX	
890-3644-2	CS-2	Total/NA	Solid	Total BTEX	
890-3644-3	CS-2	Total/NA	Solid	Total BTEX	
890-3644-4	CS-3	Total/NA	Solid	Total BTEX	
890-3644-5	CS-3	Total/NA	Solid	Total BTEX	

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## Job ID: 890-3644-1 SDG: Eddy County NM

Client: NT Global Project/Site: Asteroid

GC VOA (Continued)

## Analysis Batch: 42603 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3644-6	CS-4	Total/NA	Solid	Total BTEX	-
390-3644-7	CS-5	Total/NA	Solid	Total BTEX	
890-3644-8	CS-6	Total/NA	Solid	Total BTEX	
890-3644-9	SW-1	Total/NA	Solid	Total BTEX	
390-3644-10	SW-2	Total/NA	Solid	Total BTEX	
390-3644-11	SW-3	Total/NA	Solid	Total BTEX	
390-3644-12	SW-4	Total/NA	Solid	Total BTEX	
390-3644-13	SW-5	Total/NA	Solid	Total BTEX	
390-3644-14	SW-6	Total/NA	Solid	Total BTEX	
390-3644-15	SW-7	Total/NA	Solid	Total BTEX	

# GC Semi VOA

#### Prep Batch: 41942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3644-1	CS-1	Total/NA	Solid	8015NM Prep	
890-3644-2	CS-2	Total/NA	Solid	8015NM Prep	
890-3644-3	CS-2	Total/NA	Solid	8015NM Prep	
890-3644-4	CS-3	Total/NA	Solid	8015NM Prep	
890-3644-5	CS-3	Total/NA	Solid	8015NM Prep	
890-3644-6	CS-4	Total/NA	Solid	8015NM Prep	
890-3644-7	CS-5	Total/NA	Solid	8015NM Prep	
890-3644-8	CS-6	Total/NA	Solid	8015NM Prep	
890-3644-9	SW-1	Total/NA	Solid	8015NM Prep	
890-3644-10	SW-2	Total/NA	Solid	8015NM Prep	
890-3644-11	SW-3	Total/NA	Solid	8015NM Prep	
890-3644-12	SW-4	Total/NA	Solid	8015NM Prep	
890-3644-13	SW-5	Total/NA	Solid	8015NM Prep	
890-3644-14	SW-6	Total/NA	Solid	8015NM Prep	
890-3644-15	SW-7	Total/NA	Solid	8015NM Prep	
MB 880-41942/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41942/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41942/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3644-1 MS	CS-1	Total/NA	Solid	8015NM Prep	
890-3644-1 MSD	CS-1	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 42078

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3644-1	CS-1	Total/NA	Solid	8015B NM	41942
890-3644-2	CS-2	Total/NA	Solid	8015B NM	41942
890-3644-3	CS-2	Total/NA	Solid	8015B NM	41942
890-3644-4	CS-3	Total/NA	Solid	8015B NM	41942
890-3644-5	CS-3	Total/NA	Solid	8015B NM	41942
890-3644-6	CS-4	Total/NA	Solid	8015B NM	41942
890-3644-7	CS-5	Total/NA	Solid	8015B NM	41942
890-3644-8	CS-6	Total/NA	Solid	8015B NM	41942
890-3644-9	SW-1	Total/NA	Solid	8015B NM	41942
890-3644-10	SW-2	Total/NA	Solid	8015B NM	41942
890-3644-11	SW-3	Total/NA	Solid	8015B NM	41942
890-3644-12	SW-4	Total/NA	Solid	8015B NM	41942
890-3644-13	SW-5	Total/NA	Solid	8015B NM	41942

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Job ID: 890-3644-1

SDG: Eddy County NM

Client: NT Global Project/Site: Asteroid

# GC Semi VOA (Continued)

# Analysis Batch: 42078 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3644-14	SW-6	Total/NA	Solid	8015B NM	41942
890-3644-15	SW-7	Total/NA	Solid	8015B NM	41942
MB 880-41942/1-A	Method Blank	Total/NA	Solid	8015B NM	41942
LCS 880-41942/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41942
LCSD 880-41942/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41942
890-3644-1 MS	CS-1	Total/NA	Solid	8015B NM	41942
890-3644-1 MSD	CS-1	Total/NA	Solid	8015B NM	41942

#### Analysis Batch: 42227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3644-1	CS-1	Total/NA	Solid	8015 NM	
890-3644-2	CS-2	Total/NA	Solid	8015 NM	
890-3644-3	CS-2	Total/NA	Solid	8015 NM	
890-3644-4	CS-3	Total/NA	Solid	8015 NM	
890-3644-5	CS-3	Total/NA	Solid	8015 NM	
890-3644-6	CS-4	Total/NA	Solid	8015 NM	
890-3644-7	CS-5	Total/NA	Solid	8015 NM	
890-3644-8	CS-6	Total/NA	Solid	8015 NM	
890-3644-9	SW-1	Total/NA	Solid	8015 NM	
890-3644-10	SW-2	Total/NA	Solid	8015 NM	
890-3644-11	SW-3	Total/NA	Solid	8015 NM	
890-3644-12	SW-4	Total/NA	Solid	8015 NM	
890-3644-13	SW-5	Total/NA	Solid	8015 NM	
890-3644-14	SW-6	Total/NA	Solid	8015 NM	
890-3644-15	SW-7	Total/NA	Solid	8015 NM	

# HPLC/IC

### Leach Batch: 41925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-3644-1	CS-1	Soluble	Solid	DI Leach	
890-3644-2	CS-2	Soluble	Solid	DI Leach	
890-3644-3	CS-2	Soluble	Solid	DI Leach	
890-3644-4	CS-3	Soluble	Solid	DI Leach	
890-3644-5	CS-3	Soluble	Solid	DI Leach	
890-3644-6	CS-4	Soluble	Solid	DI Leach	
890-3644-7	CS-5	Soluble	Solid	DI Leach	
890-3644-8	CS-6	Soluble	Solid	DI Leach	
890-3644-9	SW-1	Soluble	Solid	DI Leach	
890-3644-10	SW-2	Soluble	Solid	DI Leach	
890-3644-11	SW-3	Soluble	Solid	DI Leach	
890-3644-12	SW-4	Soluble	Solid	DI Leach	
890-3644-13	SW-5	Soluble	Solid	DI Leach	
890-3644-14	SW-6	Soluble	Solid	DI Leach	
890-3644-15	SW-7	Soluble	Solid	DI Leach	
MB 880-41925/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-41925/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-41925/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3644-1 MS	CS-1	Soluble	Solid	DI Leach	
890-3644-1 MSD	CS-1	Soluble	Solid	DI Leach	
890-3644-11 MS	SW-3	Soluble	Solid	DI Leach	

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## Job ID: 890-3644-1 SDG: Eddy County NM

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### Job ID: 890-3644-1 SDG: Eddy County NM

Project/Site: Asteroid

Client: NT Global

HPLC/IC (Continued)

## Leach Batch: 41925 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3644-11 MSD	SW-3	Soluble	Solid	DI Leach	

#### Analysis Batch: 42330

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890-3644-11 MSD	SW-3	Soluble	Solid	DI Leach	
Analysis Batch: 42330					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3644-1	CS-1	Soluble	Solid	300.0	41925
890-3644-2	CS-2	Soluble	Solid	300.0	41925
890-3644-3	CS-2	Soluble	Solid	300.0	41925
890-3644-4	CS-3	Soluble	Solid	300.0	41925
890-3644-5	CS-3	Soluble	Solid	300.0	41925
890-3644-6	CS-4	Soluble	Solid	300.0	41925
890-3644-7	CS-5	Soluble	Solid	300.0	41925
890-3644-8	CS-6	Soluble	Solid	300.0	41925
890-3644-9	SW-1	Soluble	Solid	300.0	41925
890-3644-10	SW-2	Soluble	Solid	300.0	41925
890-3644-11	SW-3	Soluble	Solid	300.0	41925
890-3644-12	SW-4	Soluble	Solid	300.0	41925
890-3644-13	SW-5	Soluble	Solid	300.0	41925
890-3644-14	SW-6	Soluble	Solid	300.0	41925
890-3644-15	SW-7	Soluble	Solid	300.0	41925
MB 880-41925/1-A	Method Blank	Soluble	Solid	300.0	41925
LCS 880-41925/2-A	Lab Control Sample	Soluble	Solid	300.0	41925
LCSD 880-41925/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	41925
890-3644-1 MS	CS-1	Soluble	Solid	300.0	41925
890-3644-1 MSD	CS-1	Soluble	Solid	300.0	41925
890-3644-11 MS	SW-3	Soluble	Solid	300.0	41925
890-3644-11 MSD	SW-3	Soluble	Solid	300.0	41925

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Job ID: 890-3644-1 SDG: Eddy County NM

# Lab Sample ID: 890-3644-1 Matrix: Solid

Lab Sample ID: 890-3644-2

Matrix: Solid

Matrix: Solid

Date Collected: 12/13/22 12:00 Date Received: 12/13/22 13:37

**Client Sample ID: CS-1** 

Client: NT Global

Project/Site: Asteroid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	42504	12/22/22 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42591	12/24/22 18:08	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42603	12/26/22 15:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42227	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/17/22 23:59	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42330	12/22/22 21:23	SMC	EET MID

# **Client Sample ID: CS-2**

# Date Collected: 12/13/22 12:00

Date Received: 12/13/22 13:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42504	12/22/22 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42591	12/24/22 18:29	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42603	12/26/22 15:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42227	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 01:04	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42330	12/22/22 21:49	SMC	EET MID

# **Client Sample ID: CS-2**

# Date Collected: 12/13/22 12:00

Date Received: 12/13/22 13:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	42504	12/22/22 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42591	12/24/22 18:49	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42603	12/26/22 15:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42227	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 01:25	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42330	12/22/22 21:58	SMC	EET MID

#### **Client Sample ID: CS-3** Date Collected: 12/13/22 12:00 Date Received: 12/13/22 13:37

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	42504	12/22/22 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42591	12/24/22 19:09	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42603	12/26/22 15:59	AJ	EET MID

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Lab Sample ID: 890-3644-4

Lab Sample ID: 890-3644-3

Matrix: Solid

Job ID: 890-3644-1 SDG: Eddy County NM

# Lab Sample ID: 890-3644-4 Matrix: Solid

Lab Sample ID: 890-3644-5

Date Collected: 12/13/22 12:00 Date Received: 12/13/22 13:37

**Client Sample ID: CS-3** 

Client: NT Global

Project/Site: Asteroid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			42227	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 01:47	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42330	12/22/22 22:07	SMC	EET MID

### Client Sample ID: CS-3 Date Collected: 12/13/22 12:00

# Date Received: 12/13/22 13:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	42504	12/22/22 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42591	12/24/22 19:30	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42603	12/26/22 15:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42227	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 02:09	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42330	12/22/22 22:16	SMC	EET MID

# **Client Sample ID: CS-4**

Date Collected: 12/13/22 12:00 Date Received: 12/13/22 13:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	42504	12/22/22 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42591	12/24/22 19:50	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42603	12/26/22 15:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42227	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 02:30	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42330	12/22/22 22:42	SMC	EET MID

# Client Sample ID: CS-5

#### Date Collected: 12/13/22 12:00 Date Received: 12/13/22 13:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	42504	12/22/22 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42591	12/24/22 20:11	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42603	12/26/22 15:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42227	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 02:51	SM	EET MID

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# Lab Sample ID: 890-3644-6

Lab Sample ID: 890-3644-7

Matrix: Solid

Matrix: Solid

Matrix: Solid

# Lab Chronicle

Job ID: 890-3644-1 SDG: Eddy County NM

Lab Sample ID: 890-3644-8

Lab Sample ID: 890-3644-9

# Lab Sample ID: 890-3644-7

Matrix: Solid

Matrix: Solid

Matrix: Solid

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Date Collected: 12/13/22 12:00 Date Received: 12/13/22 13:37

**Client Sample ID: CS-5** 

Client: NT Global

Project/Site: Asteroid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42330	12/22/22 22:51	SMC	EET MID

#### **Client Sample ID: CS-6**

#### Date Collected: 12/13/22 12:00 Date Received: 12/13/22 13:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	42504	12/22/22 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42591	12/24/22 20:31	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42603	12/26/22 15:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42227	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 03:13	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42330	12/22/22 22:59	SMC	EET MID

# **Client Sample ID: SW-1** Date Collected: 12/13/22 12:00

# Date Received: 12/13/22 13:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	42504	12/22/22 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42591	12/24/22 20:51	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42603	12/26/22 15:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42227	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 03:34	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42330	12/22/22 23:08	SMC	EET MID

#### **Client Sample ID: SW-2** Date Collected: 12/13/22 12:00 Date Received: 12/13/22 13:37

# Lab Sample ID: 890-3644-10

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42504	12/22/22 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42591	12/24/22 21:12	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42603	12/26/22 15:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42227	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 03:56	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42330	12/22/22 23:17	SMC	EET MID

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# Released to Imaging: 5/23/2023 8:36:59 AM

Client: NT Global

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Project/Site: Asteroid

**Client Sample ID: SW-3** 

Date Collected: 12/13/22 12:00 Date Received: 12/13/22 13:37

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Prep

Batch

Method

5035

8021B

Total BTEX

8015NM Prep

8015B NM

DI Leach

300.0

8015 NM

Initial

Amount

5.03 g

5 mL

10.00 g

1 uL

5.02 g

50 mL

Final

Amount

5 mL

5 mL

10 mL

1 uL

50 mL

50 mL

Batch

42504

42591

42603

42227

41942

42078

41925

42330

Number

Dil

1

1

1

1

1

Factor

Run

Job ID: 890-3644-1 SDG: Eddy County NM

# Lab Sample ID: 890-3644-11

Analyst

MNR

AJ

AJ

SM

DM

SM

ĸs

SMC

Lab Sample ID: 890-3644-12

Lab Sample ID: 890-3644-13

Lab Sample ID: 890-3644-14

Matrix: Solid

Lab

EET MID

Matrix: Solid

Matrix: Solid

#### **Client Sample ID: SW-4** Date Collected: 12/13/22 12:00

Date Received: 12/13/22 13:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	42504	12/22/22 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42591	12/24/22 23:22	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42603	12/26/22 15:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42227	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 05:01	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42330	12/22/22 23:52	SMC	EET MID

# **Client Sample ID: SW-5**

# Date Collected: 12/13/22 12:00

Date Received: 12/13/22 13:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42504	12/22/22 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42591	12/24/22 23:43	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42603	12/26/22 15:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42227	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 05:23	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42330	12/23/22 00:00	SMC	EET MID

#### **Client Sample ID: SW-6** Date Collected: 12/13/22 12:00 Date Received: 12/13/22 13:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	42504	12/22/22 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42591	12/25/22 00:03	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42603	12/26/22 15:59	AJ	EET MID

**Eurofins Carlsbad** 

Prepared

or Analyzed

12/22/22 11:12

12/24/22 23:02

12/26/22 15:59

12/19/22 15:35

12/15/22 15:21

12/18/22 04:39

12/15/22 14:17

12/22/22 23:26

Matrix: Solid

Job ID: 890-3644-1 SDG: Eddy County NM

# Lab Sample ID: 890-3644-14

Matrix: Solid

### Client Sample ID: SW-6 Date Collected: 12/13/22 12:00

Date Received: 12/13/22 13:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			42227	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 05:44	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42330	12/23/22 00:27	SMC	EET MID

# Client Sample ID: SW-7 Date Collected: 12/13/22 12:00

#### Date Received: 12/13/22 13:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	42504	12/22/22 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42591	12/25/22 00:23	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42603	12/26/22 15:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42227	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 06:06	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42330	12/23/22 00:36	SMC	EET MID

#### Laboratory References:

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

 Prepared
 4

 or Analyzed
 Analyst
 Lab

 2/19/22 15:35
 SM
 EET MID

 2/15/22 15:21
 DM
 EET MID

 2/15/22 05:44
 SM
 EET MID

 2/15/22 14:17
 KS
 EET MID

 2/23/22 00:27
 SMC
 EET MID

 Lab Sample ID: 890-3644-15
 3

 Matrix: Solid
 9

Accreditation/Certification Summary

		Accreditation/C	ertification Summary		
Client: NT Global Project/Site: Asteroid				Job ID: 890-3644-1 SDG: Eddy County NM	2
Laboratory: Eurofin	s Midland				
Unless otherwise noted, all ana	alytes for this laboratory v	vere covered under each acc	reditation/certification below.		
Authority	F	Program	Identification Number	Expiration Date	
Texas	1	NELAP	T104704400-22-25	06-30-23	
The following analytes are	e included in this report. I	out the laboratory is not certif	ied by the governing authority. This list ma	av include analytes for which	5
the agency does not offer				-,	
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		
Total BTEX		Solid	Total BTEX		
					8
					9
					10
					13

# **Method Summary**

Client: NT Global Project/Site: Asteroid Job ID: 890-3644-1 SDG: Eddy County NM

Nethod	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	EET MID
fotal BTEX	Total BTEX Calculation	TAL SOP	EET MID
3015 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
3015NM Prep	Microextraction	SW846	EET MID
I 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

TAL SOF - TestAmerica Laboratories, Standard Operating P

#### Laboratory References:

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

# Sample Summary

Client: NT Global Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
390-3644-1	CS-1	Solid	12/13/22 12:00	12/13/22 13:37	2.5'	Λ
390-3644-2	CS-2	Solid	12/13/22 12:00	12/13/22 13:37	2.5'	
390-3644-3	CS-2	Solid	12/13/22 12:00	12/13/22 13:37	3.5	5
390-3644-4	CS-3	Solid	12/13/22 12:00	12/13/22 13:37	2.5	0
390-3644-5	CS-3	Solid	12/13/22 12:00	12/13/22 13:37	3.5	
390-3644-6	CS-4	Solid	12/13/22 12:00	12/13/22 13:37	2.5	0
390-3644-7	CS-5	Solid	12/13/22 12:00	12/13/22 13:37	2.5	
390-3644-8	CS-6	Solid	12/13/22 12:00	12/13/22 13:37	2.5	
390-3644-9	SW-1	Solid	12/13/22 12:00	12/13/22 13:37		
390-3644-10	SW-2	Solid	12/13/22 12:00	12/13/22 13:37		8
390-3644-11	SW-3	Solid	12/13/22 12:00	12/13/22 13:37		
390-3644-12	SW-4	Solid	12/13/22 12:00	12/13/22 13:37		9
390-3644-13	SW-5	Solid	12/13/22 12:00	12/13/22 13:37		
390-3644-14	SW-6	Solid	12/13/22 12:00	12/13/22 13:37		
390-3644-15	SW-7	Solid	12/13/22 12:00	12/13/22 13:37		
						12
						13

	Nampled     Time Sampled     Time Sampled     Depth Com       12/13     3-5     4       12/13     3-5     4       12/13     3-5     4       12/13     3-5     4       12/13     3-5     4       12/13     3-5     4       12/13     3-5     4       12/15     3-5     4       12/15     3-5     3-5       12/15     3-5     3-5       12/15     3-5     3-5       12/15     3-5     3-5       13/2ed     TCLP / SPLP 6010 : 8R       11/2ed     TCLP / SPLP 6010 : 8R       12/12ed     TCLP / SPLP 6010 : 8R       12/12ed     TCLP / SPLP 6010 : 8R       12/12ed     TCLP / SPLP 6010 : 8R       13/12ed     TCLP / SPLP 6010 : 8R       14/12ed     TCLP / SPLP 6010 : 8R       15/12ed     TCLP / SPLP 6010 : 8R       16/12ed     TCLP / SPLP 6010 : 8R       17/12ed     TCLP / SPLP 6010 : 8R       18/10e     SPLP 6010 : 8R <th>Sample Identification     Matrix     Draw       Sample Identification     Matrix     Draw       CS-1     12       CS-3     12       CS-4     12       CS-5     12       CS-6     12       Stur-1     12       CS-7     12       Coce     12       Stur-1     12       Sturice     12<th>(5-3 (5-3 (5-3 (5-3 (5-3 (5-4 (5-4 (5-4 (5-4 (5-4 (5-5) (5-6 (5-6) (5-6) (5-6) (5-6) (5-6) (5-6) (5-6) (5-7)</th></th>	Sample Identification     Matrix     Draw       Sample Identification     Matrix     Draw       CS-1     12       CS-3     12       CS-4     12       CS-5     12       CS-6     12       Stur-1     12       CS-7     12       Coce     12       Stur-1     12       Sturice     12 <th>(5-3 (5-3 (5-3 (5-3 (5-3 (5-4 (5-4 (5-4 (5-4 (5-4 (5-5) (5-6 (5-6) (5-6) (5-6) (5-6) (5-6) (5-6) (5-6) (5-7)</th>	(5-3 (5-3 (5-3 (5-3 (5-3 (5-4 (5-4 (5-4 (5-4 (5-4 (5-5) (5-6 (5-6) (5-6) (5-6) (5-6) (5-6) (5-6) (5-6) (5-7)
Se Ag SiO <sub>2</sub> Na Sr Hg: 1631 / 245.1	* Sampled Sampled Depth Sampled Sampled Depth JU13 2.5 3.7 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5	In Carlon Mat	(5-3) (5-3) (5-3) (5-3) (5-4) (5-4) (5-4) (5-4) (5-4) (5-4) (5-5) (5-6) (5-6) (5-6) (5-6) (5-6) (5-6) (5-6) (5-6) (5-6) (5-6) (5-6) (5-7) (
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Provide American Stress of the second stress of the	Date Time Depth Sampled Sampled Depth J2/13 3-5 3-5 3-5 3-5 3-5 3-5 3-5 3-5		
TPH Chloridee BTEX 890-3644 Chain of Custody	Date Time Depth Sampled Sampled Depth コーフ コーフ コーフ コーフ コーフ コーフ コーフ コーフ コーフ コーフ		
Provide American Stress	Date Time Depth Sampled Sampled Depth J2/13 2.5 3.7 3.7 3.5 3.5 3.5		5-47 (2-4) (2-3) (2-5) (
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P A Cont TPH Chloridee BTEX 890-3644 Chain of Custody	Date Time Depth Sampled Sampled Depth 12/13 2.5 3.5		e-5)
A chain of Custody	Date Time Depth Sampled Sampled 2.5		6-57
P Cont P Chloride BTEX 890-3844 Chain of Custody	Date Time Depth Sampled Sampled 2.5		
mp rate JUU Cont P Chlorides BTEX 890-3644 Chain of Custody	Date Time Depth		1-57
PH PH Derides TEX 890-3644 Chain of Custody			Sample Identification
H EX	Corrected Temperature:	ī	Total Containers:
		Yes	Sample Custody Seals:
	Correction Factor: -O	Yes No WA	Cooler Custody Seals:
	Thermometer ID:	2	Samples Received Intact:
neters	Yes No Wet Ice: Yes No	Temp Blank:	SAMPLE RECEIPT
H <sub>2</sub> S0 4: H <sub>2</sub>	the lab, if received by 4:30pm	and Guran	PO #:
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ANALYSIS REQUEST Preservative	Aurn Around	Asternai	Project Name:
E E	1918 Email: CMArhn	432-766-	Phone:
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Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334       Work Order No:         EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296         Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199         www.xenco.com       Page of	Environment Testing Xenco		
Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300		_	eurofins

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Page 65 of 76

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Received by: (Signature) Date/Time	Relinquished by: (Signature)	Date/Time	Signature)	Received by: (Signature)	gnature)	Relinquished by: (Signature)
onditions • control usly negotiated.	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.	urofins Xenco, its affilia benses incurred by the to Eurofins Xenco, but t	purchase order from client company to 5 me any responsibility for any losses or ex charge of 55 for each sample submitted	es constitutes a valid les and shall not assu o each project and a	t and relinquishment of sampliable only for the cost of samp liable only for the cost of samp arge of \$85.00 will be applied t	Notice: Signature of this docume of service. Eurofins Xenco will be of Eurofins Xenco. A minimum ct
Mo Ni K se Ag si0 <sub>2</sub> Na sr II sn U V Zn Tl U Hg: 1631/245.1/7470/7471	A 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	Al Sb As Ba Be B CRA Sb As Ba Be (	A 13PPM Texas 11 AI TCLP/SPLP 6010 : 8RCRA	8RCRA lyzed TC	200.8 / 6020: l Metal(s) to be ana	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed
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Sample Comments	E		Time Depth Grab/ # of Sampled Comp Cont	Date Sampled S	tion Matrix	Sample Identification
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Zn Acetate+NaOH: Zn	E		aging:	Temperature Rea	Yes No N/A	Sample Custody Seals:
Na 25 20 3: NaSO 3	X		DA	Correction Factor	Yes No N/A	Cooler Custody Seals:
NaHSO 4: NABIS				Thermometer ID:	Yes No	Samples Received Intact:
H <sub>3</sub> PO 4: HP		neter	Wet Ice: Yes No	Yes No N	Temp Blank:	SAMPLE RECEIPT
H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na			the lab, if received by 4:30pm	4	Mail Mail Mail Mail Mail Mail	PO #:
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www.xenco.com Page 2 of 2	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	l (575) 392-7550, Car	Hobbs, N			
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	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300	FX (281) 240-4200, [				eurofins
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Consuder 1997 00220 Phone. 575-988-3199 Fax 575-988-3199										R									Environment lesting
Client Information (Sub Contract Lab)	Sampler <sup>.</sup>			Lab PM Krame	Lab PM Kramer, Jessica					Car	Carrier Tracking No(s).	cking h	lo(s).			COC No: 890-10	COC No: 890-1064 1		
Client Contact: Shipping/Receiving	Phone:			E-Mail. Jessi	E-Mail. Jessica Kramer@et.eurofinsus	Øet.eur	ofinsu	s.com	_	Te	State of Origin Texas	igin				Page: Page	Page: Page 1 of 2		
Company Eurofins Environment Testing South Centr					Accreditations Requ NELAP - Texas	Required (See note): exas	d (See n	note):								Jop #	Job #: 890-3644-1		
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City Midland	TAT Requested (days):	ays):				₹0-										B NaO	NaOH	oza	N - None O AsNaO2
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	at working operation for the		Sample Type	Matrix (W=water S=solid	Filtered m MS/M RGFM_2	10D_NM/ MRO 1/5035FP_	10D_Calc	BTEX_G							Number			ĺ	
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab)	O=waste/oll, BT=Tissue, A=Air)	Perf	DRO		Total							Tota		Special	Instri	Special Instructions/Note:
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CS-1 (890-3644-1)	12/13/22	12 00 Central		Solid	×	x x	×	×							A	sudlind			
CS-2 (890-3644-2)	12/13/22	12 00 Central		Solid	×	×	××	×							<u>.</u>	<u>alline I</u>			
CS-2 (890-3644-3)	12/13/22	12 00 Central		Solid	×	×	× ×	×			-				<u></u>	ennerez e			
CS-3 (890-3644-4)	12/13/22	12 00 Central		Solid	×	×	× ×	×											
CS-3 (890-3644-5)	12/13/22	12 00 Central		Solid	×	×	× ×	×							( <b>4</b> 5 (	tos in F			
CS-4 (890-3644-6)	12/13/22	12 00 Central		Solid	×	×	× ×	×							i der (	interint			
CS-5 (890-3644-7)	12/13/22	12 00 Central		Solid	×	×	× ×	×							4	<u>.2028)</u>			
CS-6 (890-3644-8)	12/13/22	12 00 Central		Solid	×	×	××	×								randowed			
SW-1 (890-3644-9)	12/13/22	12 00 Central		Solid	×	X	××	×							ا بینی	Strates 1			
Note Since laboratory accreditations are subject to change Eurofins Environment Testing South Central, LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC.	ant Testing South Cent above for analysis/tests antral_LLC attention in	ral, LLC places /matrix being <i>s</i> nmediately If :	the ownership analyzed the sa all requested ac	of method ana mples must be creditations are	lyte & accredii shipped back current to da	ation corr to the Eu te return	ipliance rofins E the sign	h upon o Invironr ned Cha	our subc nent Te ain of Cu	iontract sting So istody a	laborat outh Ce	ories ntral L ) to sai	This sa LC labo	mple s pratory liance f	hipmei or othe	nt is for er instr ofins El	rwarded unde uctions will be nvironment Tr	er chain e provid esting S	-of-custody If the fed Any changes to South Central LLC.
Possible Hazard Identification					Sample Disposal ( A	le Disposal ( A Return To Clien	sal ( /	A fee	may b	e ass	assessed if san	lif sa	mple	s are	retai	tained long	te may be assessed if samples are retained longer than	n 1 m	1 month) Months
Deliverable Requested I II III IV Other (specify)	Primary Deliverable Rank		2		Special Instructions/Q	Instruc	tions/C	DC Re	C Requirements	nents		ļ							
Empty Kit Relinquished by		Date			Time			·		,	Met	Method of Shipment:	Shipme	ŧ	l				
Relinquished by	Date/Time			Company	30H	Y Ogvie	$\zeta$	K	Z	$\zeta$			Date/Time	ime					Company
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Relinquished by	Date/Time <sup>-</sup>			Company	Rec	Received by							Date/Time	ïme <sup>.</sup>					Company
Custody Seals Intact: Custody Seal No ∆ Yes ∆ No					Coo	Cooler Temperature(s	prature(s	റ്	and Other Remarks	r Rema	rks.							ŀ	
																			Ver 06/08/2021

Page 67 of 76

Eurofins Carlsbad 5

7 8 9

Eurofins Carlsbad 1089 N Canal St Carlsbad NM 88220 Phone. 575-988-3199 Fax. 575-988-3199		hain o	Chain of Custody Record	ody R	ecord							©68 ♥₽ ♥₽	🐝 eurofins	Environment Testing	
Client Information (Sub Contract Lab)	Sampler			Lab PM Krame	Lab PM Kramer, Jessica					Carrier Tr	Carrier Tracking No(s)	<u>8 5</u>	COC No: 890-1064 1		
Client Contact: Shipping/Receiving	Phone <sup>.</sup>			E-Mail Jessi	E-Mail Jessica Kramer@et.eurofinsus.com	@et.eu	Irofinsu	s.com		State of Origin Texas	rigin	a d	Page: Page 1 of 2		
Company Eurofins Environment Testing South Centr					Accreditations Required (See note): NELAP - Texas	is Requin Fexas	ed (See I	note):				9 9	Job # <sup>-</sup> 890-3644-1		
Address 1211 W Florida Ave	Due Date Requested 12/19/2022	7					◄	nalys	sis Re	Analysis Requested			Preservation Code	1.8	
City Midland Scient 7:	TAT Requested (days):	(s):			7	-080	ļ						A HCL B NaOH C Zn Acetate	zon	
state, Lip TX, 79701						Hati							- Nitric Acid NaHSO4		
Phone: 432-704-5440(Tel)	+ Od											L O I	- MeOH i Amchlor 1 - Ascorbic Acid	sτ	fe
Email	.# OM				(o)								- Di Water	⊃ ≻ ≷	
Project Name: Asteroid	Project #. 89000131				l 10 se	ม4_2_							K EDTA L EDA	w - pri 4-5 Y Trizma Z other (specify)	
Site:	.#MOSS				v) as	WN910	8 9183	٨				0.0*0+0*000add	Other:		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=crab)	Matrix (w=water S=solid, O=wastefoll, BT=TTecus A=Abr)	i beretita tileie Pertorm MS/M 28	8/MN_008108 0780-070	8018WOD_Calo	Otal_BTEX_GC				i 19dmuN isto	Conciol		
	X	X	- <b>(</b> 0)	on Code:	X	I B	Concer .	L	a bio				opecial	special instructions/Note:	100
CS-1 (890-3644-1)	12/13/22	12 00 Central		Solid	×	×	××	×				-			
CS-2 (890-3644-2)	12/13/22	12 00 Central		Solid	×	×	××	×				*			Ţ
CS-2 (890-3644-3)	12/13/22	12 00 Central		Solid	×	×	××	×	-			<b>\$</b>			
CS-3 (890-3644-4)	12/13/22	12 00 Central		Solid	×	×	××	×				\$			
CS-3 (890-3644-5)	12/13/22	12 00 Central		Solid	×	×	××	×				×.	an a		
CS-4 (890-3644-6)	12/13/22	12 00 Central		Solid	×	×	× ×	×				÷			
CS-5 (890-3644-7)	12/13/22	12 00 Central		Solid	×	×	××	×				<b>1</b>			
CS-6 (890-3644-8)	12/13/22	12 00 Central		Solid	×	×	××	×				×			T
SW-1 (890-3644-9)	12/13/22	12 00 Central		Solid	×	×	××	×				(*)			
Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central, LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided Any changes to accreditation in the stored State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC attention sufficient and the provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC attention immediately.	ent Testing South Centra above for analysis/tests/ Central, LLC attention im	II, LLC places t matrix being ar mediately If al	he ownership c lalyzed the sar	f method anal nples must be reditations are	yte & accred shipped bac current to da	itation col to the Ei ate return	npliance urofins E the sigr	upon ou Invironmi Ied Chail	ir subcor ent Testi n of Cusi	ntract laborat ng South Ce ody attesting	ories. This sam ntral LLC labor I to said compli	type shipment is f atory or other insl ance to Eurofins E	forwarded under of tructions will be p	chain-of-custody If the rovided Any changes to ting South Central LLC.	
Possible Hazard Identification					Sampl	e Dispo	) Isal ()	A fee m	ay be	assessed	if samples	are retained	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)	1 month)	T
Deliverable Requested 1, II III IV Other (specify)	Primary Deliverable	ble Rank 2			Specia	Special Instructions/QC Requirements	to Cile	DC Rec	quirem	<u>Disposal By Lab</u> ents	3y Lab	Archive For	e For	Months	Т
Empty Kit Relinquished by:		Date			Time					Meth	Method of Shipment:				Т
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Custody Seals Intact. Custody Seal No					Ö	Cooler Temperature(s) °C and Other Remarks.	erature(	s) °C and	I Other F	emarks.	-				Τ
					1	1			1	1	8	7	5	Ver 06/08/2021	
					4	3		2	1	0	3		5		

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Released to Imaging: 5/23/2023 8:36:59 AM

# Login Sample Receipt Checklist

Client: NT Global

<6mm (1/4").

#### Login Number: 3644 List Number: 1 Creator: Stutzman, Amanda

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	N/A	

Job Number: 890-3644-1

SDG Number: Eddy County NM List Source: Eurofins Carlsbad

Job Number: 890-3644-1 SDG Number: Eddy County NM List Source: Eurofins Midland

List Creation: 12/15/22 11:29 AM

# Login Sample Receipt Checklist

Client: NT Global

Login Number: 3644 List Number: 2 Creator: Teel, Brianna

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	True	

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



December 30, 2022

BECKY HASKELL NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND, TX 79706

RE: ASTEROID 20 29 FEDERAL COM WCA #1H

Enclosed are the results of analyses for samples received by the laboratory on 12/29/22 10:32.

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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



#### Analytical Results For:

NTG ENVIRONMENTAL BECKY HASKELL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received:	12/29/2022	Sampling Date:	12/29/2022
Reported:	12/30/2022	Sampling Type:	Soil
Project Name:	ASTEROID 20 29 FEDERAL COM WCA #1	Sampling Condition:	Cool & Intact
Project Number:	226535	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY, NM		

#### Sample ID: CS - 2 (4) (H226098-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/29/2022	ND	2.06	103	2.00	2.05	
Toluene*	<0.050	0.050	12/29/2022	ND	2.18	109	2.00	1.60	
Ethylbenzene*	<0.050	0.050	12/29/2022	ND	2.12	106	2.00	0.240	
Total Xylenes*	<0.150	0.150	12/29/2022	ND	6.52	109	6.00	0.0225	
Total BTEX	<0.300	0.300	12/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/29/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	191	95.7	200	4.85	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	180	90.0	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					
Surrogate: 1-Chlorooctane	99.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	106	% 46.3-17	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

NTG ENVIRONMENTAL BECKY HASKELL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received:	12/29/2022	Sampling Date:	12/29/2022
Reported:	12/30/2022	Sampling Type:	Soil
Project Name:	ASTEROID 20 29 FEDERAL COM WCA #1	Sampling Condition:	Cool & Intact
Project Number:	226535	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY, NM		

### Sample ID: CS - 2 (4.5) (H226098-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/29/2022	ND	2.06	103	2.00	2.05	
Toluene*	<0.050	0.050	12/29/2022	ND	2.18	109	2.00	1.60	
Ethylbenzene*	<0.050	0.050	12/29/2022	ND	2.12	106	2.00	0.240	
Total Xylenes*	<0.150	0.150	12/29/2022	ND	6.52	109	6.00	0.0225	
Total BTEX	<0.300	0.300	12/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/29/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	191	95.7	200	4.85	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	180	90.0	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					
Surrogate: 1-Chlorooctane	79.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	81.9	% 46.3-17	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

#### Cardinal Laboratories

#### \*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Revised Pate 05012020 Rev 2020 1	Davis		6 4								(	30
			2	1032	fe	12/22	)	Ness	10iQ	Sporteian	2	1 Shor
Date/Time	Received by: (Signature)		Relinquished by: (Signature)	e	Date/Time	-	(a.	Received by: (Signature)	Rece		Relinquished by: (Signature)	Relinquished
		assigns standard terms and conditions due to circumstances beyond the control orced unless previously negotiated.	subcontractors. It assigns standar if such losses are due to circumsta terms will be enforced unless pre	filiates and s y the client i lyzed. These	enco, its af incurred b but not ana	ompany to X or expenses d to Xenco, I	e order from client co ibility for any losses ich sample submitte	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are of Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enfi	mples con and shall n th project a	nquishment of sa cost of samples a be applied to eac	is document and reliable only for the charge of \$85.00 will	Notice: Signature of th of service. Xenco will of Xenco. A minimum
										ts:	Additional Comments:	Addit
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				×	××	-	Comp	×	2	12/29/2022	(4.5)	CS-2 (4.5)
				×	×××	1	Comp	x	2	12/29/2022	2 (4)	CS-2 (4)
Sample Comments	Sampl				тр	# of Cont	Water Comp	e Soil	Time	Date	ntification	Sample Identification
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hic Acid: SAPC	Acetate+NaOH: 21			-	-		-	Temperature Reading:	Tempe	NO N/A		Sample Custody Seals:
SU3	_					P	-0.102	Correction Factor:	Correc	NO N/A	ils: Yes No	Cooler Custody Seals:
BIS	NaHSO4: NABIS			ide 4	K 802	arai	#113	Thermometer ID:	Therm	No		Received Intact:
				-	_	mete	Yes No	No Wet Ice:	Yes No	Temp Blank:		SAMPLE RECEIPT
NaOH: Na	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>				0 + M	rs	lab, if received by 4:30pm	lab, if receiv				PO 井.
HNO3: HN	HCL: HC				RO)		TAT starts the day received by the	TAT starts the d		Tyler Kimball	T	Sampler's Name:
MeOH: Me	Cool: Cool					h	Same Day /	Due Date:		Eddy Co. NM	Ē	Project Location
DI Water: H <sub>2</sub> O	None: NO					Code	Rush 2/1	Routir		226535		Project Number:
Preservative Codes	Preserv	QUEST	ANALYSIS REQUEST				Turn Around		WCA #	Federal Com	Asteroid 20 29 Federal Com WCA #1H	Project Name:
ier:	ADaP ILL Other:	Deliverables: EDU_			V.com	oneener	Email: cmartin@earthstoneenergy.com	Email: 0			432-766-1918	Phone:
		Reporting:Level		Midland TX,79701	Midland	-	City, State ZIP:	0		701	Midland TX, 79701	City, State ZIP:
		State of Project:	600 N. Marienfeld, Suite 1000	arienfeld,	300 N. M		Address:	1		s Blvd.	701 Tradewinds Blvd	Address:
R[] Supe	S PR Brownfie s	Program: UST/PS	ting LLC	Earthstone Operating LLC	arthstor	-	Company Name:	0		ental	NTG Environmental	Company Name:
	Work Order Comments			rtin	Chris Martin		Bill to: (if different)	m			Becky Haskell	Project Manager:
10f1	Page			NTGE	N				1			(
Page 5										-	ENVIRONMENTA	P
109 8-1-15	Work Order No: Haau	Wo								1		
			dy	usto	of C	Chain of Custody	0					

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Page 5 of 5

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:		
Earthstone Operating, LLC	331165		
1400 Woodloch Forest; Ste 300	Action Number:		
The Woodlands, TX 77380	173339		
	Action Type:		
	[C-141] Release Corrective Action (C-141)		
CONDITIONS			

С	O	N	DI	τŀ	O	NS	

Created By	Condition	Condition Date
rhamlet	Earthstone's deferral requests to complete final remediation during any future major construction/alteration or final plugging/abandonment, whichever occurs first. NTG and Earthstone do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The area requested for deferral is "CS-2". The area has been delineated and documented in the report. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue. This is a federal site and will require like approval from BLM. For future reference, many of the Chain of Custody and Analysis Request forms showed samples not received at proper temperature of 6 deg. Celsius or below. If samples are improperly cared for again on future remediation projects, the report will be immediately denied.	5/8/2023

Action 173339

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