

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	nAPP2328543797
District RP	
Facility ID	
Application ID	275070

Release Notification

Responsible Party

Responsible Party: Novo Oil & Gas (Earthstone Energy, Inc.)	OGRID: 372920
Contact Name: Kevin Hart	Contact Telephone: 432-212-2081
Contact email: Kevin.Hart@permianres.com	Incident # (assigned by OCD): nAPP2328543797
Contact mailing address: 600 N. Marienfeld, Suite 1000, Midland, Texas 79701	

Location of Release Source

Latitude 32.341990 Longitude -104.085981
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Culebra Bluff CTB3 Produced Water Release	Site Type: Produced Water Line (production) – off pad
Date Release Discovered: 10/10/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
M	4	T22S	R28E	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)

<input type="checkbox"/> Crude Oil	Volume Released (bbls):	Volume Recovered (bbls):
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls): Estimated 50	Volume Recovered (bbls): Estimated 25
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
The weld connection on the pipeline riser failed. This resulted in an approximate release of 50 barrels of produced water on the right-of-way and adjacent property.

Volume of release was estimated based on approximate visual impacts and dimensions (approximately 60' x 80' area).

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? An estimated 50-barrels of produced water was released. The 50-barrels exceeds the threshold for a minimum release.
---	---

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
NOTE: Novo Oil & Gas assets were recently purchased by Earthstone.
 Email notification of the release was provided by Kevin Hart to the NMOCD Spill Hotline on October 11, 2023 at 11:00am. Email notification of the release was also provided by Bryan Haney to Crisha Morgan (BLM) on October 12, 2023, at 11:37 am. Bryan Haney with Altamira-US (on behalf of Earthstone Energy) submitted notification of a release (NOR) on the online OCD system on October 12, 2023.

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
--

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

 All actions above have been completed. One call has been completed and excavation is scheduled to begin on 10/13/2023.

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

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

Printed Name: <u>Kevin Hart</u>	Title: <u>Sr. HSE Advisor</u>
Signature: 	Date: <u>October 12, 2023</u>
email: <u>Kevin.Hart@permianres.com</u>	Telephone: <u>432-212-2081</u>

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2328543797
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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs) 47
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

Received by OCD: 12/16/2023 12:00:20 AM

Released to Imaging: 3/21/2024 2:28:20 PM

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2328543797
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Application ID	275070

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Printed Name: Kevin Hart Title: Sr. HSE Advisor
Signature:  Date: November 28, 2023
email: Kevin.Hart@permianres.com Telephone: 432-212-2081

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2328543797
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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.

Printed Name: Kevin Hart Title: Sr. HSE Advisor
 Signature:  Date: November 28, 2023
 email: Kevin.Hart@permianres.com Telephone: 432-212-2081

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____
 Printed Name: _____ Title: _____

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State of New Mexico
Energy, Minerals and Natural Resources
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QUESTIONS
 Action 275070

QUESTIONS

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 1001 West Wilshire Blvd Oklahoma City, OK 73116	OGRID: 372920
	Action Number: 275070
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	Culebra Bluff CTB3 Produced Water Release
Date Release Discovered	10/10/2023
Surface Owner	Federal

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Normal Operations Pipeline (Any) Produced Water Released: 50 BBL Recovered: 25 BBL Lost: 25 BBL.
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 275070

QUESTIONS (continued)

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 1001 West Wilshire Blvd Oklahoma City, OK 73116	OGRID: 372920
	Action Number: 275070
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by 19.15.29.7(A) NMAC	Yes, major release.
Reasons why this would be considered a submission for a notification of a major release	<ul style="list-style-type: none"> Unauthorized release of a volume, excluding gases, of 25 barrels or more
If YES, was immediate notice given to the OCD, by whom	Kevin Hart with Earthstone
If YES, was immediate notice given to the OCD, to whom	NMOCD Spill Hotline email
If YES, was immediate notice given to the OCD, when	10/11/2023
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	email to hotline
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response	
<i>The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.</i>	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	All have been completed
<i>Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. 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 prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.</i>	

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ACKNOWLEDGMENTS

Action 275070

ACKNOWLEDGMENTS

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 1001 West Wilshire Blvd Oklahoma City, OK 73116	OGRID: 372920
	Action Number: 275070
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	I acknowledge the fact that 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.
<input checked="" type="checkbox"/>	I acknowledge the fact that, 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.

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CONDITIONS

Action 275070

CONDITIONS

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 1001 West Wilshire Blvd Oklahoma City, OK 73116	OGRID: 372920
	Action Number: 275070
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
bhaney	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	10/12/2023

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Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2328543797
District RP	
Facility ID	
Application ID	275070

Release Notification

Responsible Party

Responsible Party: Novo Oil & Gas (Earthstone Energy, Inc.)	OGRID : 372920
Contact Name: Chris Martin	Contact Telephone: 432-894-0004
Contact email: cmartin@earthstoneenergy.com	Incident # (assigned by OCD): nAPP2328543797
Contact mailing address: 600 N. Marienfeld, Suite 1000, Midland, Texas 79701	

Location of Release Source

Latitude 32.341990° Longitude -104.085981°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Culebra Bluff CTB3 Produced Water Release	Site Type: Produced Water Line (production) – off pad
Date Release Discovered: 10/10/2023 at 11:00 am	API# (if applicable)

Unit Letter	Section	Township	Range	County
P	33	T22S	R28E	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)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls): 50	Volume Recovered (bbls): 25
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

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---	---

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
NOTE: Novo Oil & Gas assets were recently purchased by Earthstone.
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Printed Name: Kevin Hart Title: Sr HSE Advisor
 Signature:  Date: October 12, 2023
 email: khart@earthstoneenergy.com Telephone: 432-212-2081

OCD Only
 Received by: Shelly Wells Date: 10/12/2023

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CONDITIONS

Action 275212

CONDITIONS

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 1001 West Wilshire Blvd Oklahoma City, OK 73116	OGRID: 372920
	Action Number: 275212
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	10/12/2023



**Re: Culebra Bluff CTB3 Water Release (10/22/2023)
Novo Oil & Gas (Earthstone Energy, Inc.)
Incident ID: nAPP2328543797
Site Characterization**

Water Sources and Course Determination

Wellhead Protection Discussion

During remediation field activities, Altamira field personnel conducted a 0.5-mile radius search of the surrounding area to determine the presence of any known private or domestic water sources. During the search, no water wells or springs were identified within 0.5 miles of the release area. Altamira also reviewed available maps, satellite imagery, and reviewed the New Mexico Office of the State Engineers GIS database to search for known water wells. In review of the State Engineers GIS database, no water wells, monitoring wells or other subsurface water conveyances were identified within 0.5 miles of the release area.

Based on review of the FEMA Flood Map for the site area, the release area is located in Zone X "Area of Minimal Flood Hazard" (FIRM Panel 35015C1350D).

Significant Water Source Discussion

Altamira conducted a review of the significant watercourses nearest the release area. The Pecos River is located approximately 0.23 miles northwest of the Site. The release did not result in any adverse effects to the Pecos River. Salt Lake is located approximately 5 miles southeast of the Site area. No other watercourses were identified within a 0.5-mile radius of the release area.

Scaled Site Map

A scaled site map (grid and sample location) are provided as a separate attachment.

Field Data

A site assessment was not conducted. Novo determined it to be more productive to transition directly to remediation efforts.

Soil Contaminant Concentration

Samples were not collected or analyzed for site characterization. Soil sample data associated with the remediation confirmation soil sampling are provided as a separate attachment.



Water Depth Determination

A soil boring was installed east of the point of release and was advanced to a depth of 50-feet below ground surface. Soil boring SB-1 was installed during assessment of an adjacent Site. The purpose of advancing soil boring SB-1 to 50-feet was to determine if groundwater was present below 50-feet. During boring advancement, variations of dry unconsolidated soil and rock were observed. During advancement of soil boring SB-1, groundwater (saturation) was encountered at approximately 46.5 feet below ground surface. The borehole was advanced to 50 feet below ground surface and allowed to stay open for a period of time. The presence of groundwater was verified with an electronic water level probe.

Based on the lines of evidence provided above, groundwater appears to be shallower than 50-feet below ground surface in the area of the release. Based on this site-specific groundwater data, analytical data results are compared to Closure Criteria for groundwater encountered at depths less than 50 feet below ground surface.

Boring Logs

A site assessment was not conducted. Soil borings were not installed. However, the soil boring log for the depth to groundwater determination is provided as a separate attachment.

Photographs

A photographic log is provided as a separate attachment.

Topographic/Aerial Figures

A topographic map and aerial figure area provided as a separate attachment.

Laboratory Data

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N 32.341990
 W -104.0885981
 DISCOVERY DATE: OCTOBER 10, 2023

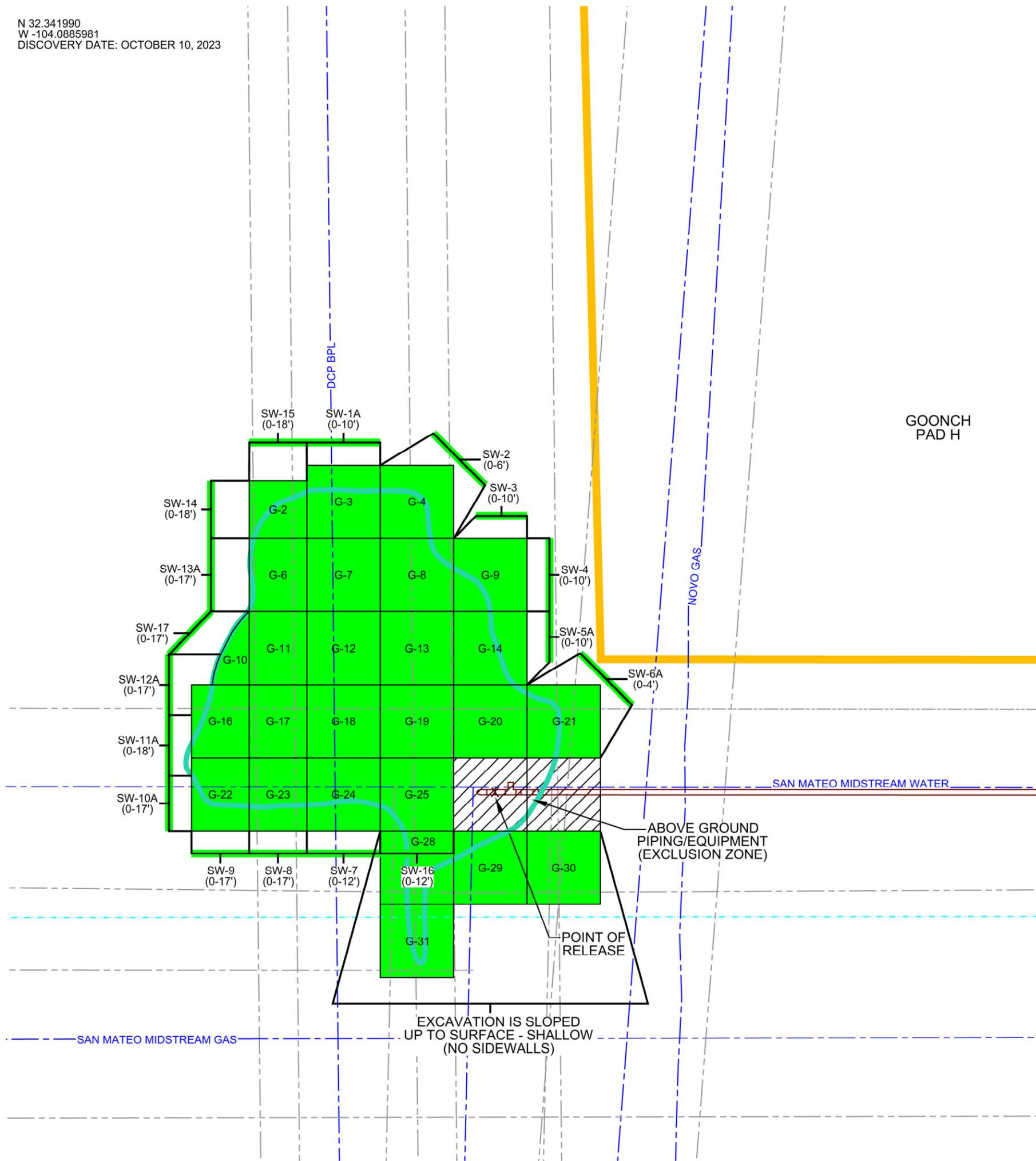


TABLE 1
 NMOCD CLOSURE CRITERIA FOR SOILS (mg/kg)
 (DEPTH TO GROUNDWATER < 51' BGS)

DEPTH	CHLORIDE*	TOTAL TPH	BTEX	BENZENE
0-4'	600	100	50	10
4'+	600	100	50	10

LEGEND

- BURIED PIPELINE
- PIPELINE RIGHT OF WAY
- CONFIRMATION SOIL SAMPLE GRID <math>< 200\text{ft}^2</math>
- SAMPLE GRID - MEETS NMOCD CLEANUP CRITERIA
- SIDE-WALL SAMPLE - MEETS NMOCD CLEANUP CRITERIA
- PAD
- APPROXIMATE SPILL AREA



Approximate Scale 20'

EARTHSTONE ENERGY
 CULEBRA BLUFF CTB3-PRODUCED WATER RELEASE
 nAPP2328543797
 EDDY COUNTY, NEW MEXICO

EXCAVATION AND SAMPLE GRID MAP

ALTAMIRA

FIGURE **3**



**Re: Culebra Bluff CTB3 Water Release (10/22/2023)
Novo Oil & Gas (Earthstone Energy, Inc.)
Incident ID: nAPP2328543797
Site Characterization**

Water Sources and Course Determination

Wellhead Protection Discussion

During remediation field activities, Altamira field personnel conducted a 0.5-mile radius search of the surrounding area to determine the presence of any known private or domestic water sources. During the search, no water wells or springs were identified within 0.5 miles of the release area. Altamira also reviewed available maps, satellite imagery, and reviewed the New Mexico Office of the State Engineers GIS database to search for known water wells. In review of the State Engineers GIS database, no water wells, monitoring wells or other subsurface water conveyances were identified within 0.5 miles of the release area.

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Altamira conducted a review of the significant watercourses nearest the release area. The Pecos River is located approximately 0.23 miles northwest of the Site. The release did not result in any adverse effects to the Pecos River. Salt Lake is located approximately 5 miles southeast of the Site area. No other watercourses were identified within a 0.5-mile radius of the release area.

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A soil boring was installed east of the point of release and was advanced to a depth of 50-feet below ground surface. Soil boring SB-1 was installed during assessment of an adjacent Site. The purpose of advancing soil boring SB-1 to 50-feet was to determine if groundwater was present below 50-feet. During boring advancement, variations of dry unconsolidated soil and rock were observed. During advancement of soil boring SB-1, groundwater (saturation) was encountered at approximately 46.5 feet below ground surface. The borehole was advanced to 50 feet below ground surface and allowed to stay open for a period of time. The presence of groundwater was verified with an electronic water level probe.

Based on the lines of evidence provided above, groundwater appears to be shallower than 50-feet below ground surface in the area of the release. Based on this site-specific groundwater data, analytical data results are compared to Closure Criteria for groundwater encountered at depths less than 50 feet below ground surface.

Boring Logs

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**Table 1 - Analytical Data Summary -
 Post Excavation Soil Samples (mg/kg)
 Novo Oil Gas/Earthstone - Culebra Bluff CTB3 Produced Water Release
 Incident ID: nAPP2328543797
 Near Loving, Eddy County, New Mexico**

Analyte Method	Chloride 4500-CI-B	BTEX 8021B	Benzene 8021B	TPH (C6-C10) 8015M	TPH (>C10-28) 8015M	TPH (>C28-36) 8015M	TPH 8015M
Table I - Closure Criteria (0-4')	600	50	10	-	-	-	100
Table I - Closure Criteria (>4')	600	50	10	-	-	-	100
Sample ID	Sample Date						
G-2 (10-10.5')	10/21/2023	688	<0.30	<0.05	<10	<10	<10
G-2 (17-17.5')	10/24/2023	80	-	-	-	-	-
G-3 (10-10.5')	10/20/2023	512	<0.30	<0.05	<10	<10	<10
G-4 (6-6.5')	10/17/2023	144	<0.30	<0.05	<10	<10	<10
G-6 (2-2.5')	10/17/2023	3,920	<0.30	<0.05	<10	<10	<10
G-6 (17-17.5')	10/21/2023	32	<0.30	<0.05	<10	<10	<10
G-7 (10-10.5')	10/20/2023	80	<0.30	<0.05	<10	<10	<10
G-8 (6-6.5')	10/17/2023	1,880	<0.30	<0.05	<10	<10	<10
G-8 (10-10.5')	10/20/2023	16	-	-	-	-	-
G-9 (10-10.5')	10/20/2023	16	<0.30	<0.05	<10	<10	<10
G-10 (17-17.5')	10/21/2023	528	<0.30	<0.05	<10	<10	<10
G-11 (8-8.5')	10/17/2023	5,120	<0.30	<0.05	<10	<10	<10
G-11 (17-17.5')	10/21/2023	384	<0.30	<0.05	<10	<10	<10
G-12 (18-18.5')	10/21/2023	16	<0.30	<0.05	<10	<10	<10
G-13 (18-18.5')	10/21/2023	240	<0.30	<0.05	<10	<10	<10
G-14 (4-4.5')	10/17/2023	3,360	<0.30	<0.05	<10	<10	<10
G-14 (10-10.5')	10/20/2023	16	-	-	-	-	-
G-16 (3-3.5')	10/17/2023	6,000	<0.30	<0.05	<10	<10	<10
G-16 (17-17.5')	10/21/2023	656	<0.30	<0.05	<10	<10	<10
G-16 (18-18.5')	10/24/2023	784	-	-	-	-	-
G-16 (18-18.5')	10/26/2023	368	-	-	-	-	-

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Table I - Closure Criteria (0-4')	600	50	10	-	-	-	100
Table I - Closure Criteria (>4')	600	50	10	-	-	-	100
Sample ID	Sample Date						
G-17 (3-3.5')	10/17/2023	10,400	<0.30	<0.05	<10	<10	<10
G-17 (17-17.5')	10/21/2023	80	<0.30	<0.05	<10	<10	<10
G-18 (18-18.5')	10/21/2023	64	<0.30	<0.05	<10	<10	<10
G-19 (18-18.5')	10/21/2023	48	<0.30	<0.05	<10	<10	<10
G-20 (4-4.5')	10/17/2023	8,800	<0.30	<0.05	<10	<10	<10
G-20 (12-12.5')	10/20/2023	304	-	-	-	-	-
G-21 (4-4.5')	10/17/2023	320	<0.30	<0.05	<10	<10	<10
G-22 (17-17.5')	10/21/2023	160	<0.30	<0.05	<10	<10	<10
G-23 (17-17.5')	10/21/2023	64	<0.30	<0.05	<10	<10	<10
G-24 (12-12.5')	10/20/2023	256	<0.30	<0.05	<10	<10	<10
G-25 (12-12.5')	10/20/2023	192	<0.30	<0.05	<10	<10	<10
G-28 (0.5-1')	10/24/2023	96	<0.30	<0.05	<10	<10	<10
G-29 (0.5-1')	10/24/2023	464	<0.30	<0.05	<10	<10	<10
G-30 (0.5-1')	10/24/2023	112	<0.30	<0.05	<10	<10	<10
G-31 (0.5-1')	10/24/2023	768	<0.30	<0.05	<10	<10	<10
G-31 (1-1.5')	10/26/2023	32	-	-	-	-	-
SW-1 (0-10')	10/24/2023	656	<0.30	<0.05	<10	<10	<10
SW-1A (0-10')	10/26/2023	528	-	-	-	-	-
SW-2 (0-6')	10/24/2023	96	<0.30	<0.05	<10	<10	<10
SW-3 (0-10')	10/24/2023	160	<0.30	<0.05	<10	<10	<10

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Table I - Closure Criteria (0-4')	600	50	10	-	-	-	100
Table I - Closure Criteria (>4')	600	50	10	-	-	-	100
Sample ID	Sample Date						
SW-4 (0-10')	10/24/2023	112	<0.30	<0.05	<10	<10	<10
SW-5 (0-10')	10/24/2023	1,120	<0.30	<0.05	<10	<10	<10
SW-5A (0-10')	10/26/2023	560	-	-	-	-	-
SW-6 (0-4')	10/24/2023	704	<0.30	<0.05	<10	<10	<10
SW-6A (0-4')	10/26/2023	160	-	-	-	-	-
SW-7 (0-12')	10/24/2023	176	<0.30	<0.05	<10	<10	<10
SW-8 (0-17')	10/24/2023	336	<0.30	<0.05	<10	<10	<10
SW-9 (0-17')	10/24/2023	560	<0.30	<0.05	<10	<10	<10
SW-10 (0-17')	10/24/2023	1,340	<0.30	<0.05	<10	<10	<10
SW-10A (0-17')	10/26/2023	256	-	-	-	-	-
SW-11 (0-18')	10/24/2023	5,760	<0.30	<0.05	<10	<10	<10
SW-11A (0-18')	10/26/2023	144	-	-	-	-	-
SW-12 (0-17')	10/24/2023	1,680	<0.30	<0.05	<10	<10	<10
SW-12A (0-17')	10/26/2023	240	-	-	-	-	-
SW-13 (0-17')	10/24/2023	720	<0.30	<0.05	<10	<10	<10
SW-13A (0-17')	10/26/2023	208	-	-	-	-	-
SW-14 (0-18')	10/24/2023	208	<0.30	<0.05	<10	<10	<10
SW-15 (0-18')	10/24/2023	144	<0.30	<0.05	<10	<10	<10
SW-16 (0-12')	10/26/2023	240	<0.30	<0.05	<10	<10	<10
SW-17 (0-12')	10/26/2023	176	<0.30	<0.05	<10	<10	<10

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Table I - Closure Criteria (0-4')	600	50	10	-	-	-	100
Table I - Closure Criteria (>4')	600	50	10	-	-	-	100
Sample ID	Sample Date						

Notes:

All results are in mg/kg
 Closure Criteria Soils - Table I of 19.15.29.12 NMAC
 TPH - Total Petroleum Hydrocarbons - includes GRO, DRO, MRO
 BTEX - Benzene, Toluene, Ethylbenzene, Xylenes
 <RL - results were not detected above the Laboratory Reporting Limit
 - Not analyzed
 Bold indicates a detection above the Laboratory Sample Reporting Limit
 Shading indicates that a detected result exceeded the NMOCD Table 1 Closure Criteria Levels
 * - Closure Criteria based on depth to groundwater less than 51 feet below ground surface



**Re: Culebra Bluff CTB3 Water Release (10/22/2023)
Novo Oil & Gas (Earthstone Energy, Inc.)
Incident ID: nAPP2328543797
Site Characterization**

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BORING RECORD								SB-1	
GEOLOG. UNIT	DEPTH (FEET)	LITHOLOGIC DESCRIPTION	UNIFIED SOIL CLASSIFICATION	GRAPHIC LOG	SAMPLE				REMARKS
					NUMBER	OWN READING	RECOVERY	DEPTH	
		32.3420774 -104.085668p OUTSIDE DELINEATION GROUND SURFACE:							BACKGROUND OWN READING: SOIL: 0 PPM AIR: 0 PPM
	0	0-1' BROWN SANDY SILT (ML) & GRAUITE, DRY	ML			0			0
	1-3'	BROWN SANDY SILT-SILT (ML), HARD DRY	ML			0			
	3-8'	TAN-WHITE SANDY SILTY (ML) - ROCK INTER BEDDED	ML			0			
	5					0			5
	8-18'	TAN SILTY SAND (SM), SOME ROCK HARD, DRY, VERY FINE GRAINED	SM			0			10
	10					0			
	15					0			15
	18-35'	BROWN SILTY SANDY CLAY (CL) STIFF, DRY, LOW PLASTICITY SILT MOIST @ 35' BGL BECOMING DARKER BROWN IN COLOR	CL			0			20
	20					0			
	25					0			25
	30					0			30
	35					0			35

-  CME CONTINUOUS AUGER SAMPLER
-  STANDARD PENETRATION TEST
-  UNDISTURBED SAMPLE
-  WATER TABLE (24 HOURS)
-  WATER TABLE (TIME OF BORING)
-  LABORATORY TEST LOCATION
-  PENETROMETER (TONS/SQ. FT.)
-  NR: NO RECOVERY

PROJECT NAME
Novo - Culebra Bluff CTB3 - Produced Water Line Release

PROJECT NUMBER
NVONM2104

BORING NUMBER
SB-1



3700 West Robinson St., Suite 200 • Norman, Oklahoma 73072 • 405-701-5058
www.altamira-us.com

DATE DRILLED: 11/25/2022

DRILLING METHOD: Direct Push/Air Rotary

DRILLED BY: ~~WHITE DRILLING~~ WHITE DRILLING

LOGGED BY: BH

CHECKED BY: BH

DRAWN BY: 

DRAWING NO.: _____

PAGE 1 OF 1

GEOLOG. UNIT		DEPTH (FEET)	LITHOLOGIC DESCRIPTION	UNIFIED SOIL CLASSIFICATION	GRAPHIC LOG	SAMPLE			REMARKS
						NUMBER	OMV READING	RECOVERY	DEPTH
			32.3420774 -104.0856686 GROUND SURFACE:						
		35	35'-46'	DARK BROWN - ORANGE/BROWN SILTY CLAY (CL), HARD-STIFF SLT. MOIST, MEDIUM PLASTICITY					35
		40					0		40
		45	47-50'	ORANGE/BROWN SAND, FINE GRAINED WET-SATURATED, WELL SORTED.			0		45
		50					0		50
							0		
							0		55
		55							55
		25	Samples: 0-1' @ 957 2-3' @ 1004 3-4' @ 1006 5-6' @ 1008 9-10' @ 1015						25
		30							30
		35							35

TD = 50' BGS

-  CME CONTINUOUS AUGER SAMPLER
-  STANDARD PENETRATION TEST
-  UNDISTURBED SAMPLE
-  WATER TABLE (24 HOURS)
-  WATER TABLE (TIME OF BORING)
-  LABORATORY TEST LOCATION
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-  NR: NO RECOVERY

PROJECT NAME
Novo - Culebra Bluff CTB3 - Produced Water Line Release

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3700 West Robinson St., Suite 200 • Norman, Oklahoma 73072 • 405-701-5058
www.altamira-us.com

DATE DRILLED: 11/25/2022
 DRILLING METHOD: Direct Push/Air Rotary
 DRILLED BY: ~~Vortex Drilling~~ WHITE DRILLING
 LOGGED BY: BA
 CHECKED BY: BA
 DRAWING NO.:
 DRAWN BY:  PAGE 1 OF 1

Appendix B
Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797



View northwest at release area located northwest of point of release

Appendix B
Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797



October 10, 2023 – view northwest at point of release and release area northwest of release

Appendix B
Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797



View of pipe point of release and release area to the northwest



View north at release area

Appendix B
Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797



View of active soil remediation south of point of release immediately adjacent to pipeline



View north at active soil excavation activities

Appendix B
Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797



View north at remedaiton area and outline of area south of pipeline rise showing minimal surface impact



View south at remedation area

Appendix B
Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797



View showing backfill of excavation area

Appendix B
Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797



View showing complete backfilled area

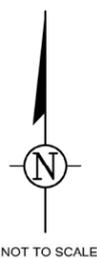
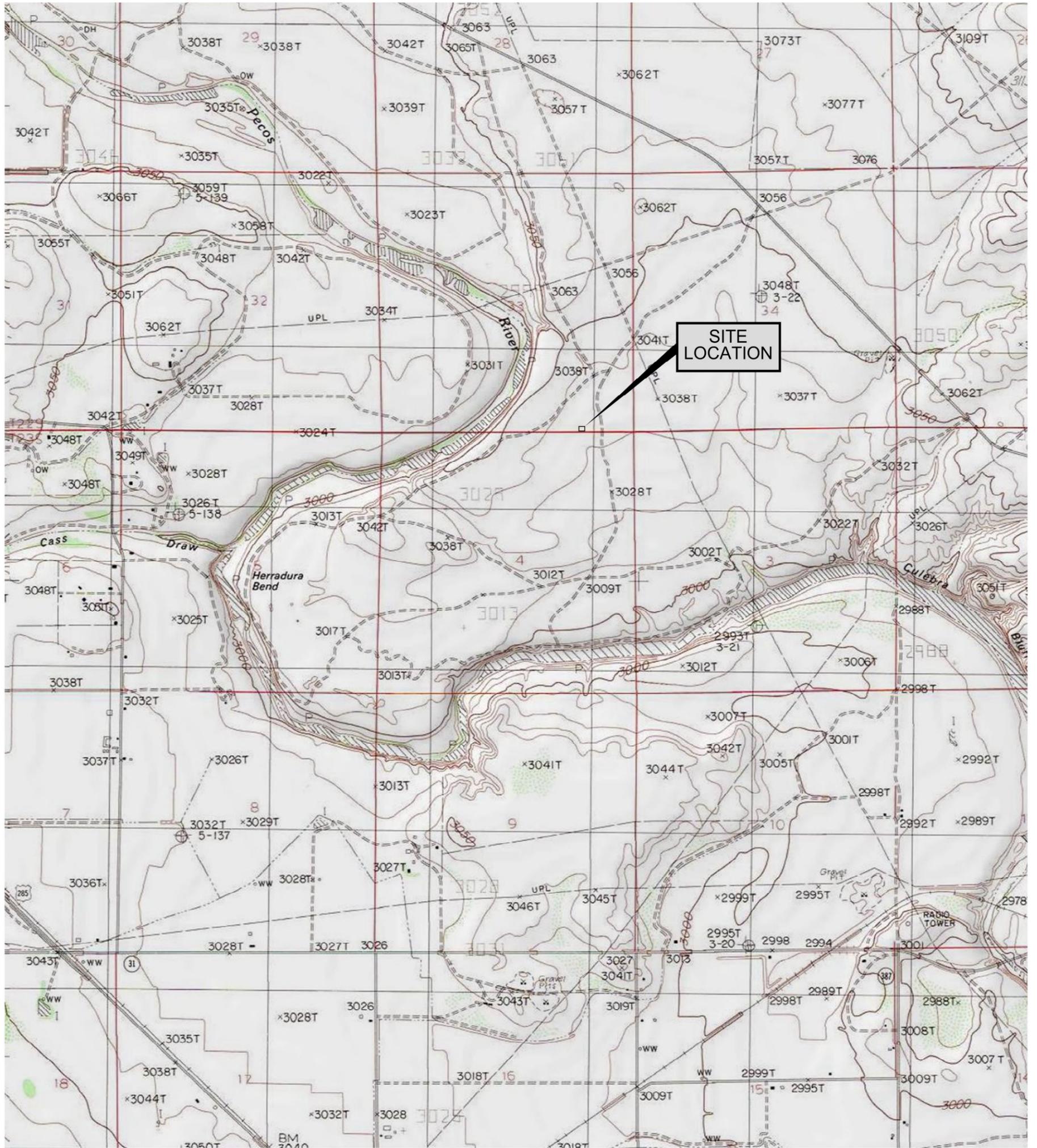


EARTHSTONE ENERGY
 CULEBRA BLUFF CTB3-PRODUCED WATER RELEASE
 nAPP2328543797
 EDDY COUNTY, NEW MEXICO

SITE LOCATION MAP

 ALTAMIRA	FIGURE 2
---	--------------------

CITY:(Regd) DIV:GROUP:(Regd) DB:(Regd) LD:(Opt) PIC:(Opt) PM:(Regd) TM:(Opt) LVR:(Opt)ON="OFF"REF"
P:\Earthstone Energy\NVONM2308 - Culebra Bluff CTB3 Produced Water Release\Figures\NVONM2308 - CULEBRA BLUFF CTB3.dwg LAYOUT: FIGURE 1 SAVED: 11/20/2023 8:37 AM ACADVER: 24.3S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 11/20/2023 8:37 AM BY: AARON LOZANO



EARTHSTONE ENERGY
 CULEBRA BLUFF CTB3-PRODUCED WATER RELEASE
 nAPP2328543797
 EDDY COUNTY, NEW MEXICO

TOPOGRAPHIC MAP



FIGURE

1



**Re: Culebra Bluff CTB3 Water Release (10/22/2023)
Novo Oil & Gas (Earthstone Energy, Inc.)
Incident ID: nAPP2328543797
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**Release Response Action Completion
& Closure Report
Incident ID No. nAPP2328543797
Earthstone/Novo Oil & Gas
Culebra Bluff CTB3 Produce Water Release
Discovery Date: October 10, 2023
Eddy County, New Mexico**

***Prepared for:
Earthstone/Novo Oil & Gas Northern Delaware, LLC
600 N. Marienfeld, Suite 1000
Midland, Texas 79701***

***Prepared By:
Altamira-US
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ACRONYMS AND ABBREVIATIONS

- Altamira Altamira-US, LLC
- Novo Novo Oil & Gas Northern Delaware, LLC
- bgs below ground surface
- mg/Kg milligram per kilogram
- NMOCD New Mexico Oil Conservation District
- BLM Bureau of Land Management
- TPH Total Petroleum Hydrocarbons
- BTEX Benzene, Toluene, Ethylbenzene, Xylenes

1.0 INTRODUCTION

Earthstone/Novo Oil & Gas Northern Delaware, LLC (Novo Oil & Gas) (OGRID No. 372920) operate a facility known as the Culebra Bluff CTB3 facility located in Unit M, Section 4, T22S, R28E, in Eddy County, New Mexico. On October 10, 2023, at approximately 11:00am, field personnel for Earthstone/Novo Oil & Gas discovered a release of produced water associated with a produced water line at latitude 32.341990°, longitude -104.085981° (**Figure 1 and Figure 2**). This Release Response Action & Closure Report has been prepared to document initial response actions, remediation, and site closure efforts.

1.1 Release Details and Initial Response

On October 10, 2023, at approximately 11:00 am, Earthstone/Novo personnel identified a release of produced water from a weld connection on an above-ground produced water line section. Approximately fifty (50) barrels of produced water released onto the right-of-way (ROW) and adjacent off-pad area surrounding the pipeline point of release, mainly to the north and northwest of the point of release. The release was contained to the immediate area. Upon discovery of the release, Novo was able to shut in flow to the line. The release affected an area of approximately 60' x 80' (**Figure 3**) and was irregular shaped.

Novo estimated approximately 50 barrels of produced water were released; and approximately 25 barrels of produced water was recovered using vacuum trucks and initial removal of affected soil. The release volume was estimated based on the approximate dimensions of the surface release area.

1.2 Notification

Based on the quantity of fluid released being more than 25 barrels, the release was determined to be a major release per 19.15.29.1.B NMAC. Notification was provided by Kevin Hart to the NMOCD hotline via email on October 11, 2023. The initial online release notification was submitted to the NMOCD on October 12, 2023. The OCD issued incident ID# nAPP2328543797. Form C-141 Release Notification was prepared and submitted online with payment on October 12, 2023.

Initial notification was provided by Bryan Haney to the BLM via email on October 12, 2023. Written notification of the release (BLM Major Undesirable Event Report) was also provided to the BLM on October 12, 2023. Copies of the C-141 Release Notification form and BLM Major Undesirable Event Report are provided in **Appendix A**.

1.3 Project Objectives

The project objectives were to: 1) conduct initial release cleanup efforts, 2) physically remove affected soil containing constituent concentrations that exceed the NMOCD cleanup levels, and 3) restore and reclaim the remediated areas.

1.4 Regulatory Framework

The Site is subject to environmental regulatory oversight by the NMOCD. Notification, assessment, and response action activities were conducted in accordance with guidelines outlined in 19.15.29 NMAC. The Site is located on property owned by the BLM.

2.0 STANDARD OF CARE, LIMITATIONS, & RELIANCE

2.1 Standard of Care

Altamira's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same period of time. Altamira makes no warranties, expressed or implied, as to the services performed hereunder. Additionally, Altamira does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report.

2.2 Additional Limitations

Findings, conclusions and recommendations resulting from these services are based upon information derived from the services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Altamira cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this scope of services. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Altamira's findings and recommendations are based solely upon data available to Altamira at the time of these services.

3.0 RECEPTOR AND WATER SOURCES SURVEY

3.1 Wellhead Protection Discussion

During assessment field activities, Altamira field personnel conducted a 0.5-mile radius search of the surrounding area to determine the presence of any known private or domestic water sources. During the search, no water wells or springs were identified within 0.5 miles of the release area. Altamira also reviewed available maps, satellite imagery, and reviewed the New Mexico Office of the State Engineers GIS database to search for known water wells. In review of the State Engineers GIS database, no water wells, monitoring wells or other subsurface water conveyances were identified within 0.5 miles of the release area.

Based on review of the FEMA Flood Map for the site area, the release area is located in Zone X "Area of Minimal Flood Hazard" (FIRM Panel 35015C1350D).

3.2 Significant Water Source Discussion

Altamira conducted a review of the significant watercourses nearest the release area. The Pecos River is located approximately 0.23 miles northwest of the Site. The release did not result in any adverse effects to the Pecos River. Salt Lake is located approximately 5 miles southeast of the Site area. No other watercourses were identified within a 0.5-mile radius of the release area.

3.3 Determination of Depth to Groundwater

A soil boring was installed east of the point of release and was advanced to a depth of 50-feet below ground surface. Soil boring SB-1 was installed during assessment of an adjacent Site. The purpose of advancing soil boring SB-1 to 50-feet was to determine if groundwater was present below 50-feet. During boring advancement, variations of dry unconsolidated soil and rock were observed. During advancement of soil boring SB-1, groundwater (saturation) was encountered at approximately 46.5 feet below ground surface. The borehole was advanced to 50 feet below ground surface and allowed to stay open for a period of time. The presence of groundwater was verified with an electronic water level probe.

Based on the lines of evidence provided above, groundwater appears to be shallower than 50-feet below ground surface in the area of the release. Based on this site-specific groundwater data, analytical data results are compared to Closure Criteria for groundwater encountered at depths less than 50 feet below ground surface.

4.0 REMEDIATION

Based on the volume of the release (major – estimated 50-barrels), Earthstone/Novo determined the best course of action was to move directly to remediation of the affected soil located near the area of Culebra Bluff CTB3 adjacent to the Goonch Pad-H. Affected soil remediation was conducted between October 13 through October 31, 2023. Affected soil was excavated or hydro-excavated and loaded into trucks for transport and disposal at the LeaLand, LLC disposal facility located at mile marker 64 US Highway 62/180 between Carlsbad and Hobbs, New Mexico (Permit Number WM-01-035 – New Mexico). Confirmation soil sampling was conducted to determine the effectiveness of soil remediation efforts. Details regarding the affected soil remediation and post excavation confirmation soil sampling are provided below. Site photographs are provided in **Appendix B**. Field documentation is provided in **Appendix C**.

4.1 Confirmation Soil Sampling and Analysis Plan

Confirmation soil samples collected post excavation were analyzed by Cardinal Laboratories in Hobbs, New Mexico, accredited by the National Environmental Laboratory Accreditation Program (NELAP) for environmental sample analysis requirements. The sampling program and laboratory methods used for the analysis for the project are listed in the following table. Altamira utilized the Oil Conservation Commission guidance and regulations under Title 19, Chapter 15, Part 29 to address the release and constituents of concern. The executed chain-of-custody documents and laboratory reports are provided in **Appendix E**.

Release Response Action Completion & Closure Report
 Earthstone/Novo Oil & Gas – Culebra Bluff CTB3 Produced Water Release
 Discovery Date: October 10, 2023

Sample Type	Analysis	Laboratory Method
Soil	Total Petroleum Hydrocarbons (TPH)	8015M
Soil	Benzene, Toluene, Ethylbenzene, Xylenes	8260B
Soil	Chlorides	4500-Cl-B

4.2 Soil Remediation Activities

Altamira and Earthstone/Novo provided notification to the OCD via email (**Appendix A**) on October 12, 2023 regarding the intent to conduct soil remediation and confirmation soil sampling at the Novo Culebra Bluff CTB3 release area. This in addition to the initial agency notifications of immediate release response activities.

During October 2023, Novo conducted soil remediation and reclamation activities on the at the release Site associated with the Culebra Bluff CTB3 facility and produced water line (off-pad area refer to **Figure 3**). The visible release footprint was irregular shaped and appeared to be contained near the off-pad area located generally southwest of the Novo Goonch Pad-H. A GPS grade survey system was used to identify the approximate boundary of the release area in relation to the facility pad area and active equipment and pipelines. A grid system was established to identify the excavation areas and 200-square foot confirmation soil sample grid areas. The excavation and sample grids were identified and marked using GPS and are depicted on **Figure 3**. The sample grids were assigned a unique grid ID that ties to the analytical data table and figure. The Site consisted of native reddish silty sand and abundant consolidated and unconsolidated rock with sparse native vegetation.

Rouge Services was contracted by Earthstone/Novo to conduct the soil excavation, loading, and hauling. Affected mechanical soil excavation and hydro-excavation began on October 13, 2023, and continued through October 26, 2023. Excavated soil was either stockpiled or direct loaded to trucks. Water and saturated soils derived from hydro-excavation were placed into a plastic lined and bermed area and allowed to dry prior to transport and disposal. Soil within each grid was initially excavated until visual signs of moisture were no longer observed. Grids located south of the point of release did not appear heavily impacted and were excavated and sampled to a shallower depth (generally 1 foot) and sloped to the surface on the south edge. Excavation along the pipeline and above ground equipment was conducted to the best extent practicable to avoid physical pipeline failure. Following excavation at each grid, confirmation soil samples were collected and submitted to Cardinal Laboratories for analysis. Based on initial analytical data results, the excavation area was extended vertically and laterally until each grid floor and each side-wall exhibited TPH, BTEX, and chloride concentrations less than the Closure Criteria levels.

Confirmation soil samples were collected within each 200 square foot grid and consisted of a 5-point composite sample (generally one from the center and one outward near each corner area). Confirmation soil samples were initially analyzed for chlorides, TPH, and BTEX as described in section 4.1 of this report. Analytical results for each confirmation grid sample were evaluated to

Release Response Action Completion & Closure Report
Earthstone/Novo Oil & Gas – Culebra Bluff CTB3 Produced Water Release
Discovery Date: October 10, 2023

the most stringent criteria per *Table I – Closure Criteria for Soils Impacted by a Release*. Analytical data results are presented on **Table 1**. If analytical data results showed a chemical constituent exceeded the Closure Criteria Level, soil in that particular grid or sidewall area was further excavated and resampled. Laboratory analysis for soil samples for grids that were further excavated were only analyzed for those chemical constituents that previously exceeded the Closure Criteria Level in the previous depth interval. This process continued until the concentration of all targeted chemical constituents were below the respective Closure Criteria Levels.

4.3 Waste Management

As described above, affected soil associated with the release was transported to the LeaLand, LLC disposal facility located at mile marker 64 US Highway 62/180 between Carlsbad and Hobbs, New Mexico (Permit Number WM-01-035 – New Mexico). A New Mexico Non-Hazardous Oilfield Waste Manifest was prepared for each truck load of soil material. Manifests are provided in **Appendix D**.

5.0 DATA RESULTS & EVALUATION

Altamira utilized guidance from 19.15.29 NMAC, specifically *Table I - Closure Criteria for Soils Impacted by a Release* to assess soil sample analytical data collected at the Site. Depth to groundwater at the site was investigated and determined to be present at approximately 46.5 feet below ground surface. The most stringent closure criteria action levels were utilized to evaluate analytical results for remediation and site closure. Analytical results are provided in **Table 1** and Laboratory Analytical Data Report are provided in **Appendix E**.

As previously described, work and confirmation soil sample grids were measured and marked on 200 square foot or less grids. The overall grid area was setup in a conservative manner so that grids included known and suspected affected soil areas, but also overlapped into known unaffected soil areas. Side-walls were set up so that each side-wall was within the 200 square foot requirement. The remediation area and associated sample grids are depicted on **Figure 3**. The Figure 3 depicts grids and side-walls with a green color that indicates the soil data for that grid met applicable Closure Criteria.

5.1 Confirmation Soil Sampling Results

5.1.1 Chlorides

Initial analytical results for chlorides exceeded 600 mg/kg in various soil samples from two feet to depths of 18-feet below ground surface. Higher chloride concentrations were observed in the shallower soil intervals and attenuated with depth. Analytical data showed that much of the chloride impacts to soil and rock were generally north and west of the point of release. Evaluation of chloride concentrations showed attenuation of chlorides with depth. With chlorides being the predominate constituent of concern, soil and rock excavation continued in depth until chloride concentrations were detected below 600 mg/kg. Since the excavation was extended in each direction beyond the physical indications of the release, chloride concentrations on the side-walls demonstrated concentrations less than 600 mg/kg. **Remediation of chlorides in soil has been completed.**

5.1.2 TPH

TPH was analyzed on all initial confirmation soil samples. Analytical results for all post excavation confirmation soil samples show TPH concentrations not detected above the laboratory reporting limit. **Remediation of TPH in soil has been completed.**

5.1.3 BTEX

BTEX was analyzed on all initial confirmation soil samples. For the purpose of assessment and in accordance with regulatory guidance, benzene and total BTEX concentrations were compared to an assessment level of 10 mg/kg and 50 mg/kg, respectively. Analytical results for all grid and side-wall samples showed benzene and BTEX concentrations were not detected above the laboratory reporting limit. **Remediation of BTEX in soil has been completed.**

5.2 Final Data Evaluation

As described above, the known and probable affected soil areas were marked within 200 square foot grids for excavation and confirmation soil sampling. Following excavation activities to remove affected soil, confirmation soil samples were collected per the NMAC guidelines. Analytical data demonstrate remediation efforts (soil and rock removal) was successful. Concentrations of chlorides, TPH, and BTEX were either not detected above the laboratory reporting limit (non-detect), or if detected were below all applicable NMOCD Closure Criteria. As a result, no further response or remediation action is necessary.

6.0 RESTORATION, RECLAMATION & RE-VEGETATION

6.1 Restoration and Reclamation Activities

Following excavation activities, the excavated area was restored to its original condition. The excavated area was backfilled using native topsoil (similar to existing silty-sandy very fine-grained soil) from a landowner's property located near the remediated site area. Following placement and compaction of the new native topsoil, the area was graded and contoured to match the original topography of the site area.

On October 31, 2023, the Site was seeded using BLM seed mix #2 and a cover crop seed. Seed was planted using a seed drill and general broadcasting. Crisha Morgan of the BLM provided Altamira seed mix instructions in an email dated April 4, 2023.

“Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding”.

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 Earthstone/Novo Oil & Gas – Culebra Bluff CTB3 Produced Water Release
 Discovery Date: October 10, 2023

Species planted in pounds of pure live seed* per acre:

Species

	<u>lb/acre</u>
Sand dropseed (<i>Sporobolus cryptandrus</i>)	1.0
Sand love grass (<i>Eragrostis trichodes</i>)	1.0
Plains bristlegrass (<i>Setaria macrostachya</i>)	2.0

Following seeding the Site area was watered and followed by minor rainfall. Recent inspection of the BLM property remediated and reclaimed has not revealed any erosion.

7.0 CONCLUSIONS

On October 10, 2023, Earthstone/Novo personnel identified a release of produced water from a weld connection on an above ground produced water line section. Approximately fifty (50) barrels of produced water released onto the right-of-way (ROW) and adjacent off-pad area surrounding the pipeline point of release. The release was contained to the immediate area. Upon discovery of the release, Novo was able to shut off flow to the produced water line.

Approximately 50-barrels of produced water was released; and approximately 25-barrels of produced water was initially recovered using vacuum trucks and removal of affected soil. During October 2023 Novo conducted remediation efforts to remove affected soil and restore the release area to pre-release conditions.

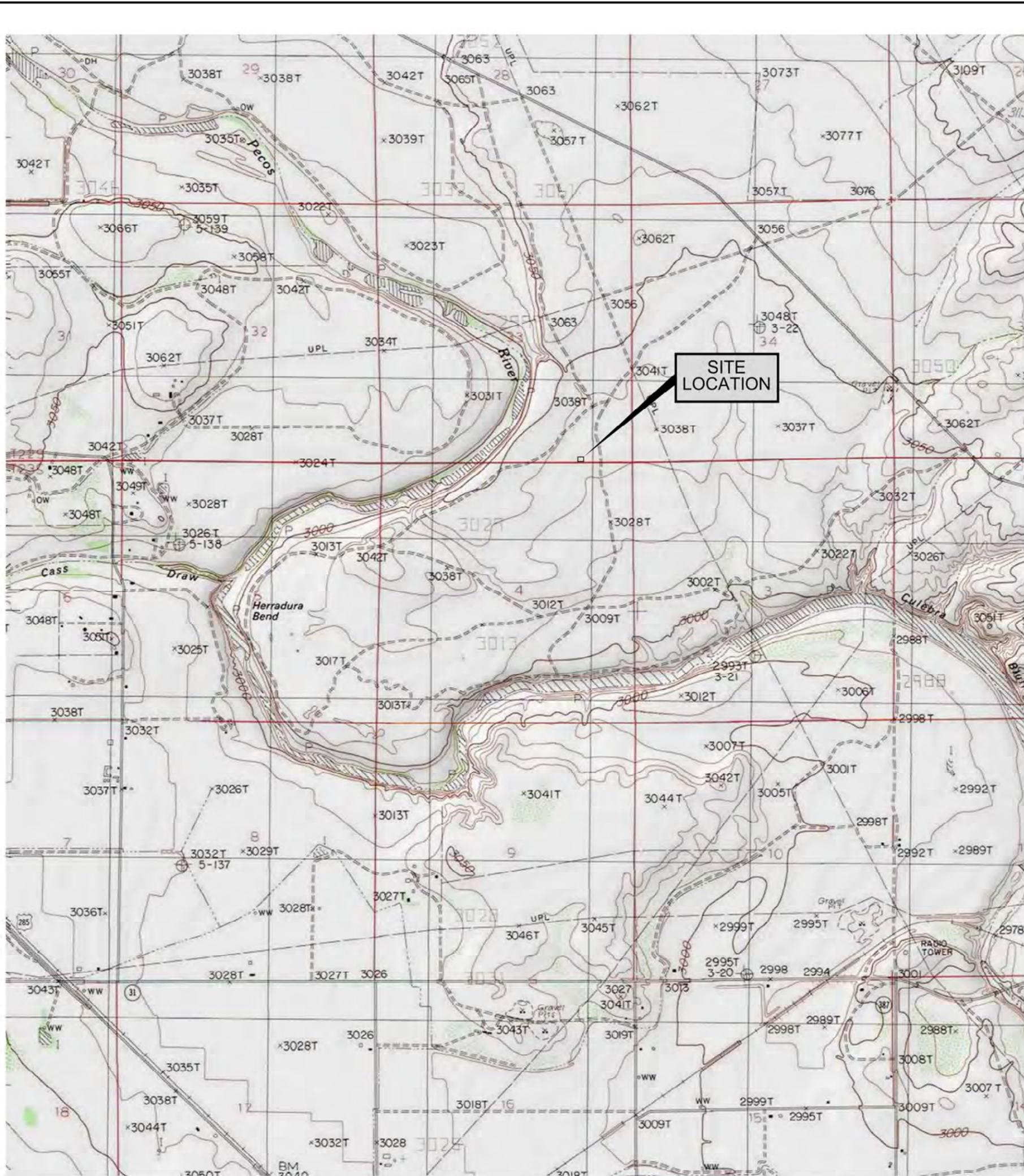
Analytical data results for post excavation confirmation soil validate the completion of affected soil removal from the release area.

- Excavation floor and sidewall samples were collected per NMOCD guidance.
- Soil on-site has been remediated to chloride levels less than 600 mg/kg.
- TPH and BTEX were not detected above the laboratory reporting limits.
- Reclamation and restoration efforts have been completed.
- No further response action/remediation is necessary for this release Site.
- Earthstone/Novo would respectfully like to request regulatory closure for Incident ID: nAPP2328543797.



FIGURES

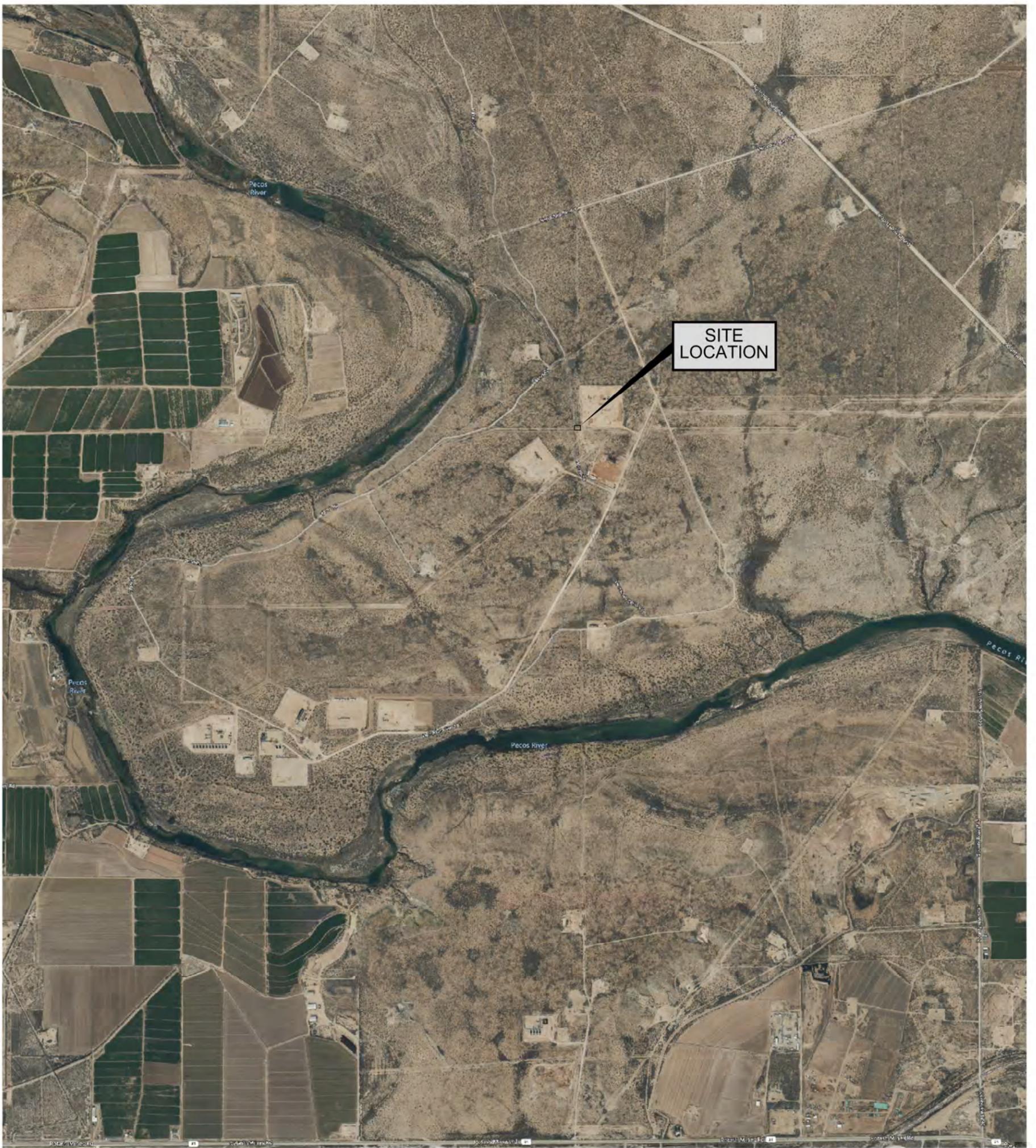
CITY:(Regd) DIV:GROUP:(Regd) DB:(Regd) LD:(Opt) PIC:(Opt) PM:(Regd) TM:(Opt) LYR:(Opt)ON="OFF"REF*
P:\Earthstone Energy\NVONM2308 - Culebra Bluff CTB3 Produced Water Release\Figures\NVONM2308 - CULEBRA BLUFF CTB3.dwg LAYOUT: FIGURE 1 SAVED: 11/20/2023 8:37 AM ACADVER: 24.3S (LMS TECH) PAGES SETUP: ---- PLOT STYLE TABLE: ---- PLOTTED: 11/20/2023 8:37 AM BY: AARON LOZANO



EARTHSTONE ENERGY
 CULEBRA BLUFF CTB3-PRODUCED WATER RELEASE
 nAPP2328543797
 EDDY COUNTY, NEW MEXICO

TOPOGRAPHIC MAP

	FIGURE 1
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EARTHSTONE ENERGY CULEBRA BLUFF CTB3-PRODUCED WATER RELEASE nAPP2328543797 EDDY COUNTY, NEW MEXICO	
SITE LOCATION MAP	
 ALTAMIRA	FIGURE 2

N 32.341990
 W -104.0885981
 DISCOVERY DATE: OCTOBER 10, 2023

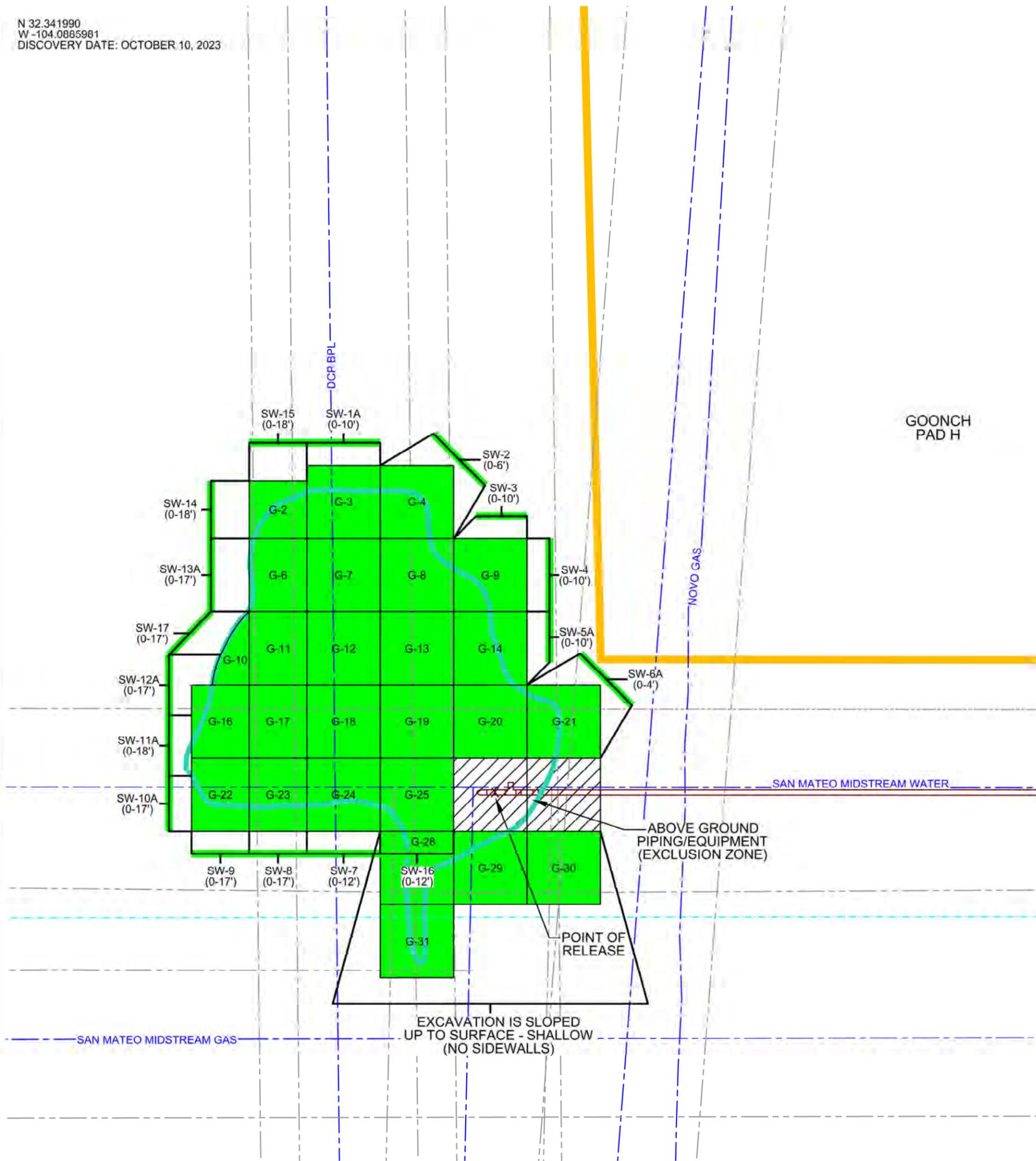


TABLE 1
 NMOCD CLOSURE CRITERIA FOR SOILS (mg/kg)
 (DEPTH TO GROUNDWATER < 51' BGS)

DEPTH	CHLORIDE*	TOTAL TPH	BTEX	BENZENE
0-4'	600	100	50	10
4'+	600	100	50	10

LEGEND

- BURIED PIPELINE
- PIPELINE RIGHT OF WAY
- CONFIRMATION SOIL SAMPLE GRID $200ft^2$
- SAMPLE GRID - MEETS NMOCD CLEANUP CRITERIA
- SIDE-WALL SAMPLE - MEETS NMOCD CLEANUP CRITERIA
- PAD
- APPROXIMATE SPILL AREA



Approximate Scale 20'

EARTHSTONE ENERGY
 CULEBRA BLUFF CTB3-PRODUCED WATER RELEASE
 nAPP2328543797
 EDDY COUNTY, NEW MEXICO

EXCAVATION AND SAMPLE GRID MAP

FIGURE
3



TABLE 1
Analytical Data Results Summary – Post Excavation Soil Samples (mg/kg)

**Table 1 - Analytical Data Summary -
Post Excavation Soil Samples (mg/kg)
Novo Oil Gas/Earthstone - Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797
Near Loving, Eddy County, New Mexico**

Analyte Method	Chloride 4500-CI-B	BTEX 8021B	Benzene 8021B	TPH (C6-C10) 8015M	TPH (>C10-28) 8015M	TPH (>C28-36) 8015M	TPH 8015M
Table I - Closure Criteria (0-4')	600	50	10	-	-	-	100
Table I - Closure Criteria (>4')	600	50	10	-	-	-	100
Sample ID	Sample Date						
G-2 (10-10.5')	10/21/2023	688	<0.30	<0.05	<10	<10	<10
G-2 (17-17.5')	10/24/2023	80	-	-	-	-	-
G-3 (10-10.5')	10/20/2023	512	<0.30	<0.05	<10	<10	<10
G-4 (6-6.5')	10/17/2023	144	<0.30	<0.05	<10	<10	<10
G-6 (2-2.5')	10/17/2023	3,920	<0.30	<0.05	<10	<10	<10
G-6 (17-17.5')	10/21/2023	32	<0.30	<0.05	<10	<10	<10
G-7 (10-10.5')	10/20/2023	80	<0.30	<0.05	<10	<10	<10
G-8 (6-6.5')	10/17/2023	1,880	<0.30	<0.05	<10	<10	<10
G-8 (10-10.5')	10/20/2023	16	-	-	-	-	-
G-9 (10-10.5')	10/20/2023	16	<0.30	<0.05	<10	<10	<10
G-10 (17-17.5')	10/21/2023	528	<0.30	<0.05	<10	<10	<10
G-11 (8-8.5')	10/17/2023	5,120	<0.30	<0.05	<10	<10	<10
G-11 (17-17.5')	10/21/2023	384	<0.30	<0.05	<10	<10	<10
G-12 (18-18.5')	10/21/2023	16	<0.30	<0.05	<10	<10	<10
G-13 (18-18.5')	10/21/2023	240	<0.30	<0.05	<10	<10	<10
G-14 (4-4.5')	10/17/2023	3,360	<0.30	<0.05	<10	<10	<10
G-14 (10-10.5')	10/20/2023	16	-	-	-	-	-
G-16 (3-3.5')	10/17/2023	6,000	<0.30	<0.05	<10	<10	<10
G-16 (17-17.5')	10/21/2023	656	<0.30	<0.05	<10	<10	<10
G-16 (18-18.5')	10/24/2023	784	-	-	-	-	-
G-16 (18-18.5')	10/26/2023	368	-	-	-	-	-

**Table 1 - Analytical Data Summary -
Post Excavation Soil Samples (mg/kg)
Novo Oil Gas/Earthstone - Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797
Near Loving, Eddy County, New Mexico**

Analyte Method	Chloride 4500-CI-B	BTEX 8021B	Benzene 8021B	TPH (C6-C10) 8015M	TPH (>C10-28) 8015M	TPH (>C28-36) 8015M	TPH 8015M
Table I - Closure Criteria (0-4')	600	50	10	-	-	-	100
Table I - Closure Criteria (>4')	600	50	10	-	-	-	100
Sample ID	Sample Date						
G-17 (3-3.5')	10/17/2023	10,400	<0.30	<0.05	<10	<10	<10
G-17 (17-17.5')	10/21/2023	80	<0.30	<0.05	<10	<10	<10
G-18 (18-18.5')	10/21/2023	64	<0.30	<0.05	<10	<10	<10
G-19 (18-18.5')	10/21/2023	48	<0.30	<0.05	<10	<10	<10
G-20 (4-4.5')	10/17/2023	8,800	<0.30	<0.05	<10	<10	<10
G-20 (12-12.5')	10/20/2023	304	-	-	-	-	-
G-21 (4-4.5')	10/17/2023	320	<0.30	<0.05	<10	<10	<10
G-22 (17-17.5')	10/21/2023	160	<0.30	<0.05	<10	<10	<10
G-23 (17-17.5')	10/21/2023	64	<0.30	<0.05	<10	<10	<10
G-24 (12-12.5')	10/20/2023	256	<0.30	<0.05	<10	<10	<10
G-25 (12-12.5')	10/20/2023	192	<0.30	<0.05	<10	<10	<10
G-28 (0.5-1')	10/24/2023	96	<0.30	<0.05	<10	<10	<10
G-29 (0.5-1')	10/24/2023	464	<0.30	<0.05	<10	<10	<10
G-30 (0.5-1')	10/24/2023	112	<0.30	<0.05	<10	<10	<10
G-31 (0.5-1')	10/24/2023	768	<0.30	<0.05	<10	<10	<10
G-31 (1-1.5')	10/26/2023	32	-	-	-	-	-
SW-1 (0-10')	10/24/2023	656	<0.30	<0.05	<10	<10	<10
SW-1A (0-10')	10/26/2023	528	-	-	-	-	-
SW-2 (0-6')	10/24/2023	96	<0.30	<0.05	<10	<10	<10
SW-3 (0-10')	10/24/2023	160	<0.30	<0.05	<10	<10	<10

**Table 1 - Analytical Data Summary -
Post Excavation Soil Samples (mg/kg)
Novo Oil Gas/Earthstone - Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797
Near Loving, Eddy County, New Mexico**

Analyte Method	Chloride 4500-CI-B	BTEX 8021B	Benzene 8021B	TPH (C6-C10) 8015M	TPH (>C10-28) 8015M	TPH (>C28-36) 8015M	TPH 8015M
Table I - Closure Criteria (0-4')	600	50	10	-	-	-	100
Table I - Closure Criteria (>4')	600	50	10	-	-	-	100
Sample ID	Sample Date						
SW-4 (0-10')	10/24/2023	112	<0.30	<0.05	<10	<10	<10
SW-5 (0-10')	10/24/2023	1,120	<0.30	<0.05	<10	<10	<10
SW-5A (0-10')	10/26/2023	560	-	-	-	-	-
SW-6 (0-4')	10/24/2023	704	<0.30	<0.05	<10	<10	<10
SW-6A (0-4')	10/26/2023	160	-	-	-	-	-
SW-7 (0-12')	10/24/2023	176	<0.30	<0.05	<10	<10	<10
SW-8 (0-17')	10/24/2023	336	<0.30	<0.05	<10	<10	<10
SW-9 (0-17')	10/24/2023	560	<0.30	<0.05	<10	<10	<10
SW-10 (0-17')	10/24/2023	1,340	<0.30	<0.05	<10	<10	<10
SW-10A (0-17')	10/26/2023	256	-	-	-	-	-
SW-11 (0-18')	10/24/2023	5,760	<0.30	<0.05	<10	<10	<10
SW-11A (0-18')	10/26/2023	144	-	-	-	-	-
SW-12 (0-17')	10/24/2023	1,680	<0.30	<0.05	<10	<10	<10
SW-12A (0-17')	10/26/2023	240	-	-	-	-	-
SW-13 (0-17')	10/24/2023	720	<0.30	<0.05	<10	<10	<10
SW-13A (0-17')	10/26/2023	208	-	-	-	-	-
SW-14 (0-18')	10/24/2023	208	<0.30	<0.05	<10	<10	<10
SW-15 (0-18')	10/24/2023	144	<0.30	<0.05	<10	<10	<10
SW-16 (0-12')	10/26/2023	240	<0.30	<0.05	<10	<10	<10
SW-17 (0-12')	10/26/2023	176	<0.30	<0.05	<10	<10	<10

**Table 1 - Analytical Data Summary -
 Post Excavation Soil Samples (mg/kg)
 Novo Oil Gas/Earthstone - Culebra Bluff CTB3 Produced Water Release
 Incident ID: nAPP2328543797
 Near Loving, Eddy County, New Mexico**

Analyte	Chloride	BTEX	Benzene	TPH (C6-C10)	TPH (>C10-28)	TPH (>C28-36)	TPH
Method	4500-CI-B	8021B	8021B	8015M	8015M	8015M	8015M
Table I - Closure Criteria (0-4')	600	50	10	-	-	-	100
Table I - Closure Criteria (>4')	600	50	10	-	-	-	100
Sample ID	Sample Date						

Notes:

All results are in mg/kg
 Closure Criteria Soils - Table I of 19.15.29.12 NMAC
 TPH - Total Petroleum Hydrocarbons - includes GRO, DRO, MRO
 BTEX - Benzene, Toluene, Ethylbenzene, Xylenes
 <RL - results were not detected above the Laboratory Reporting Limit
 - Not analyzed
 Bold indicates a detection above the Laboratory Sample Reporting Limit
 Shading indicates that a detected result exceeded the NMOCD Table 1 Closure Criteria Levels
 * - Closure Criteria based on depth to groundwater less than 51 feet below ground surface



APPENDIX A
Notification and Agency Correspondence

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

QUESTIONS

Action 275070

QUESTIONS

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 1001 West Wilshire Blvd Oklahoma City, OK 73116	OGRID: 372920
	Action Number: 275070
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	Culebra Bluff CTB3 Produced Water Release
Date Release Discovered	10/10/2023
Surface Owner	Federal

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Normal Operations Pipeline (Any) Produced Water Released: 50 BBL Recovered: 25 BBL Lost: 25 BBL.
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS, Page 2

Action 275070

QUESTIONS (continued)

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 1001 West Wilshire Blvd Oklahoma City, OK 73116	OGRID: 372920
	Action Number: 275070
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by 19.15.29.7(A) NMAC	Yes, major release.
Reasons why this would be considered a submission for a notification of a major release	<ul style="list-style-type: none"> Unauthorized release of a volume, excluding gases, of 25 barrels or more
If YES, was immediate notice given to the OCD, by whom	Kevin Hart with Earthstone
If YES, was immediate notice given to the OCD, to whom	NMOCD Spill Hotline email
If YES, was immediate notice given to the OCD, when	10/11/2023
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	email to hotline
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response	
<i>The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.</i>	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	All have been completed
<i>Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. 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 prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.</i>	

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ACKNOWLEDGMENTS

Action 275070

ACKNOWLEDGMENTS

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 1001 West Wilshire Blvd Oklahoma City, OK 73116	OGRID: 372920
	Action Number: 275070
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	I acknowledge the fact that 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.
<input checked="" type="checkbox"/>	I acknowledge the fact that, 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.

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

CONDITIONS

Action 275070

CONDITIONS

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 1001 West Wilshire Blvd Oklahoma City, OK 73116	OGRID: 372920
	Action Number: 275070
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
bhaney	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	10/12/2023

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1000 Rio Brazos Road, Aztec, NM 87410
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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	nAPP2328543797
District RP	
Facility ID	
Application ID	275070

Release Notification

Responsible Party

Responsible Party: Novo Oil & Gas (Earthstone Energy, Inc.)	OGRID : 372920
Contact Name: Chris Martin	Contact Telephone: 432-894-0004
Contact email: cmartin@earthstoneenergy.com	Incident # (assigned by OCD): nAPP2328543797
Contact mailing address: 600 N. Marienfeld, Suite 1000, Midland, Texas 79701	

Location of Release Source

Latitude 32.341990° Longitude -104.085981°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Culebra Bluff CTB3 Produced Water Release	Site Type: Produced Water Line (production) – off pad
Date Release Discovered: 10/10/2023 at 11:00 am	API# (if applicable)

Unit Letter	Section	Township	Range	County
P	33	T22S	R28E	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)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls): 50	Volume Recovered (bbls): 25
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The weld connection on the pipeline riser failed. This resulted in an approximate release of 50 barrels of produced water on the right-of-way and adjacent property. Volume of release was estimated based on approximate visual impacts and dimensions (approximately 60' x 80' area).

Incident ID	nAPP2328543797
District RP	
Facility ID	
Application ID	275070

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? An estimated 50-barrels of produced water was released. The 50-barrels exceeds the threshold for a minimum release.
---	---

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
NOTE: Novo Oil & Gas assets were recently purchased by Earthstone.
 Email notification of the release was provided by Kevin Hart to the NMOCD Spill Hotline on October 11, 2023 at 11:00am. Email notification of the release was also provided by Bryan Haney to Crisha Morgan (BLM) on October 12, 2023, at 11:37 am. Bryan Haney with Altamira-US (on behalf of Earthstone Energy) submitted notification of a release (NOR) on the online OCD system on October 12, 2023.

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
--

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

 All actions above have been completed. One call has been completed and excavation is scheduled to begin on 10/13/2023.

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

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

Printed Name: Kevin Hart Title: Sr HSE Advisor
 Signature:  Date: October 12, 2023
 email: khart@earthstoneenergy.com Telephone: 432-212-2081

OCD Only
 Received by: Shelly Wells Date: 10/12/2023

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

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 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 275212

CONDITIONS

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 1001 West Wilshire Blvd Oklahoma City, OK 73116	OGRID: 372920
	Action Number: 275212
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	10/12/2023

From: OCDOnline@state.nm.us
To: [Bryan Haney](#)
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 275212
Date: Thursday, October 12, 2023 4:33:08 PM

To whom it may concern (c/o Bryan Haney for NOVO OIL & GAS NORTHERN DELAWARE, LLC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2328543797, with the following conditions:

- **None**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Shelly Wells
Environmental Specialist-A
505-469-7520
Shelly.Wells@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: [Auto-Receipt](#)
To: [Bryan Haney](#)
Subject: Transaction Receipt from EMNRD OCD for \$150.00 (USD)
Date: Thursday, October 12, 2023 4:05:10 PM

Order Information

Description: Goods or Services
PO Number BGVJH-231012-C-1410

Billing Information

Bryan Haney
14229 Punta Bonaire Dr
Corpus Christi, Texas 78418-6519
US
bryan.haney@altamira-us.com
3616583126

Shipping Information

Total: \$150.00 (USD)

Payment Information

Date/Time: 12-Oct-2023 15:05:04 MDT
Transaction ID: 80071331924
Payment Method: Visa xxxx2795
Transaction Type: Purchase
Auth Code: 05143D

Merchant Contact Information

EMNRD OCD
Santa Fe, NM 87505
US
ocdfees@state.nm.us

From: OCDOnline@state.nm.us
To: [Bryan Haney](#)
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 275070
Date: Thursday, October 12, 2023 1:10:25 PM

To whom it may concern (c/o Bryan Haney for NOVO OIL & GAS NORTHERN DELAWARE, LLC),

The OCD has accepted the submitted *Notification of a release* (NOR), for incident ID (n#) nAPP2328543797, with the following conditions:

- **When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.**

Please reference nAPP2328543797, on all subsequent C-141 submissions and communications regarding the remediation of this release.

NOTE: As of December 2019, NMOCD has discontinued the use of the “RP” number.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

ocd.enviro@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505



**United States Department of Interior
Bureau of Land Management
Major Undesirable Event Report¹**

Report Type: Initial 24-Hour <input checked="" type="checkbox"/>		15-Day/Final <input type="checkbox"/>		Other/Follow-up <input type="checkbox"/>	
BLM Field Office: Carlsbad			State: New Mexico		
BLM Contact: Crisha Morgan			Date of this Report: 10-12-2023		
Company Official Reporting to BLM: Bryan Haney (Altamira-US on behalf of Novo/Earthstone)					
Operator: Novo Oil & Gas Northern Delaware, LLC/ Earthstone Energy, Inc.					
Date/Time of Occurrence: 10-10-2023 at 11:00am			Date/Time BLM Notified: 10-12-2023 11:37am		
Field/Unit Name: Purple Sage - Wolfcamp			Lease Number:		
State: NM	County: Eddy	Twp: T22S	Rng: R28E	Sec: 4	Qtr:
Lat 32.341990, Long -104.085981					
Surface Ownership: Federal		Federal: <input checked="" type="checkbox"/>	Indian: <input type="checkbox"/>	State: <input type="checkbox"/>	FEE <input type="checkbox"/>
Type and Relevant Details of Event					
Oil Spill <input type="checkbox"/>	Oil/Water Spill <input type="checkbox"/>	Gas Venting <input type="checkbox"/>	Toxic Fluid Spill <input type="checkbox"/>		
Saltwater Spill <input checked="" type="checkbox"/>	Other Spill (Specific) <input type="checkbox"/>	Blowout <input type="checkbox"/>	Fire <input type="checkbox"/>		
Injury <input type="checkbox"/>	Fatality <input type="checkbox"/>	Property Damage <input type="checkbox"/>	Explosion <input type="checkbox"/>		
Nature and Cause of Event: The weld connection on the pipeline riser failed.					
Environmental Impact: Approximately 50 bbl produced water spilled to the pipeline ROW and adjacent property. Approximate area of 60' x 80'. Soil excavation/remediation is schedule to begin on 10/13/2023.					
Time Required to Control Event (Hours) :		Est 15 minutes			
Volume Discharged or Consumed:		OIL: ___ bbls WATER: <u>50</u> bbls GAS: ___ mcf			
Volumes Recovered:		OIL: ___ bbls WATER: <u>25</u> bbls			
Net Volume Lost:		OIL: ___ bbls WATER: <u>25</u> bbls			
Action Taken to Control Event: No standing liquids. Marking area with GPS. Taking photos. Left message with BLM Spill Hotline. Initiate initial affected soil removal on September 23, 2023.					
Resulting Damage: Surface soil.					
Clean-Up Procedures: Dig and haul. Disposal at R360 or LeaLand facilities under manifest.					
Cause/Extent of Personal Injury: None.					
Actions the operator has taken or will take to prevent a recurrence of the incident: Repaired line.					
Agency Notification List: (Federal/State/Local):	Agency Name	Contact Name	Date/Time		
	BLM – Carlsbad	Crisha Morgan	10-12-2023 11:37am		
	NMOCD	Spill Hotline (email)	10-11-2023 11:00am		

¹ As required per Section III, NTL-3A, Federal Register Notice Vol. 44-No. 7, Wednesday, January 10, 1979, [NTL-3A] Reporting Of Undesirable Events, Notice to Lessees and Operators; P. 2204-2206

Remarks: Include available Major Undesirable Events (MUE) history (attach additional sheet, if needed) for the past 3 years of the same well. Include pictures, if available

Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.
6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other Instructions on page 2

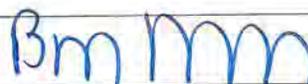
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other Soil Remediation	7. If Unit of CA/Agreement, Name and/or No.
2. Name of Operator Novo Oil & Gas / Earthstone Energy, Inc.	8. Well Name and No. Culebra Bluff CTB3
3a. Address 600 N. Marienfeld, Suite 1000, Midland, Texas 79701	9. API Well No.
3b. Phone No. (include area code) (432) 894-0004	10. Field and Pool or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Area of Soil Remediation - Unit M Section 4, T22S, R28E, 32.341990, -104.0885981	11. Country or Parish, State Eddy County, New Mexico

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other soil remediation, produced water release	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

Soil remediation is necessary to remove chloride affected soil.
The weld connection on the pipeline riser failed.
Estimated 50-bbl of produced water released into ROW and adjacent property.
Soil remediation scheduled to begin on 10/13/2023. Altamira will direct remediation activities.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Bryan Haney	Title Senior Project Manager
Signature 	Date 10/12/2023

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

From: [Bryan Haney](#)
To: [Hamlet, Robert, EMNRD](#); [Bratcher, Michael, EMNRD](#); [Morgan, Crisha A](#)
Cc: [Kevin Hart](#); [Chris Martin](#); [Montgomery Floyd](#)
Subject: nAPP2328543797 - Culebra Bluff CTB-3 Produced Water Release - NOTICE OF SOIL REMEDIATION AND CONFIRMATION SOIL SAMPLING
Date: Thursday, October 12, 2023 4:15:00 PM
Attachments: [Novo MUE Report 10-10-2023 - Rana Salada PW Release.docx](#)
[image001.png](#)
[C-141 Initial Notification 10-10-2023.pdf](#)

This release occurred on October 10, 2023. We intend to begin soil excavation and removal on October 13, 2023. Following soil removal, the excavation will be gridded and confirmation soil samples will be collected in accordance with the NMOCD guidance.

If you have any questions regarding this notice, please let us know.

Thank you,

Bryan Haney, TX P.G

Senior Project Manager | 361.658.3126 |

Corpus Christi, Texas

Bryan.Haney@altamira-us.com

altamira-us.com



From: [Bryan Haney](#)
To: [Hamlet, Robert, EMNRD](#); [Bratcher, Michael, EMNRD](#); [Morgan, Crisha A](#)
Cc: [Kevin Hart](#); [Chris Martin](#); [Montgomery Floyd](#)
Subject: nAPP2328543797 - Culebra Bluff Produced Water Release - Backfilling
Date: Friday, October 27, 2023 4:01:00 PM
Attachments: [image001.png](#)

We have completed affected soil excavation and removal along with the required grid and sidewall sampling. We plan to begin backfill activities on 10/28/2023. If you have any questions please let us know.

Thank you

Bryan Haney, TX P.G

Senior Project Manager | 361.658.3126 |

Corpus Christi, Texas

Bryan.Haney@altamira-us.com

altamira-us.com





APPENDIX B
Photographic Documentation

Appendix B
Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797



View northwest at release area located northwest of point of release

Appendix B
Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797



October 10, 2023 – view northwest at point of release and release area northwest of release

Appendix B
Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797



View of pipe point of release and release area to the northwest



View north at release area

Appendix B
Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797



View of active soil remediation south of point of release immediately adjacent to pipeline



View north at active soil excavation activities

Appendix B
Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797



View north at remedaiton area and outline of area south of pipeline rise showing minimal surface impact



View south at remedation area

Appendix B
Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797



View showing backfill of excavation area

Appendix B
Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797



View showing complete backfilled area



APPENDIX C
Field Documentation



Client: Earthstone
 Project: CTB3 Release

Page: 1 of 1
 Date: 10/16/2023
 By: OB

CTB-3 Release

- 05:00 hrs: separate release area collect samples
 personnel: Oronzo, J. Hawley, D Hopper, 3 additional Teguua crew
 0715 Arrive @ site gave soil fill tickets to Jason Hopper
 to give out to trucks that were already loaded with a
 60's
 0733 Walked spill area to verify extent of spill area
 equipment loading trucks + continuing excavation of spill
 Area. Directions were given to excavator with all wet
 soil prior to sample collection. Photos of organs were
 taken
 1300 Meeting with Jason + guide to discuss plan going forward
 + to discuss indiv. and notes
 1330 Marked out background sample locations so 800 cells
 can be made
 1320 collected preliminary sample from 8' deep area for field
 screening. Result is elevated concentration of chlorides
 spoke with Bryan about results. It was decided that we will
 collect samples from various grids to 500 where we are
 at. We will review which grids to sample in the morning
 1430 depart site, 14 trucks loaded out. Track mounted
 hammer will arrive tomorrow to break up rock to further
 advance of excavations



Client: Geothstone
Project: CTB3 Release

Page: 1 of 1
Date: 10/17/2023
By: JB

CTB3 Release

Objectives: Excavate spill Area & collect samples
personnel on site: Gonzalez, Stanley, D. Hooper.

0800 JB's Arrive onsite checked in with David Hooper. Want
to mark Background locations on maps. operator cleaning
up Area where soil/rock was placed for load out to land fill
0830 called Bryan to discuss samples to be collected to take
to lab. Samples to be collected from Grids; 4, 6, 8, 11, 14, 16, 17, 20,
& 21. will be submitted for BPx, TH, & chlorides.

1005 prepare to collect samples. Excavation cleared out to access
1015 begin sample collection

1040 Paul Martinez on site, we looked out excavation, discuss on
going efforts & plan forward

1100 depart site to deliver samples to lab

1117 called to let David & Jason know that excavator and
hammer is on the lease and ready to site.

San Mateo Tel will be on site Thursday morning to
coordinate Soil Removal adjacent to their line.

No trucks to land fill today. Trucks scheduled for
tomorrow 10/18/2023

JB



Page: _____ of _____
 Client: _____ Date: _____
 Project: _____ By: _____

0550 starting: Excavate Release Area & collect samples
 personnel: O Gonzalez, R Vinson, J Hurlay, D Lopez & 2 Additional
 Rogue Crew
 0705 Arrive onsite safety meeting conducted. Trucks to be
 onsite to load out soil & rock from west side of Excavation
 0730 Walked perimeter with GPS to verify that perimeter matches
 what was marked on GPS.
 0800 collect 4 samples from G 13, 14, 20, 21 for field screening
 All Above the background criteria need to excavate further.
 Rogue will create trench on North side of San Mateo line
 to have Area for removed soil to fall into when side wall
 is removed. San Mateo to be onsite tomorrow morning
 0800 to observe soil removal
 0850 depart site to collect backfill samples from MDS
 crushing on Refinery Road
 1000 back @ site Rogue working on soil removal for trench
 to collect side wall from San Mateo line
 1230 depart site. No further excavation until results
 from samples collected & background samples are received.



Client: Earthstone
Project: CTB3 Release

Page: 1 of 1
Date: 10/19/2023
By: JB

Objectives: Pull side walls off of San Mateo line excavate & collect background samples
Personnel: D Gonzalez, D Lopez & Hwley (2) additional people crowd.

0725 Arrived @ site tailgate safety meeting conducted. Times informed that San Mateo Ref was going to be delayed due to another release that happened at another location adjacent to their line. Trucks to be loaded with soil to take to land fill

0830 discussed excavator plan with David & Jason. We will need to excavate an additional 3' from bottom of current excavation to collect samples. Hammer being used to break up rock @ background locations. Plans to prepare sample bags & LOC's to have ready to collect samples

0931 San Mateo Ref on site prepared to start pulling side wall off line

0944 Began soil removal from San Mateo line.

1129 completed side wall removal San Mateo Ref off site

Moved equipment to begin background samples

1730 All background locations have been completed had to Altitude between hammering & excavator due to rock. Only able to get to 14" BGS due to equipment limitations. I had contacted lab regarding samples. They said that if I got samples to lab by

0800 we could have results same day. All samples will be delivered 0800 tomorrow morning. Rogue to load out excavated soils & extend excavation an additional 3'

1044 depart site



Client: Earthstone

Page: 1 of 1

Date: 10/20/2023

Project: CTB 3

By: [Signature]

05:00 Activos, takes samples from back ground to head for same day results, continue excavation, affected soils. collect samples

0630 depart for lab in Hobbs

0801 Arrive @ lab to deliver samples. Results should be ready this afternoon

0948 Arrive @ CTB3, trucks being loaded with soil. 3' of additional soil removed from bottom of excavation. Collected samples for field screening

1000 called to discuss results of field screening with PM. will need to excavate further on grids that failed field tests.

1200 sample collection begin. Grids 8, 14, 10, 25, 3, 7, 9, 24 collected. All these have passed field screening showing 2600mg/kg Hydrocarbons onsite to clean off San Mateo line for inspection

1530 depart site for lab. Total of 8 samples to be delivered

10/21/2023 plan: excavate in grids that failed field tests (4) collect & screen samples. Excavate Area south of San Mateo line

[Signature]



Client: Earthstone
Project: CTB-3 release

Page: 1 of 1
Date: 10/21/2023
By: EB

05 footcrops: (contingent) excavations & sample collection
 personnel: ~~0600~~ P Hooper, J Huntley (2) additional loggers on
 0745 Arrive site tailgate safety meeting conducted
 Hydrovac to finish cleaning San Mateo long cleanup
 0930 excavated Grids 12, 13, 18, 19 deeper to collect samples
 to screen
 1000 collected Grids 2, 6, 10, 11, 16, 17, 22, 23 to field screen
 1030 G-2 passed field screening will collect & submit to lab
 1100 collect G 13, 14, 18, 19 for field screening
 1130 field screening complete 12, 13, 18, 19 pass field screen will submit
 to lab. Had excavation on west side of OLP line excavated
 further deeper to collect samples for screening
 1230 rock on west side approx 18" thick using hammer to
 break up to be able to remove from excavator.
 1500 very low on silver nitrate for titration - will screen
 the samples from previous tests that were highest
 1600 collected samples to screen. All 3 failed. Results are
 trending down will need to excavate deeper. currently @ 15'
 bbs. will go deeper tomorrow then collect samples to submit
 to lab
 1648 depart site

EB



Client: Earthstone

Date: 10/24/2023

Project: CB 3

By: JB

Objectives: Excavate west side of DCD line to collect samples

Personnel: J Bonbrake, D Hooper, J Hundley, (2) additional rescue crew

0845 Arrive @ site. Late arrival due to fog. Starting to excavate @ 0700 + nothing to be ready to sample till later in the morning

0900 Prepared equipment for sampling, deconed Trowels connected GPs filled out logs + sample tables

1100 excavation ready to access. went in to mark sample locations

1110 Began sample collection

1130 All samples collected + incooper to deliver to lab Monday morning

1145 depart site

JB



Client: Earthstone Page: 1 of 1
Date: 10/23/2023
Project: _____ By: OB

85 sockets; deliver samples to lab plan on excavation of south spill area

Personnel: O Gonzalez, J Howley D. Hooper (2) additional loggers
0710 depart hotel to deliver samples collected over the weekend
0900 Arrived @ lab to deliver samples. Was delayed due to carpal tunnel accident on Hwy 62.

1042 Arrive on site (CTB3) Jimmy had marked out grids on south spill area will wait on Jason to discuss plan to excavate this area

1138 Jason on site talked about south area to excavate plan to remove approx 1" with excavator due to close proximity of buried power line. Will begin excavation of this area tomorrow morning when lines can be located & marked
1350 depart site



Client: Southstone
Project: CTB 3 Release
Page: 1 of 1
Date: 12/25/2023
By: DB

Objectives: Excavate Area of south spill Area collect
 side wall samples
 Personnel: D Borbadis, J Hooper J Touhey (2) additional fogue crew
 6:15 depart for site
 07:35 Arrive @ site. Re marked south spill Area grids
 to mark underground lines.
 09:00 Excavator moved to Area to begin loosening soil
 09:10 excavation begins on grids 28, 29, 30, 31
 10:30 prepare to collect grids 28, 29, 30, 31
 10:35 excavator moved to west side of excavation to get ready
 to collect grids 2 & 16 for Resamples
 11:30 Begin side wall samples 1-15
 15:00 All samples collected & in codes to take to lab
 15:15 depart site. Fogue working on drying out spoils pit
 possibly run trucks tomorrow

DB



Client: Eurhstone
Project: CTB 3 release

Page: 1 of 1
Date: 10/26/2023
By: [Signature]

05 activities: excavate side walls to collect samples
 personnel: D Hooper, A Gonzalez, J Howley (2) additional people (crew)
 0715 depart for site will stop to get file for samples on the way
 0757 Arrive on site gave pickup truck tickets to logue
 trucks on site being loaded out
 0800 Work on west side walls being done will remove 3.5' of
 side wall before samples are collected will also remove additional
 soil on North & East side walls from failed walls
 0830 discussed failed G31 with Jason. Cannot use equipment
 to excavate G31 will need to hand dig
 0900 Additional crew arrived to hand dig G31 will extend
 another 6-8" to get resample
 0943 collect SW-16 waiting on west side to be ready to
 collect samples
 1315 west side samples ready to collect. will get side walls
 12A, 11A, 12A, 17, 13A, 6A, 5A, 1A & G-16 & G-31
 1500 depart site to head to herb
 hope to continue loading trucks to landfill, wait on sample results
 to excavate any failed bricks & be ready to backfill



APPENDIX D
Waste Management Documentation



LEA LAND, LLC SURFACE WASTE LANDFILL

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

NON-HAZARDOUS WASTE MANIFEST		No. 196640	Trailer No. MENDEZ 109	
GENERATOR	Company Name: Earthstone Energy	Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		Disposal Date: 10-18-2023 09:38 AM
	Phone: (281) 298-4246			
	Name Or Description Of Waste Shipped:			
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt			
	Weight (lbs): 27120, 21360 To 48480			
Lease/Job Name: CTB 3 PRODUCE WATER RELEASE				
Generator's Representative: Bryan Haney				
TRANSPORTER	Name: LOC International			
	Emergency Contact: David Hooper			
	Emergency Contact Phone: 325-650-2320			
	Transporter: Acknowledgment of Delivery of Material			
Printed/Typed Name (Impreso/Mecanografico): <u>X Alfredo Mendez</u>				
Signature (Firma): <u>X Alfredo Mendez</u> Date: 10-18-2023 09:38 AM				
DISPOSAL FACILITY	Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		(575) 887-4048
	Permit No: NM-1-0035-New Mexico	Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.			
	Authorized Signature: 	Unit No: 11A	Date: 10-18-2023	Time: 09:38 AM

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NON-HAZARDOUS WASTE MANIFEST		No. 196644	Trailer No. MENDEZ 108		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-18-2023 09:50 AM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 26980, 28280		TC 55260		
Lease/Job Name: CTB 3 PRODUCE WATER RELEASE					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: LOC International				
	Emergency Contact: David Hooper				
	Emergency Contact Phone: 325-650-2320				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): <u>X AIF 200 B B 880 S</u>					
Signature (Firma): X <u>X AIF 200 B B 880 S</u> Date: 10-18-2023 09:50 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: 		Unit No: IIA	Date: 10-18-2023	Time: 09:50 AM	

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NON-HAZARDOUS WASTE MANIFEST		No. 196647	Trailer No. GREEN /LINES	
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380	
	Phone: (281) 298-4246		Disposal Date: 10-18-2023 09:59 AM	
	Name Or Description Of Waste Shipped:			
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt			
	Weight (lbs): 29120 10			
Lease/Job Name: CTB 3 PRODUCE WATER RELEASE				
Generator's Representative: Bryan Haney				
TRANSPORTER	Name: LOC International			
	Emergency Contact: David Hooper			
	Emergency Contact Phone: 325-650-2320			
	Transporter: Acknowledgment of Delivery of Material			
Printed/Typed Name (Impreso/Mecanografico): <u>Murilo Ozue</u>				
Signature (Firma): <u><i>[Signature]</i></u> Date: 10-18-2023 09:59 AM				
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM	
	Permit No: NM-1-0035-New Mexico		(575) 887-4048	
	Comments:			
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.			
Authorized Signature: <u><i>[Signature]</i></u>		Unit No: IIA	Date: 10-18-2023	Time: 09:59 AM

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NON-HAZARDOUS WASTE MANIFEST		No. 196659	Trailer No. MENDEZ 106	
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380	
	Phone: (281) 298-4246		Disposal Date: 10-18-2023 10:32 AM	
	Name Or Description Of Waste Shipped:			
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt			
	Weight (lbs): 21280		TO	
Lease/Job Name: CTB 3 PRODUCE WATER RELEASE				
Generator's Representative: Bryan Haney				
TRANSPORTER	Name: LOC International			
	Emergency Contact: David Hooper			
	Emergency Contact Phone: 325-650-2320			
	Transporter: Acknowledgment of Delivery of Material			
Printed/Typed Name (Impreso/Mecanografico): Julio Nunez				
Signature (Firma): X <i>Julio Nunez</i> Date: 10-18-2023 10:32 AM				
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM	
	Permit No: NM-1-0035-New Mexico		(575) 887-4048	
	Comments:			
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.			
Authorized Signature: <i>[Signature]</i>		Unit No: IIA	Date: 10-18-2023	Time: 10:32 AM

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NON-HAZARDOUS WASTE MANIFEST		No. 196661	Trailer No. MENDEZ 107		
GENERATOR	Company Name: Earthstone Energy Phone: (281) 298-4246		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		Disposal Date: 10-18-2023 10:36 AM
	Name Or Description Of Waste Shipped: <input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 5540, 34740 TO 66280				
	Lease/Job Name: CTB 3 PRODUCE WATER RELEASE				
	Generator's Representative: Bryan Haney				
TRANSPORTER	Name: LOC International				
	Emergency Contact: David Hooper				
	Emergency Contact Phone: 325-650-2320				
	Transporter: Acknowledgment of Delivery of Material Printed/Typed Name (Impreso/Mecanografico): <u>Oswaldo Valdez</u> Signature (Firma): X <u>Oswaldo Valdez</u> Date: 10-18-2023 10:36 AM				
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		(575) 887-4048
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
	Authorized Signature: 		Unit No: IIA	Date: 10-18-2023	Time: 10:36 AM

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NON-HAZARDOUS WASTE MANIFEST		No. 196662	Trailer No. M&J 103		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-18-2023 10:44 AM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 21260 10				
Lease/Job Name: CTB 3 PRODUCE WATER RELEASE					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: LOC International				
	Emergency Contact: David Hooper				
	Emergency Contact Phone: 325-650-2320				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): X <u>Ricardo Trevino</u>					
Signature (Firma): X <u>Ricardo Trevino</u> Date: 10-18-2023 10:44 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
	Authorized Signature: 		Unit No: IIA	Date: 10-18-2023	Time: 10:44 AM

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NON-HAZARDOUS WASTE MANIFEST		No. 196732	Trailer No. KODIAK 01	
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380	
	Phone: (281) 298-4246		Disposal Date: 10-19-2023 09:51 AM	
	Name Or Description Of Waste Shipped:			
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt			
	Weight (lbs): 30900 TO			
TRANSPORTER	Lease/Job Name: CULEBRA BLUFF			
	Generator's Representative: Bryan Haney			
	Name: Kodiak Oilfield Services			
	Emergency Contact: Sonia			
	Emergency Contact Phone: (575) 706-1350			
DISPOSAL FACILITY	Transporter: Acknowledgment of Delivery of Material			
	Printed/Typed Name (Impreso/Mecanografico): <u>Ridchel LIMA</u>			
	Signature (Firma): <u><i>[Signature]</i></u> Date: 10-19-2023 09:51 AM			
	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM	
	Permit No: NM-1-0035-New Mexico		(575) 887-4048	
Comments:				
Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <u><i>[Signature]</i></u>		Unit No: IIA	Date: 10-19-2023	Time: 09:51 AM

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NON-HAZARDOUS WASTE MANIFEST		No. 196737	Trailer No. KODIAK 91	
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380	
	Phone: (281) 298-4246		Disposal Date: 10-19-2023 10:10 AM	
	Name Or Description Of Waste Shipped:			
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt			
	Weight (lbs): 24400 TA			
TRANSPORTER	Lease/Job Name: CULEBRA BLUFF			
	Generator's Representative: Bryan Haney			
	Name: Kodiak Oilfield Services			
	Emergency Contact: Sonia			
	Emergency Contact Phone: (575) 706-1350			
DISPOSAL FACILITY	Transporter: Acknowledgment of Delivery of Material			
	Printed/Typed Name (Impreso/Mecanografico): _____			
	Signature (Firma): X		Date: 10-19-2023 10:10 AM	
	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM	
	Permit No: NM-1-0035-New Mexico		(575) 887-4048	
Comments:				
Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature:		Unit No: IIA	Date: 10-19-2023	Time: 10:10 AM

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LEA LAND, LLC SURFACE WASTE LANDFILL

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NON-HAZARDOUS WASTE MANIFEST		No. 196738	Trailer No. KODIAK 08	
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380	
	Phone: (281) 298-4246		Disposal Date: 10-19-2023 10:15 AM	
	Name Or Description Of Waste Shipped:			
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt			
	Weight (lbs): 31940 Te			
TRANSPORTER	Lease/Job Name: CULEBRA BLUFF			
	Generator's Representative: Bryan Haney			
	Name: Kodiak Oilfield Services			
	Emergency Contact: Sonia			
	Emergency Contact Phone: (575) 706-1350			
DISPOSAL FACILITY	Transporter: Acknowledgment of Delivery of Material			
	Printed/Typed Name (Impreso/Mecanografico): / Bernardo			
	Signature (Firma): X / <i>[Signature]</i>			Date: 10-19-2023 10:15 AM
	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM	
	Permit No: NM-1-0035-New Mexico		(575) 887-4048	
Comments:				
Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <i>[Signature]</i>		Unit No: IIA	Date: 10-19-2023	Time: 10:15 AM

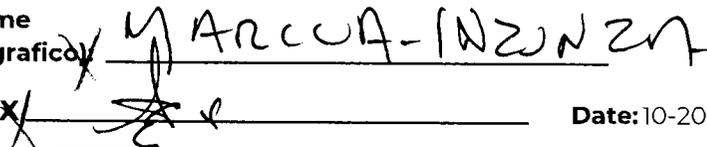
LEA LAND, LLC
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LEA LAND, LLC SURFACE WASTE LANDFILL

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

NON-HAZARDOUS WASTE MANIFEST		No. 196849	Trailer No. VJ 13		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-20-2023 01:06 PM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 46240		TC		
Lease/Job Name: CTB 3 PRODUCE WATER RELEASE					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: LOC International				
	Emergency Contact: David Hooper				
	Emergency Contact Phone: 325-650-2320				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): MARCOA-INZUNZA					
Signature (Firma):  Date: 10-20-2023 01:06 PM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: 		Unit No: IIA	Date: 10-20-2023	Time: 01:06 PM	

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NON-HAZARDOUS WASTE MANIFEST		No. 196850	Trailer No. M&J WHITE
GENERATOR	Company Name: Earthstone Energy	Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380	Disposal Date: 10-20-2023 01:19 PM
	Phone: (281) 298-4246		
	Name Or Description Of Waste Shipped: <input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt		
	Weight (lbs): 43360 TC		
	Lease/Job Name: CTB 3 PRODUCE WATER RELEASE		
Generator's Representative: Chris Martin			
TRANSPORTER	Name: LOC International		
	Emergency Contact: David Hooper		
	Emergency Contact Phone: 325-650-2320		
	Transporter: Acknowledgment of Delivery of Material Printed/Typed Name (Impreso/Mecanografico): <i>Y. Dregso Valero</i> Signature (Firma): <i>[Signature]</i> Date: 10-20-2023 01:19 PM		
DISPOSAL FACILITY	Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM	(575) 887-4048
	Permit No: NM-1-0035-New Mexico	Comments:	
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.		
	Authorized Signature: <i>[Signature]</i>	Unit No: IIA	Date: 10-20-2023

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NON-HAZARDOUS WASTE MANIFEST		No. 196851	Trailer No. M&J 9		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-20-2023 01:21 PM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 43920		TA		
Lease/Job Name: CTB 3 PRODUCE WATER RELEASE					
Generator's Representative: Chris Martin					
TRANSPORTER	Name: LOC International				
	Emergency Contact: David Hooper				
	Emergency Contact Phone: 325-650-2320				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): <u>ADOLFO BARRÓN</u>					
Signature (Firma): X <u>[Signature]</u> Date: 10-20-2023 01:21 PM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <u>[Signature]</u>		Unit No: IIA	Date: 10-20-2023	Time: 01:21 PM	

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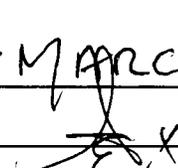
NON-HAZARDOUS WASTE MANIFEST		No. 196854	Trailer No. VJ 16		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-20-2023 01:39 PM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 35380				
Lease/Job Name: CTB 3 PRODUCE WATER RELEASE					
Generator's Representative: Chris Martin					
TRANSPORTER	Name: LOC International				
	Emergency Contact: David Hooper				
	Emergency Contact Phone: 325-650-2320				
Transporter: Acknowledgment of Delivery of Material					
Printed/Typed Name (Impreso/Mecanografico): <u>Humberto Cardenas</u>					
Signature (Firma): X <u>[Signature]</u> Date: 10-20-2023 01:39 PM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
	Authorized Signature: <u>[Signature]</u>		Unit No: IIA	Date: 10-20-2023	Time: 01:39 PM

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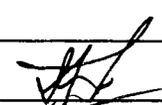
NON-HAZARDOUS WASTE MANIFEST		No. 196860	Trailer No. VJ14# 13		
GENERATOR	Company Name: Earthstone Energy Phone: (281) 298-4246		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		Disposal Date: 10-20-2023 03:52 PM
	Name Or Description Of Waste Shipped: <input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 91460				
	Lease/Job Name: CTB 3 PRODUCE WATER RELEASE				
	Generator's Representative: Chris Martin				
TRANSPORTER	Name: LOC International Emergency Contact: David Hooper Emergency Contact Phone: 325-650-2320				
	Transporter: Acknowledgment of Delivery of Material Printed/Typed Name (Impreso/Mecanografico): MARCO A. INZONZA				
	Signature (Firma): X X  X Date: 10-20-2023 03:52 PM				
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		(575) 887-4048
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
	Authorized Signature: 		Unit No: IIA	Date: 10-20-2023	Time: 03:52 PM

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NON-HAZARDOUS WASTE MANIFEST		No. 196797	Trailer No. KODIAK 08
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380
	Phone: (281) 298-4246		Disposal Date: 10-20-2023 09:16 AM
	Name Or Description Of Waste Shipped:		
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt		
	Weight (lbs): 42580, 49980, 47080 TC139640		
Lease/Job Name: CULEBRA BLUFF			
Generator's Representative: Bryan Haney			
TRANSPORTER	Name: Kodiak Oilfield Services		
	Emergency Contact: Sonia		
	Emergency Contact Phone: (575) 706-1350		
	Transporter: Acknowledgment of Delivery of Material		
Printed/Typed Name (Impreso/Mecanografico): _____			
Signature (Firma):  _____ Date: 10-20-2023 09:16 AM			
DISPOSAL FACILITY	Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM	
	Permit No: NM-1-0035-New Mexico	(575) 887-4048	
	Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.		
Authorized Signature: 		Unit No: IIA	Date 10-20-2023
		Time 09:16 AM	

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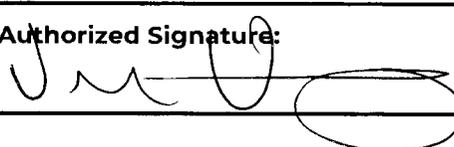
NON-HAZARDOUS WASTE MANIFEST		No. 196798	Trailer No. KODIAK 91		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-20-2023 09:19 AM		
	Name Or Description Of Waste Shipped:				
	<input type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 41580, 36660, 46280 Total 124520				
Lease/Job Name: CULEBRA BLUFF					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): <u>Rafael</u>					
Signature (Firma): <u>[Signature]</u> Date: 10-20-2023 09:19 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
	Permit No: NM-1-0035-New Mexico		(575) 887-4048		
	Comments:				
	Disposal Facility's Certification: I hereby certify that the above-described wastes were delivered to this facility.				
Authorized Signature: <u>[Signature]</u>		Unit No: IIA	Date: 10-20-2023	Time: 09:19 AM	

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NON-HAZARDOUS WASTE MANIFEST		No. 196799	Trailer No. KODIAK 60		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-20-2023 09:22 AM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 48720, 47840, 50220 Te 146780				
Lease/Job Name: CULEBRA BLUFF					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico) _____					
Signature (Firma): X  _____ Date: 10-20-2023 09:22 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: 		Unit No: IIA	Date: 10-20-2023	Time: 09:22 AM	

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NON-HAZARDOUS WASTE MANIFEST		No. 196808	Trailer No. KODIAK 95		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-20-2023 09:45 AM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 48740, 46320, 42120 TC 137180				
Lease/Job Name: CULEBRA BLUFF					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): Y Alexander					
Signature (Firma): <i>[Signature]</i> Date: 10-20-2023 09:45 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <i>[Signature]</i>			Unit No: IIA	Date: 10-20-2023	
			Time: 09:45 AM		

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NON-HAZARDOUS WASTE MANIFEST		No. 196809	Trailer No. KODIAK 01		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-20-2023 09:46 AM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 42620, 47540, 48980 TC 139140				
Lease/Job Name: CULEBRA BLUFF					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): <u>Ridchel LIMA</u>					
Signature (Firma): <u><i>[Signature]</i></u> Date: 10-20-2023 09:46 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
	Permit No: NM-1-0035-New Mexico		(575) 887-4048		
	Comments:				
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <u><i>[Signature]</i></u>			Unit No: IIA	Date: 10-20-2023	
			Time: 09:46 AM		

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NON-HAZARDOUS WASTE MANIFEST		No. 196810	Trailer No. KODIAK 02		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-20-2023 09:48 AM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 46820, 38380, 41360 1012650				
Lease/Job Name: CULEBRA BLUFF					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
Transporter: Acknowledgment of Delivery of Material					
Printed/Typed Name (Impreso/Mecanografico): <u>Y. MARIO</u>					
Signature (Firma): <u>X Y. MARIO</u> Date: 10-20-2023 09:48 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <u>[Signature]</u>		Unit No: IIA	Date: 10-20-2023	Time: 09:48 AM	

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NON-HAZARDOUS WASTE MANIFEST		No. 196891	Trailer No. KODIAK 91		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-23-2023 09:20 AM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 50840 49160 34740 41640 TW 176380				
Lease/Job Name: CULEBRA BLUFF					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): <u>Rafael</u>					
Signature (Firma): X <u>[Signature]</u> Date: 10-23-2023 09:20 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <u>M. Sanchez</u>		Unit No: 11A	Date: 10-23-2023	Time: 09:20 AM	

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NON-HAZARDOUS WASTE MANIFEST		No. 196892	Trailer No. KODIAK 08		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-23-2023 09:23 AM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 45460 46140 47640 46920 ⑩ 186160				
Lease/Job Name: CULEBRA BLUFF					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
Transporter: Acknowledgment of Delivery of Material					
Printed/Typed Name (Impreso/Mecanografico): <u> Bernardo </u>					
Signature (Firma): X <u> <i>[Signature]</i> </u> Date: 10-23-2023 09:23 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature:		Unit No: IIA	Date: 10-23-2023	Time: 09:23 AM	

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NON-HAZARDOUS WASTE MANIFEST		No. 196895	Trailer No. KODIAK 95		
GENERATOR	Company Name: Earthstone Energy Phone: (281) 298-4246		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Disposal Date: 10-23-2023 09:31 AM				
	Name Or Description Of Waste Shipped: <input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 49960 50160 39780 47160 TD 187060				
	Lease/Job Name: CULEBRA BLUFF				
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
Transporter: Acknowledgment of Delivery of Material					
Printed/Typed Name (Impreso/Mecanografico): VAlexander					
Signature (Firma): X <i>[Signature]</i> Date: 10-23-2023 09:31 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <i>[Signature]</i>		Unit No: IIA	Date: 10-23-2023	Time: 09:31 AM	

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NON-HAZARDOUS WASTE MANIFEST		No. 196896	Trailer No. KODIAK 01		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-23-2023 09:33 AM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 45140 42160 43640 44160 @ 175100				
Lease/Job Name: CULEBRA BLUFF					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): <u>Richel LIMA</u>					
Signature (Firma): X <u>[Signature]</u> Date: 10-23-2023 09:33 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <u>[Signature]</u>		Unit No: IIA	Date: 10-23-2023	Time: 09:33 AM	

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LEA LAND, LLC SURFACE WASTE LANDFILL

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

NON-HAZARDOUS WASTE MANIFEST		No. 196898	Trailer No. KODIAK 97		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-23-2023 09:40 AM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 45020 42160 43160 44140 @ 174480				
Lease/Job Name: CULEBRA BLUFF					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): <i>Thalbo</i>					
Signature (Firma): X <i>Thalbo</i> Date: 10-23-2023 09:40 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <i>M Sanchez</i>		Unit No: IIA	Date: 10-23-2023	Time: 09:40 AM	

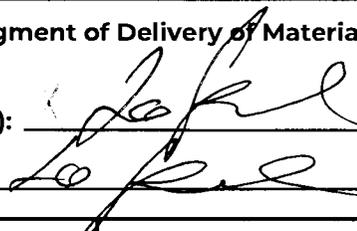
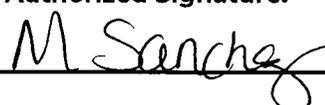
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NON-HAZARDOUS WASTE MANIFEST		No. 196902	Trailer No. KODIAK 60		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-23-2023 09:53 AM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 41840 42160 43160 T@ 127160				
Lease/Job Name: CULEBRA BLUFF					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
Transporter: Acknowledgment of Delivery of Material					
Printed/Typed Name (Impreso/Mecanografico): _____					
Signature (Firma): X  Date: 10-23-2023 09:53 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: 		Unit No: IIA	Date: 10-23-2023	Time: 09:53 AM	

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NON-HAZARDOUS WASTE MANIFEST		No. 197035	Trailer No. JOZAM 0360		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-26-2023 09:51 AM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 30840, 32140 - to 68980				
Lease/Job Name: CTB3 PRODUCE WATER RELEASE					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: LOC International				
	Emergency Contact: David Hooper				
	Emergency Contact Phone: 325-650-2320				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): Jose Zamora					
Signature (Firma): X  Date: 10-26-2023 09:51 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
	Permit No: NM-1-0035-New Mexico		(575) 887-4048		
	Comments:				
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: 		Unit No: IIA	Date: 10-26-2023	Time: 09:51 AM	

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NON-HAZARDOUS WASTE MANIFEST		No. 197036	Trailer No. JOZAM 3668		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-26-2023 09:56 AM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 35000, 36,100 TP 71120				
Lease/Job Name: CTB3 PRODUCE WATER RELEASE					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: LOC International				
	Emergency Contact: David Hooper				
	Emergency Contact Phone: 325-650-2320				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): <u>MATEO Zamora</u>					
Signature (Firma): <u>X MATEO ZAMORA</u> Date: 10-26-2023 09:56 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: 		Unit No: IIA	Date: 10-26-2023	Time: 09:56 AM	

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NON-HAZARDOUS WASTE MANIFEST		No. 197037	Trailer No. JOZAM 6321		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-26-2023 09:57 AM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 47760, 41640 + @ 89400				
Lease/Job Name: CTB3 PRODUCE WATER RELEASE					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: LOC International				
	Emergency Contact: David Hooper				
	Emergency Contact Phone: 325-650-2320				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico) <u>Albert Lopez</u>					
Signature (Firma): <u>X A.L</u> Date: 10-26-2023 09:57 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
	Permit No: NM-1-0035-New Mexico		(575) 887-4048		
	Comments:				
	Disposal Facility's Certification: I Hereby Certify That The Above Described Wastes Were Delivered To This Facility.				
Authorized Signature: <u>[Signature]</u>		Unit No: IIA	Date: 10-26-2023	Time: 09:57 AM	

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NON-HAZARDOUS WASTE MANIFEST		No. 197038	Trailer No. JOZAM 4851		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-26-2023 10:03 AM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 31340, 32140 TO 63480				
Lease/Job Name: CTB 3 PRODUCE WATER RELEASE					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: LOC International				
	Emergency Contact: David Hooper				
	Emergency Contact Phone: 325-650-2320				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): <u>Nestor Bucio</u>					
Signature (Firma): X <u>Bucio</u> Date: 10-26-2023 10:03 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: 		Unit No: IIA	Date: 10-26-2023	Time: 10:03 AM	

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NON-HAZARDOUS WASTE MANIFEST		No. 197043	Trailer No. RICO & SON 14		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-26-2023 10:23 AM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 49350, 48760 + @ 98100				
Lease/Job Name: CTB 3 PRODUCE WATER RELEASE					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: LOC International				
	Emergency Contact: David Hooper				
	Emergency Contact Phone: 325-650-2320				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): <u>Manuel Rico</u>					
Signature (Firma): X <u>[Signature]</u> Date: 10-26-2023 10:23 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
	Permit No: NM-1-0035-New Mexico		(575) 887-4048		
	Comments:				
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <u>[Signature]</u>		Unit No: IIA	Date: 10-26-2023	Time: 10:23 AM	

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NON-HAZARDOUS WASTE MANIFEST		No. 197044	Trailer No. RICO & SON 07		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-26-2023 10:25 AM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 40220, 41640 T@ 81860				
Lease/Job Name: CTB 3 PRODUCE WATER RELEASE					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: LOC International				
	Emergency Contact: David Hooper				
	Emergency Contact Phone: 325-650-2320				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico):					
Signature (Firma): X <i>ALONSO BARRAZA</i> Date: 10-26-2023 10:25 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <i>[Signature]</i>		Unit No: IIA	Date: 10-26-2023	Time: 10:25 AM	

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NON-HAZARDOUS WASTE MANIFEST		No. 197045	Trailer No. RICO & SON 01		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-26-2023 10:26 AM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 43440, 42760 + @ 86200				
Lease/Job Name: CTB 3 PRODUCE WATER RELEASE					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: LOC International				
	Emergency Contact: David Hooper				
	Emergency Contact Phone: 325-650-2320				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): <i>Martin Valdivia</i>					
Signature (Firma): <i>[Signature]</i> Date: 10-26-2023 10:26 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <i>[Signature]</i>		Unit No: IIA	Date: 10-26-2023	Time: 10:26 AM	

LEA LAND, LLC

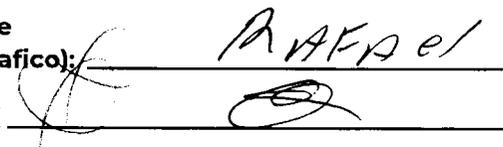
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NON-HAZARDOUS WASTE MANIFEST		No. 197020	Trailer No. KODIAK 91		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-26-2023 09:02 AM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 49120, 42160, 43160, 45760				
Lease/Job Name: CULEBRA BLUFF		TR 180 200			
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): Rafael					
Signature (Firma): X  Date: 10-26-2023 09:02 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: 		Unit No: IIA	Date: 10-26-2023	Time: 09:02 AM	

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NON-HAZARDOUS WASTE MANIFEST		No. 197022	Trailer No. KODIAK 95		
GENERATOR	Company Name: Earthstone Energy Phone: (281) 298-4246		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		Disposal Date: 10-26-2023 09:10 AM
	Name Or Description Of Waste Shipped: <input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 47020, 45160, 42140, 43160				
	Lease/Job Name: CULEBRA BLUFF T@177480				
	Generator's Representative: Bryan Haney				
TRANSPORTER	Name: Kodiak Oilfield Services Emergency Contact: Sonia Emergency Contact Phone: (575) 706-1350				
	Transporter: Acknowledgment of Delivery of Material Printed/Typed Name (Impreso/Mecanografico): <u>Y Alexander</u>				
	Signature (Firma): <u><i>[Signature]</i></u> Date: 10-26-2023 09:10 AM				
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		(575) 887-4048
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
	Authorized Signature: <u><i>[Signature]</i></u>		Unit No: IIA	Date: 10-26-2023	Time: 09:10 AM

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NON-HAZARDOUS WASTE MANIFEST		No. 197023	Trailer No. KODIAK 02		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-26-2023 09:12 AM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 49440, 42160, 43160, 42160				
Lease/Job Name: CULEBRA BLUFF		TE@176920			
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
Transporter: Acknowledgment of Delivery of Material					
Printed/Typed Name (Impreso/Mecanografico): <u>Mario</u>					
Signature (Firma): X <u>Mario</u> Date: 10-26-2023 09:12 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <u>[Signature]</u>		Unit No: IIA	Date: 10-26-2023	Time: 09:12 AM	

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NON-HAZARDOUS WASTE MANIFEST		No. 197031	Trailer No. KODIAK 08		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-26-2023 09:38 AM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 43840, 42100, 44760 + @ 130700				
Lease/Job Name: CULEBRA BLUFF					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): <u>Bernardo</u>					
Signature (Firma): <u>[Signature]</u> Date: 10-26-2023 09:38 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
	Permit No: NM-1-0035-New Mexico		(575) 887-4048		
	Comments:				
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <u>[Signature]</u>			Unit No: IIA	Date: 10-26-2023	
			Time: 09:38 AM		

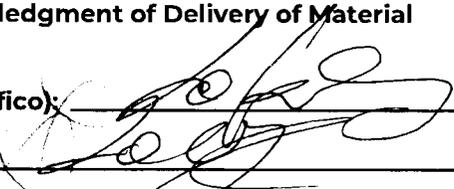
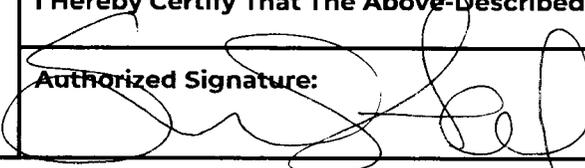
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NON-HAZARDOUS WASTE MANIFEST		No. 197032	Trailer No. KODIAK 60		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-26-2023 09:41 AM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 47460, 42180, 43140 + @ 132780				
Lease/Job Name: CULEBRA BLUFF					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): _____					
Signature (Firma): X  Date: 10-26-2023 09:41 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: 		Unit No: IIA	Date: 10-26-2023	Time: 09:41 AM	

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NON-HAZARDOUS WASTE MANIFEST		No. 197110	Trailer No. KODIAK 08		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-27-2023 09:32 AM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 39940, 35980, 38920 T@ 114840				
Lease/Job Name: CULEBRA BLUFF					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): <u>Bernardo</u>					
Signature (Firma): X <u>[Signature]</u> Date: 10-27-2023 09:32 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <u>M. Sanchez</u>		Unit No: 11A	Date: 10-27-2023	Time: 09:32 AM	

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NON-HAZARDOUS WASTE MANIFEST		No. 197111	Trailer No. KODIAK 91		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-27-2023 09:34 AM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 39940, 39820, 38760 TA 118520				
Lease/Job Name: CULEBRA BLUFF					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): <u>Rafael</u>					
Signature (Firma): X <u>[Signature]</u> Date: 10-27-2023 09:34 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <u>M Sanchez</u>		Unit No: IIA	Date: 10-27-2023	Time: 09:34 AM	

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NON-HAZARDOUS WASTE MANIFEST		No. 197112	Trailer No. KODIAK 95		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-27-2023 09:36 AM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 37680, 41620 TO 79300				
Lease/Job Name: CULEBRA BLUFF					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): <u>Y Alexander</u>					
Signature (Firma): <u><i>[Signature]</i></u> Date: 10-27-2023 09:36 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
	Authorized Signature: <u><i>M Sanchez</i></u>		Unit No: IIA	Date: 10-27-2023	Time: 09:36 AM

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NON-HAZARDOUS WASTE MANIFEST		No. 197130	Trailer No. KODIAK 60		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-27-2023 11:07 AM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 44780, 39220 TO 84000				
Lease/Job Name: CULEBRA BLUFF					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): <i>[Signature]</i>					
Signature (Firma): X <i>[Signature]</i> Date: 10-27-2023 11:07 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <i>M Sanchez</i>		Unit No: IIA	Date: 10-27-2023	Time: 11:07 AM	

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NON-HAZARDOUS WASTE MANIFEST		No. 197138	Trailer No. KODIAK 02		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-27-2023 11:46 AM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 47640		T ₀		
Lease/Job Name: CULEBRA BLUFF					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): _____					
Signature (Firma): X <i>[Signature]</i> Date: 10-27-2023 11:46 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <i>M Sanchez</i>		Unit No: IIA	Date: 10-27-2023	Time: 11:46 AM	

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NON-HAZARDOUS WASTE MANIFEST		No. 197140	Trailer No. KODIAK 01		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-27-2023 11:54 AM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 41720, 43940 TO 85660				
Lease/Job Name: CULEBRA BLUFF					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
Transporter: Acknowledgment of Delivery of Material					
Printed/Typed Name (Impreso/Mecanografico): Rachel LIMA					
Signature (Firma): X <i>[Signature]</i> Date: 10-27-2023 11:54 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <i>[Signature]</i>		Unit No: IIA	Date: 10-27-2023	Time: 11:54 AM	

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NON-HAZARDOUS WASTE MANIFEST		No. 197144	Trailer No. STG 22		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-27-2023 12:13 PM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 18320		10		
Lease/Job Name: CULEBRA BLUFF					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): <u>Eduardo Salazar</u>					
Signature (Firma): X <u>Eduardo Salazar</u> Date: 10-27-2023 12:13 PM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <u>M. Sanchez</u>		Unit No: IIA	Date: 10-27-2023	Time: 12:13 PM	

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NON-HAZARDOUS WASTE MANIFEST		No. 197146	Trailer No. LG BROS. 337		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-27-2023 12:42 PM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 11620				
Lease/Job Name: CULEBRA BLUFF					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): <u>Rogberto Garcia</u>					
Signature (Firma): X <u>[Signature]</u> Date: 10-27-2023 12:42 PM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
	Permit No: NM-1-0035-New Mexico		(575) 887-4048		
	Comments:				
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <u>[Signature]</u>		Unit No: IIA	Date: 10-27-2023	Time: 12:42 PM	

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NON-HAZARDOUS WASTE MANIFEST		No. 197147	Trailer No. REYES 06		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-27-2023 12:45 PM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 18120				
Lease/Job Name: CULEBRA BLUFF					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): <u>Alex Lopez</u>					
Signature (Firma): X <u>Alex Lopez</u> Date: 10-27-2023 12:45 PM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <u>M Sanchez</u>			Unit No: IIA	Date: 10-27-2023	
				Time: 12:45 PM	

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NON-HAZARDOUS WASTE MANIFEST		No. 197148	Trailer No. REYES 08		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-27-2023 12:47 PM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 18580				
Lease/Job Name: CULEBRA BLUFF					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): <u>X ALDO GAZIMILY</u>					
Signature (Firma): X <u>Aldo G</u> Date: 10-27-2023 12:47 PM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <u>M Sanchez</u>		Unit No: IIA	Date: 10-27-2023	Time: 12:47 PM	

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NON-HAZARDOUS WASTE MANIFEST		No. 197149	Trailer No. MARY'S 4	
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380	
	Phone: (281) 298-4246		Disposal Date: 10-27-2023 12:49 PM	
	Name Or Description Of Waste Shipped:			
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt			
	Weight (lbs): 20560			
TRANSPORTER	Lease/Job Name: CULEBRA BLUFF			
	Generator's Representative: Bryan Haney			
	Name: Kodiak Oilfield Services			
	Emergency Contact: Sonia			
	Emergency Contact Phone: (575) 706-1350			
DISPOSAL FACILITY	Transporter: Acknowledgment of Delivery of Material			
	Printed/Typed Name (Impreso/Mecanografico): <u>Maria Galindo</u>			
	Signature (Firma): X <u>Maria Galindo</u>		Date: 10-27-2023 12:49 PM	
	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM	
Permit No: NM-1-0035-New Mexico		(575) 887-4048		
Comments:				
Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <u>M. Sanchez</u>		Unit No: IIA	Date: 10-27-2023	Time: 12:49 PM

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NON-HAZARDOUS WASTE MANIFEST		No. 197150	Trailer No. JP 04	
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380	
	Phone: (281) 298-4246		Disposal Date: 10-27-2023 12:59 PM	
	Name Or Description Of Waste Shipped:			
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt			
	Weight (lbs): 19840			
TRANSPORTER	Lease/Job Name: CULEBRA BLUFF			
	Generator's Representative: Bryan Haney			
	Name: Kodiak Oilfield Services			
	Emergency Contact: Sonia			
	Emergency Contact Phone: (575) 706-1350			
DISPOSAL FACILITY	Transporter: Acknowledgment of Delivery of Material			
	Printed/Typed Name (Impreso/Mecanografico): <u>Jesus Leyva</u>			
	Signature (Firma): X <u>[Signature]</u> Date: 10-27-2023 12:59 PM			
	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM	
Permit No: NM-1-0035-New Mexico		Comments:		
Disposal Facility's Certification: I hereby certify that the above-described wastes were delivered to this facility.				
Authorized Signature: <u>[Signature]</u>		Unit No: IIA	Date: 10-27-2023	Time: 12:59 PM

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NON-HAZARDOUS WASTE MANIFEST		No. 197151	Trailer No. J&R TRANSP. 5		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-27-2023 01:02 PM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 12220				
Lease/Job Name: CULEBRA BLUFF					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): <u>Leonardo Caro</u>					
Signature (Firma): X <u>Leonardo Caro</u> Date: 10-27-2023 01:02 PM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <u>M. Sandef</u>		Unit No: IIA	Date: 10-27-2023	Time: 01:02 PM	

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NON-HAZARDOUS WASTE MANIFEST		No. 197152	Trailer No. J&R TRANSP. 01		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-27-2023 01:05 PM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 20380				
Lease/Job Name: CULEBRA BLUFF					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): <u>Fidel</u>					
Signature (Firma): X <u>[Signature]</u> Date: 10-27-2023 01:05 PM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
	Authorized Signature:		Unit No: IIA	Date: 10-27-2023	Time: 01:05 PM

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NON-HAZARDOUS WASTE MANIFEST		No. 197153	Trailer No. JP 5		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-27-2023 01:07 PM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 19540				
Lease/Job Name: CULEBRA BLUFF					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): <u>Adolfo Lopez</u>					
Signature (Firma): X <u>[Signature]</u> Date: 10-27-2023 01:07 PM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
	Permit No: NM-1-0035-New Mexico		(575) 887-4048		
	Comments:				
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <u>M Sanchez</u>		Unit No: IIA	Date: 10-27-2023	Time: 01:07 PM	

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NON-HAZARDOUS WASTE MANIFEST		No. 197154	Trailer No. JP 03	
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380	
	Phone: (281) 298-4246		Disposal Date: 10-27-2023 01:10 PM	
	Name Or Description Of Waste Shipped:			
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt			
	Weight (lbs): 25526			
TRANSPORTER	Lease/Job Name: CULEBRA BLUFF			
	Generator's Representative: Bryan Haney			
	Name: Kodiak Oilfield Services			
	Emergency Contact: Sonia			
	Emergency Contact Phone: (575) 706-1350			
DISPOSAL FACILITY	Transporter: Acknowledgment of Delivery of Material			
	Printed/Typed Name (Impreso/Mecanografico): <u>Jose Perez</u>			
	Signature (Firma): X <u>[Signature]</u>			Date: 10-27-2023 01:10 PM
	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM	
Permit No: NM-1-0035-New Mexico		(575) 887-4048		
Comments:				
Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <u>M Sanchez</u>		Unit No: IIA	Date: 10-27-2023	Time: 01:10 PM

LEA LAND, LLC
1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257



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LEA LAND, LLC SURFACE WASTE LANDFILL

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

NON-HAZARDOUS WASTE MANIFEST		No. 197155	Trailer No. GLEZZ 23		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-27-2023 01:19 PM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 34980				
Lease/Job Name: CULEBRA BLUFF					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): <u>Eladio Garcia</u>					
Signature (Firma): X <u>Eladio Garcia</u> Date: 10-27-2023 01:19 PM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <u>M Sanchez</u>		Unit No: IIA	Date: 10-27-2023	Time: 01:19 PM	

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NON-HAZARDOUS WASTE MANIFEST		No. 197156	Trailer No. BETO'S 01		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-27-2023 01:26 PM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 33840				
Lease/Job Name: CULEBRA BLUFF					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): <u>JAIR CABERON</u>					
Signature (Firma): X <u>[Signature]</u> Date: 10-27-2023 01:26 PM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <u>[Signature]</u>		Unit No: IIA	Date: 10-27-2023	Time: 01:26 PM	

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LEA LAND, LLC SURFACE WASTE LANDFILL

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NON-HAZARDOUS WASTE MANIFEST		No. 197157	Trailer No. P&C 22		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-27-2023 01:29 PM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 22720				
Lease/Job Name: CULEBRA BLUFF					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): <u>CHRISTINA MICHEN</u>					
Signature (Firma): X <u>[Signature]</u> Date: 10-27-2023 01:29 PM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
	Authorized Signature: <u>[Signature]</u>		Unit No: IIA	Date: 10-27-2023	Time: 01:29 PM

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LEA LAND, LLC SURFACE WASTE LANDFILL

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

NON-HAZARDOUS WASTE MANIFEST		No. 197158	Trailer No. BETO'S 03		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-27-2023 01:32 PM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 23400				
Lease/Job Name: CULEBRA BLUFF					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services				
	Emergency Contact: Sonia				
	Emergency Contact Phone: (575) 706-1350				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): <u>Manuel OCHOA</u>					
Signature (Firma): X <u>[Signature]</u> Date: 10-27-2023 01:32 PM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
	Authorized Signature: <u>[Signature]</u>		Unit No: IIA	Date: 10-27-2023	Time: 01:32 PM

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NON-HAZARDOUS WASTE MANIFEST		No. 196486	Trailer No. VJ 14		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-16-2023 08:57 AM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 32980, 35960 TC 68940				
Lease/Job Name: CTB 3 PRODUCE WATER RELEASE					
Generator's Representative: Bryan Haney <i>Bryan Haney (ms)</i>					
TRANSPORTER	Name: Mendez Trucking <i>LOC International (ms)</i>				
	Emergency Contact: Timo Vasquez				
	Emergency Contact Phone: (575) 361-2738				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): <i>Ramon Eduardo</i>					
Signature (Firma): <i>X Modern</i> Date: 10-16-2023 08:57 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <i>[Signature]</i>		Unit No: IIA	Date: 10-16-2023	Time: 08:57 AM	

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LEA LAND, LLC SURFACE WASTE LANDFILL

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NON-HAZARDOUS WASTE MANIFEST		No. 196494	Trailer No. VJ 12	
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380	
	Phone: (281) 298-4246		Disposal Date: 10-16-2023 09:19 AM	
	Name Or Description Of Waste Shipped:			
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt			
	Weight (lbs): 38140 Te			
TRANSPORTER	Lease/Job Name: CTB 3 PRODUCE WATER RELEASE			
	Generator's Representative: Bryan Haney Bryan Haney (CWS)			
	Name: LOC International			
	Emergency Contact: David Hooper			
	Emergency Contact Phone: 325-650-2320			
DISPOSAL FACILITY	Transporter: Acknowledgment of Delivery of Material			
	Printed/Typed Name (Impreso/Mecanografico): <u>Fernando</u>			
	Signature (Firma): <u>X Fernando</u> Date: 10-16-2023 09:19 AM			
	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM	
Permit No: NM-1-0035-New Mexico		Comments:		
Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: 		Unit No: 11A	Date: 10-16-2023	Time: 09:19 AM

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LEA LAND, LLC SURFACE WASTE LANDFILL

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NON-HAZARDOUS WASTE MANIFEST		No. 196496	Trailer No. CROSSPOINT 74	
GENERATOR	Company Name: Earthstone Energy	Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		Disposal Date: 10-16-2023 09:24 AM
	Phone: (281) 298-4246			
	Name Or Description Of Waste Shipped:			
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt			
	Weight (lbs): 36160 Te			
Lease/Job Name: CTB 3 PRODUCE WATER RELEASE				
Generator's Representative: Bryan Haney <u>Bryan Haney (ms)</u>				
TRANSPORTER	Name: LOC International			
	Emergency Contact: David Hooper			
	Emergency Contact Phone: 325-650-2320			
	Transporter: Acknowledgment of Delivery of Material			
Printed/Typed Name (Impreso/Mecanografico): <u>Oswaldo Valdez</u>				
Signature (Firma): <u>X Oswaldo Valdez</u> Date: 10-16-2023 09:24 AM				
DISPOSAL FACILITY	Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		(575) 887-4048
	Permit No: NM-1-0035-New Mexico	Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.			
	Authorized Signature: 	Unit No: IIA	Date: 10-16-2023	Time: 09:24 AM

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NON-HAZARDOUS WASTE MANIFEST		No. 196504	Trailer No. MENDEZ 108		
GENERATOR	Company Name: Earthstone Energy		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		
	Phone: (281) 298-4246		Disposal Date: 10-16-2023 09:50 AM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 37420 Te				
Lease/Job Name: CTB 3 PRODUCE WATER RELEASE					
Generator's Representative: Bryan Haney					
TRANSPORTER	Name: LOC International				
	Emergency Contact: David Hooper				
	Emergency Contact Phone: 325-650-2320				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): <i>X Alfredo Barris</i>					
Signature (Firma): <i>X Alfredo Barris</i> Date: 10-16-2023 09:50 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
			(575) 887-4048		
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <i>[Signature]</i>		Unit No: IIA	Date: 10-16-2023	Time: 09:50 AM	

LEA LAND, LLC
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APPENDIX E
Laboratory Analytical Data Reports



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

October 18, 2023

BRYAN HANEY

ALTAMIRA - US

14229 PUNTA BONAIRE DR.

CORPUS CHRISTI, TX 78418

RE: CTB3 PRODUCED WATER RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/17/23 16:44.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/17/2023	Sampling Date:	10/17/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 4 (6-6.5) (H235682-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/17/2023	Sampling Date:	10/17/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 6 (2-2.5) (H235682-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	10/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/17/2023	Sampling Date:	10/17/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 8 (6-6.5) (H235682-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	10/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 76.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/17/2023	Sampling Date:	10/17/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 11 (8-8.5) (H235682-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	10/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 80.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/17/2023	Sampling Date:	10/17/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 14 (4-4.5) (H235682-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	10/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/17/2023	Sampling Date:	10/17/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 16 (3-3.5) (H235682-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	10/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/17/2023	Sampling Date:	10/17/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 17 (3-3.5) (H235682-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	10/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/17/2023	Sampling Date:	10/17/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 20 (4-4.5) (H235682-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	10/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/17/2023	Sampling Date:	10/17/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 21 (4-4.5) (H235682-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Altamira
 Project Manager: Bryan Haney
 Address: 4229 Punta Bonaire
 City: Corpus Christi State: TX ZIP: 78412
 Phone #: 361-658-3126
 Project: NVONM 2308/001
 Project Name: CITE3 Product Water Release
 Project Location: Loving, New Mexico
 Sampler Name: H.Gonzalez, R.Vinson, O.Gonzalez
 P.O. #: Direct Bill Earthstone
 Company:
 Attn:
 Address:
 City:
 State: Zip:
 Phone #:
 Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	Matrix					PRESERV.	SAMPLING	DATE	TIME	B T E E H S	T P H S	C H L O R I D E S
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE							
4235682	1 (G-4 (8-6.5))	(G)	1	X						10-17-2009	1015	X	X	X	
	2 (G-6 (8-2.5))	(G)	1	X						10-17-2009	1020	X	X	X	
	3 (G-8 (8-6.5))	(G)	1	X						10-17-2009	1025	X	X	X	
	4 (G-11 (8-8.5))	(G)	1	X						10-17-2009	1030	X	X	X	
	5 (G-14 (4-4.5))	(G)	1	X						10-17-2009	1035	X	X	X	
	6 (G-16 (3-3.5))	(G)	1	X						10-17-2009	1040	X	X	X	
	7 (G-19 (8-3.5))	(G)	1	X						10-17-2009	1050	X	X	X	
	8 (G-20 (4-4.5))	(G)	1	X						10-17-2009	1055	X	X	X	
	9 (G-21 (4-4.5))	(G)	1	X						10-17-2009	1055	X	X	X	

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Delivered By: (Circle One)
 Carrier - UPS - Bus - Other:
 Observed Temp. °C: -1.30c
 Corrected Temp. °C: #14D
 Sample Condition:
 Cool / Intact: Yes / No
 Checked By: (Initials) OH
 Remarks: 24 MA
 Verbal Result: Yes No
 All Results are emailed. Please provide Email address:
 Add'l Phone #:
 Thermometer ID: 4419
 Correction Factor: 0.4
 Standard: Bacteria (only) Sample Condition
 Rush: Cool Intact: Observed Temp. °C:
 Yes: No:
 Corrected Temp. °C:
 Yes: No:



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

October 23, 2023

BRYAN HANEY

ALTAMIRA - US

14229 PUNTA BONAIRE DR.

CORPUS CHRISTI, TX 78418

RE: CTB3 PRODUCED WATER RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/20/23 16:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/20/2023	Sampling Date:	10/20/2023
Reported:	10/23/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 8 (10-10.5) (H235773-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/23/2023	ND	400	100	400	3.92	

Sample ID: G - 14 (10-10.5) (H235773-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/23/2023	ND	400	100	400	3.92	

Sample ID: G - 20 (12-12.5) (H235773-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	10/23/2023	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/20/2023	Sampling Date:	10/20/2023
Reported:	10/23/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 25 (12-12.5) (H235773-04)

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/23/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	185	92.5	200	1.90	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	182	90.9	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/20/2023	Sampling Date:	10/20/2023
Reported:	10/23/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 3 (10-10.5) (H235773-05)

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	10/23/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	185	92.5	200	1.90	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	182	90.9	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/20/2023	Sampling Date:	10/20/2023
Reported:	10/23/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 7 (10-10.5) (H235773-06)

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/23/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	185	92.5	200	1.90	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	182	90.9	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/20/2023	Sampling Date:	10/20/2023
Reported:	10/23/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 9 (10-10.5) (H235773-07)

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/23/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	185	92.5	200	1.90	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	182	90.9	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/20/2023	Sampling Date:	10/20/2023
Reported:	10/23/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 24 (12-12.5) (H235773-08)

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/23/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	185	92.5	200	1.90	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	182	90.9	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Altamira

BILL TO

ANALYSIS REQUEST

Project Manager: Bryan Haney

P.O. #: Direct Bill Earthstone

Address: 4229 Punta Bonaire

Company:

City: Corpus Christi State: TX ZIP: 78412

Attn:

Phone #: 361-658-3126

Address:

Project Name: NVONM 2309/001

City:

Project Location: CTB3 Produce Water Release

State:

Project Location: Loving, New Mexico

Phone #:

Sampler Name: H. Gonzalez, R. Vinson, O. Gonzalez

Fax #:

FOR LAB USE ONLY

MATRIX

PRESERV.

SAMPLING

Lab I.D.

Sample I.D.

Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING	DATE	TIME	B T E P H S		C H L O R I D E S	
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE					OTHER : ACID/BASE:	ICE / COOL	OTHER :	Yes
H235773		1	X							10/10/05	1900	X	X	X	X
1		1	X							10/10/05	1204	X	X	X	X
2		1	X							10/10/05	1208	X	X	X	X
3		1	X							10/10/05	1412	X	X	X	X
4		1	X							10/10/05	1415	X	X	X	X
5		1	X							10/10/05	1419	X	X	X	X
6		1	X							10/10/05	1424	X	X	X	X
7		1	X							10/10/05	1431	X	X	X	X
8		1	X							10/10/05		X	X	X	X

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Relinquished By: *[Signature]* Received By: *[Signature]*

Date: 10-20-05 Date: 10-20-05

Time: Time:

Delivered By: (Circle One) Observed Temp. °C Corrected Temp. °C

Thermometer ID: #148

Standard Observed Temp. °C

Rush Cool Intact Bacteria (only) Sample Condition

Thermometer ID: #148

Standard Observed Temp. °C

Rush Cool Intact Bacteria (only) Sample Condition



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

October 24, 2023

BRYAN HANEY

ALTAMIRA - US

14229 PUNTA BONAIRE DR.

CORPUS CHRISTI, TX 78418

RE: CTB3 PRODUCED WATER RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/23/23 9:01.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/23/2023	Sampling Date:	10/21/2023
Reported:	10/24/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 2 (10-10.5') (H235780-01)

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	10/23/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	227	113	200	0.915	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	199	99.6	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/23/2023	Sampling Date:	10/21/2023
Reported:	10/24/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 12 (18-18.5') (H235780-02)

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/23/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	227	113	200	0.915	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	199	99.6	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 84.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/23/2023	Sampling Date:	10/21/2023
Reported:	10/24/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 13 (18-18.5') (H235780-03)

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/23/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	227	113	200	0.915	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	199	99.6	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/23/2023	Sampling Date:	10/21/2023
Reported:	10/24/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 18 (18-18.5') (H235780-04)

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/23/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	227	113	200	0.915	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	199	99.6	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/23/2023	Sampling Date:	10/21/2023
Reported:	10/24/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 19 (18-18.5') (H235780-05)

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/23/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	227	113	200	0.915	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	199	99.6	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/23/2023	Sampling Date:	10/22/2023
Reported:	10/24/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 6 (17-17.5') (H235780-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/23/2023	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/23/2023	Sampling Date:	10/22/2023
Reported:	10/24/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 10 (17-17.5') (H235780-07)

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	10/23/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	227	113	200	0.915	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	199	99.6	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 73.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/23/2023	Sampling Date:	10/22/2023
Reported:	10/24/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 11 (17-17.5') (H235780-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	10/23/2023	ND	400	100	400	3.92	

Sample ID: G - 16 (17-17.5') (H235780-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	10/23/2023	ND	400	100	400	3.92	

Sample ID: G - 17 (17-17.5') (H235780-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/23/2023	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/23/2023	Sampling Date:	10/22/2023
Reported:	10/24/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 22 (17-17.5') (H235780-11)

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/23/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	227	113	200	0.915	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	199	99.6	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 70.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/23/2023	Sampling Date:	10/22/2023
Reported:	10/24/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 23 (17-17.5') (H235780-12)

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/23/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	227	113	200	0.915	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	199	99.6	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 72.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Alamira
 Project Manager: Bryan Haney
 Address: 4229 Punta Bonalire
 City: Corpus Christi State: TX ZIP: 78412
 Phone #: 361-658-3126
 Project: NVONM 2308/001
 Project Name: CTB3 Produce Water Release
 Project Location: Loving, New Mexico
 Sampler Name: H.Gonzalez, R.Vinson, O.Gonzalez
 P.O. #: Direct Bill Earthstone
 Company:
 Attn:
 Address:
 City:
 State:
 Zip:
 Phone #:
 Fax #:

Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		B T E E H	T P H	S I D E S
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	ACID/BASE:	ICE / COOL	OTHER :	DATE			
4235780														
1	⊙	1				X						X	X	X
2	⊙	1				X						X	X	X
3	⊙	1				X						X	X	X
4	⊙	1				X						X	X	X
5	⊙	1				X						X	X	X
6	⊙	1				X						X	X	X
7	⊙	1				X						X	X	X
8	⊙	1				X						X	X	X
9	⊙	1				X						X	X	X
10	⊙	1				X						X	X	X

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Inquired By: [Signature]
 Date: 5/23/2013
 Received By: [Signature]
 Date: 5/23/2013
 Observed Temp. °C: -0.5
 Corrected Temp. °C: [Blank]
 Sample Condition: Cool Intact
 Checked By: [Signature]
 Remarks: 24h - FAT
 Verbal Result: Yes No
 Add'l Phone #: [Blank]
 Thermometer ID: #140
 Correction Factor: [Blank]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Altamira
 Project Manager: Bryan Haney
 Address: 4229 Punta Bonaire
 City: Corpus Christi State: TX ZIP: 78412
 Phone #: 361-658-3126
 Project: NVONM 2308/001
 Project Name: CTB3 Produce Water Release
 Project Location: Loving, New Mexico
 Sampler Name: H. Gonzalez, R. Vinson, O Gonzalez
 Lab I.D.:

P.O. #: Direct Bill Earthstone
 Company:
 Attn:
 Address:
 City:
 State: Zip:
 Phone #:
 Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	Matrix						PRESERV.	SAMPLING	DATE	TIME	B T E X	T P H	C H L O R I D E S
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER							
H235780	6-22 (17-19-5)	(C)	1	X							6-22-2018	1120	X	X	X	
	6-23 (17-19-5)	(C)	1	X							10-22-2018	1124	X	X	X	
		(C)	1	X									X	X	X	
		(C)	1	X									X	X	X	
		(C)	1	X									X	X	X	
		(C)	1	X									X	X	X	
		(C)	1	X									X	X	X	
		(C)	1	X									X	X	X	
		(C)	1	X									X	X	X	
		(C)	1	X									X	X	X	
		(C)	1	X									X	X	X	
		(C)	1	X									X	X	X	
		(C)	1	X									X	X	X	
		(C)	1	X									X	X	X	

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Inquired By: [Signature]
 Date: 6/23/2018
 Received By: [Signature]
 Date: 6/23/2018

Verbal Result: Yes No
 All Results are emailed. Please provide Email address:
 Add'l Phone #:
 Remarks: 24 hr MAT

Observed Temp. °C: -0.5
 Corrected Temp. °C: [Blank]
 Sample Condition: Cool Intact
 Checked By: [Signature]
 Thermometer ID: 4449 #40
 Correction Factor: [Blank]



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

October 25, 2023

BRYAN HANEY

ALTAMIRA - US

14229 PUNTA BONAIRE DR.

CORPUS CHRISTI, TX 78418

RE: CTB3 PRODUCED WATER RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/24/23 16:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 1 (0-10') (H235846-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	10/25/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 2 (0-6") (H235846-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88		
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2		
Total BTEX	<0.300	0.300	10/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/24/2023	ND	163	81.6	200	3.60		
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500		
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND						

Surrogate: 1-Chlorooctane 78.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 3 (0-10') (H235846-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88		
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2		
Total BTEX	<0.300	0.300	10/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	10/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/24/2023	ND	163	81.6	200	3.60		
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500		
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND						

Surrogate: 1-Chlorooctane 69.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 4 (0-10') (H235846-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88		
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2		
Total BTEX	<0.300	0.300	10/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/24/2023	ND	163	81.6	200	3.60		
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500		
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND						

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 5 (0-10') (H235846-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	10/25/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 6 (0-4') (H235846-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88		
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2		
Total BTEX	<0.300	0.300	10/25/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	10/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/24/2023	ND	163	81.6	200	3.60		
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500		
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND						

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 7 (0-12') (H235846-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88		
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2		
Total BTEX	<0.300	0.300	10/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	10/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/24/2023	ND	163	81.6	200	3.60		
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500		
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND						

Surrogate: 1-Chlorooctane 69.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 8 (0-17') (H235846-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88		
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2		
Total BTEX	<0.300	0.300	10/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	10/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/24/2023	ND	163	81.6	200	3.60		
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500		
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND						

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 9 (0-17') (H235846-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	10/25/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 10 (0-17') (H235846-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	10/25/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 11 (0-18') (H235846-11)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88		
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2		
Total BTEX	<0.300	0.300	10/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5760	16.0	10/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/25/2023	ND	163	81.6	200	3.60		
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500		
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND						

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 12 (0-17') (H235846-12)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	10/25/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					

Surrogate: 1-Chlorooctane 84.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 13 (0-17') (H235846-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	10/25/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					

Surrogate: 1-Chlorooctane 69.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 14 (0-18') (H235846-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/25/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 15 (6-18') (H235846-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/25/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 28 (6''-1') (H235846-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/25/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 29 (6''-1') (H235846-17)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	1.95	97.6	2.00	2.52		
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	3.00		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	2.41		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.04	101	6.00	2.54		
Total BTEX	<0.300	0.300	10/25/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	10/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/25/2023	ND	163	81.6	200	3.60		
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500		
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND						

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 30 (6''-1') (H235846-18)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	1.95	97.6	2.00	2.52		
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	3.00		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	2.41		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.04	101	6.00	2.54		
Total BTEX	<0.300	0.300	10/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/25/2023	ND	163	81.6	200	3.60		
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500		
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND						

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 31 (6''-1') (H235846-19)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.95	97.6	2.00	2.52	
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	3.00	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	2.41	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.04	101	6.00	2.54	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	10/25/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 2 (17-17.5') (H235846-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/25/2023	ND	416	104	400	0.00	

Sample ID: G - 16 (18-18.5') (H235846-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	10/25/2023	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04 The RPD for the BS/BSD was outside of historical limits.
BS1 Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Altamira

Project Manager: Bryan Haney
Address: 4229 Punta Bonaire
City: Corpus Christi State: TX ZIP: 78412

Phone #: 361-658-3126

Project Name: NVONM 2308/001
CTB3 Produce Water Release

Project Location: Loving, New Mexico

Sampler Name: H. Gonzalez, R. Vinson, O. Gonzalez

Lab I.D. HBS16-05

Sample I.D.

BILL TO

P.O. #: Direct Bill Earthstone
Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

ANALYSIS REQUEST

Well	Depth	(G)RAB OR (C)COMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	B T E E X	T P H	S I D E S
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
1	SW-1 (D-10)	(C)	1	X							10-24-03	11:50	X	X	X	
2	SW-2 (D-10)	(C)	1	X							10-24-03	11:52	X	X	X	
3	SW-3 (D-10)	(C)	1	X							10-24-03	11:54	X	X	X	
4	SW-4 (D-10)	(C)	1	X							10-24-03	11:56	X	X	X	
5	SW-5 (D-10)	(C)	1	X							10-24-03	11:58	X	X	X	
6	SW-6 (D-10)	(C)	1	X							10-24-03	12:00	X	X	X	
7	SW-7 (D-12)	(C)	1	X							10-24-03	12:02	X	X	X	
8	SW-8 (D-10)	(C)	1	X							10-24-03	12:04	X	X	X	
9	SW-9 (D-10)	(C)	1	X							10-24-03	12:06	X	X	X	
10	SW-10 (D-10)	(C)	1	X							10-24-03	12:08	X	X	X	

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Quished By: [Signature] Date: 10/24/03 Received By: [Signature] Date: 10/24/03
Time: 16:45

Observed Temp. °C: -1.30
Corrected Temp. °C: [Blank]
Sample Condition: Cool In tact
Checked By: [Signature] (Initials)

Thermostat Time: Standard Rush
Thermometer ID: #449
Correction Factor: [Blank]

FORM-008 R 3.2 10/07/21
Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Altamira
 Project Manager: Bryan Haney
 Address: 4229 Punta Bonaire
 City: Corpus Christi State: TX ZIP: 78412
 Phone #: 361-658-3126
 Project: NVONM 2308/001
 Project Name: CTB3 Produce Water Release
 Project Location: Loving, New Mexico
 Sampler Name: H. Gonzalez, R. Vinson, O. Gonzalez
 Lab I.D. [Blank]

P.O. #: Direct Bill Earthstone
 Company:
 Attn:
 Address:
 City:
 State: Zip:
 Phone #:
 Fax #:

Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	Matrix							PRESERV.	SAMPLING	DATE	TIME	B T E H	T P H	C H L O R I D E S
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER : ACID/BASE:	ICE / COOL							
H235846		1			X						0-24-2009	1439	X	X	X	
11		1			X						0-24-2009	1442	X	X	X	
12		1			X						0-24-2009	1445	X	X	X	
13		1			X						0-24-2009	1448	X	X	X	
14		1			X						0-24-2009	1451	X	X	X	
15		1			X						0-24-2009	1457	X	X	X	

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Inquished By: [Signature] Date: 10/24/09 Time: 16:45
 Received By: [Signature] Date: 10/24/09 Time: 16:45

Observed Temp. °C: -1.30c
 Corrected Temp. °C: [Blank]

Sample Condition: Cool Intact Yes No

Checked By: [Signature] (Initials)

Thermometer ID: #446
 Correction Factor: [Blank]

Remarks: 24hr TAT

Verbal Results: Yes No
 Add'l Phone #: [Blank]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Altamira
 Project Manager: Bryan Haney
 Address: 4229 Punta Bonaire
 City: Corpus Christi State: TX ZIP: 78412
 Phone #: 361-658-3126
 Project: NVONM 2308/001
 Project Name: CTB3 Produce Water Release
 Project Location: Loving, New Mexico
 Sampler Name: H. Gonzalez, R. Vinson, O. Gonzalez
 Lab I.D. [Blank]

P.O. #: Direct Bill Earthstone
 Company:
 Attn:
 Address:
 City:
 State: Zip:
 Phone #:
 Fax #:

Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	Matrix						PRESERV.	SAMPLING	DATE	TIME	B T E P H S	C H L O R I D E S
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER : ACID/BASE:						
H235846	(G)	1	X							6/24/2013	1035	X	X	
16	(G)	1	X							6/24/2013	1037	X	X	
17	(G)	1	X							6/24/2013	1040	X	X	
18	(G)	1	X							6/24/2013	1044	X	X	
19	(G)	1	X							6/24/2013	1044	X	X	
20	(G)	1	X							6/24/2013	1112	X	X	
21	(G)	1	X							6/24/2013	1215	X	X	

NOTE: Liability and Damages. Cardinal's liability and client's exclusivity remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the analysis. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is stated upon any of the above stated reasons or otherwise.

Inquired By: [Signature]
 Date: 6/24/13
 Received By: [Signature]
 Date: 6/24/13

Observed Temp. °C: -1.3°C
 Corrected Temp. °C: [Blank]

Sample Condition:
 Cool Intact: Yes No
 Other: Yes No

Checked By: [Signature] (Initials)

Turnaround Time: Standard Rush
 Thermometer ID: 4444
 Correction Factor: [Blank]

Remarks: 2444AAT

Verbal Result: Yes No
 All Results are emailed. Please provide Email address:
 Add'l Phone #:

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

October 27, 2023

BRYAN HANEY

ALTAMIRA - US

14229 PUNTA BONAIRE DR.

CORPUS CHRISTI, TX 78418

RE: CTB3 PRODUCED WATER RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/26/23 16:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder".

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/26/2023	Sampling Date:	10/26/2023
Reported:	10/27/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 16 (0-12) (H235887-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/27/2023	ND	2.05	103	2.00	4.06	
Toluene*	<0.050	0.050	10/27/2023	ND	2.10	105	2.00	4.94	
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.09	104	2.00	3.37	
Total Xylenes*	<0.150	0.150	10/27/2023	ND	6.24	104	6.00	2.70	
Total BTEX	<0.300	0.300	10/27/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/27/2023	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2023	ND	182	90.8	200	8.03	
DRO >C10-C28*	<10.0	10.0	10/27/2023	ND	199	99.5	200	0.376	
EXT DRO >C28-C36	<10.0	10.0	10/27/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/26/2023	Sampling Date:	10/26/2023
Reported:	10/27/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 16 (18-18.5) (H235887-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	10/27/2023	ND	416	104	400	0.00	

Sample ID: SW - 10A (0-17) (H235887-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/27/2023	ND	416	104	400	0.00	

Sample ID: SW - 11A (0-18) (H235887-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/27/2023	ND	416	104	400	0.00	

Sample ID: SW - 12A (0-17) (H235887-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/27/2023	ND	416	104	400	0.00	

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/26/2023	Sampling Date:	10/26/2023
Reported:	10/27/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 17 (0-17) (H235887-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/27/2023	ND	2.05	103	2.00	4.06		
Toluene*	<0.050	0.050	10/27/2023	ND	2.10	105	2.00	4.94		
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.09	104	2.00	3.37		
Total Xylenes*	<0.150	0.150	10/27/2023	ND	6.24	104	6.00	2.70		
Total BTEX	<0.300	0.300	10/27/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	10/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/27/2023	ND	182	90.8	200	8.03		
DRO >C10-C28*	<10.0	10.0	10/27/2023	ND	199	99.5	200	0.376		
EXT DRO >C28-C36	<10.0	10.0	10/27/2023	ND						

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/26/2023	Sampling Date:	10/26/2023
Reported:	10/27/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 13A (0-17) (H235887-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/27/2023	ND	416	104	400	0.00	

Sample ID: SW - 6A (0-4') (H235887-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/27/2023	ND	416	104	400	0.00	

Sample ID: SW - 5A (0-10') (H235887-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	10/27/2023	ND	416	104	400	0.00	

Sample ID: SW - 1A (0-10') (H235887-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	10/27/2023	ND	416	104	400	0.00	

Sample ID: G - 31 (1-1.5) (H235887-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/27/2023	ND	416	104	400	0.00	

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCS/D recovery and/or RPD values.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Handwritten signature of Mike Snyder

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Altamira
 Project Manager: Bryan Harey
 Address: 4229 Punta Bonaire
 City: Corpus Christi
 State: TX ZIP: 78412
 Phone #: 361-658-3126
 Project: NVONM 2308/001
 Project Name: CTB3 Produce Water Release
 Project Location: Loving, New Mexico
 Sampler Name: H. Gonzalez, R. Vinson, O. Gonzalez
 Lab I.D.:

P.O. #: Direct Bill Earthstone
 Company:
 Attn:
 Address:
 City:
 State:
 Zip:
 Phone #:
 Fax #:

Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	Matrix					PRESERV.		DATE	TIME	B T E H S		
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	ACID/BASE	ICE / COOL			OTHER	X	X
H035887		1								10-26-2003	0745	X	X	X
1 SW-16 (10-12)		1								10-16-2003	1321	X	X	X
2 SW-16 (18-18.5)		1								10-16-2003	1324	X	X	X
3 SW-10A (6-17)		1								10-16-2003	1321	X	X	X
4 SW-11A (0-18)		1								10-16-2003	1331	X	X	X
5 SW-12A (0-19)		1								10-16-2003	1334	X	X	X
6 SW-17 (0-19)		1								10-16-2003	1337	X	X	X
7 SW-15A (0-17)		1								10-16-2003	1404	X	X	X
8 SW-6A (0-4)		1								10-16-2003	1438	X	X	X
9 SW-5A (6-10)		1								10-16-2003	1446	X	X	X
10 SW-1A (0-10)		1								10-16-2003	1446	X	X	X

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Relinquished By: [Signature]
 Date: 10/26/03
 Time: 14:51
 Received By: [Signature]
 Date: 10/26/03
 Time: 14:51
 Observed Temp. °C: 23
 Corrected Temp. °C: [Blank]
 Sample Condition: Cool Intact Yes No
 Checked By: [Signature]
 Turnaround Time: Standard Rush
 Thermometer ID: #115 #140
 Correction Factor: [Blank]
 Verbal Results: Yes No
 All Results are emailed. Please provide Email address:
 Add'l Phone #: [Blank]



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

October 23, 2023

BRYAN HANEY

ALTAMIRA - US

14229 PUNTA BONAIRE DR.

CORPUS CHRISTI, TX 78418

RE: CTB3 PRODUCED WATER RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/20/23 8:01.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/20/2023	Sampling Date:	10/18/2023
Reported:	10/23/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NEW MEXICO		

Sample ID: BF - 1 (H235748-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2023	ND	2.18	109	2.00	1.20	
Toluene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	1.03	
Ethylbenzene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	0.273	
Total Xylenes*	<0.150	0.150	10/21/2023	ND	6.64	111	6.00	0.0904	
Total BTEX	<0.300	0.300	10/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/20/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	194	96.9	200	5.94	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	176	87.8	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane 75.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/20/2023	Sampling Date:	10/18/2023
Reported:	10/23/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NEW MEXICO		

Sample ID: BF - 2 (H235748-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2023	ND	2.18	109	2.00	1.20	
Toluene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	1.03	
Ethylbenzene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	0.273	
Total Xylenes*	<0.150	0.150	10/21/2023	ND	6.64	111	6.00	0.0904	
Total BTEX	<0.300	0.300	10/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/20/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	194	96.9	200	5.94	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	176	87.8	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane 74.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/20/2023	Sampling Date:	10/18/2023
Reported:	10/23/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NEW MEXICO		

Sample ID: BF - 3 (H235748-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2023	ND	2.18	109	2.00	1.20	
Toluene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	1.03	
Ethylbenzene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	0.273	
Total Xylenes*	<0.150	0.150	10/21/2023	ND	6.64	111	6.00	0.0904	
Total BTEX	<0.300	0.300	10/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/20/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	194	96.9	200	5.94	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	176	87.8	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/20/2023	Sampling Date:	10/18/2023
Reported:	10/23/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NEW MEXICO		

Sample ID: BF - 4 (H235748-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2023	ND	2.18	109	2.00	1.20	
Toluene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	1.03	
Ethylbenzene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	0.273	
Total Xylenes*	<0.150	0.150	10/21/2023	ND	6.64	111	6.00	0.0904	
Total BTEX	<0.300	0.300	10/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/20/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	194	96.9	200	5.94	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	176	87.8	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Altamira
 Project Manager: Bryan Haney
 Address: 4229 Punta Bonaire
 City: Corpus Christi State: TX ZIP: 78412
 Phone #: 361-658-3126
 Project: NVONM 2308/001
 Project Name: CTB3 Produce Water Release
 Project Location: Loving, New Mexico
 Sampler Name: H. Gonzalez, R. Vinson, O. Gonzalez
 Lab I.D.:

P.O. #: Direct Bill Earthstone
 Company:
 Attn:
 Address:
 City:
 State: Zip:
 Phone #:
 Fax #:

Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	Matrix					PRESERV.		SAMPLING		B T E H	T P H	S E S
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER ACID/BASE	ICE / COOL	OTHER	DATE			
HB35748	(C)	1			X					10-18-2023	0510	X	X	X
1 BFC-1	(C)	1			X					10-18-2023	0512	X	X	X
2 BFC-2	(C)	1			X					10-18-2023	0515	X	X	X
3 BFC-3	(C)	1			X					10-18-2023	0516	X	X	X
4 BFC-4	(C)	1			X					10-18-2023	0516	X	X	X
	(C)	1			X							X	X	X
	(C)	1			X							X	X	X
	(C)	1			X							X	X	X
	(C)	1			X							X	X	X

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Relinquished By: [Signature]
 Date: 10/19/23
 Time: 8:00
 Received By: [Signature]
 Date: [Blank]
 Time: [Blank]

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other:
 Observed Temp. °C: -2.3°C
 Corrected Temp. °C:
 Sample Condition:
 Cool Inlet Inlet
 Checked By: [Signature]
 Turnaround Time: Rush Standard
 Thermometer ID: #113
 Correction Factor: #140
 Bacteria (only) Sample Condition:
 Yes No
 Corrected Temp. °C: Yes No

Appendix B
Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797



View northwest at release area located northwest of point of release

Appendix B
Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797



October 10, 2023 – view northwest at point of release and release area northwest of release

Appendix B
Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797



View of pipe point of release and release area to the northwest



View north at release area

Appendix B
Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797



View of active soil remediation south of point of release immediately adjacent to pipeline



View north at active soil excavation activities

Appendix B
Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797



View north at remedaiton area and outline of area south of pipeline rise showing minimal surface impact



View south at remedation area

Appendix B
Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797



View showing backfill of excavation area

Appendix B
Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797



View showing complete backfilled area

**Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797**



View of pipe point of release and release area to the northwest



View north at release area

**Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797**



View of active soil remediation south of point of release immediately adjacent to pipeline



View north at active soil excavation activities

**Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797**



View north at remedaiton area and outline of area south of pipeline rise showing minimal surface impact



View south at remedation area

**Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797**



View showing backfill of excavation area



Reclamation - View showing complete backfilled, contoured, & seeded area

**Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797**



Reclamation - View showing complete backfilled, contoured & seeded area



Reclamation - View showing complete backfilled, contoured & seeded

**Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797**



Reclamation - View showing complete backfilled, contoured & seeded area



Reclamation - View showing complete backfilled, contoured & seeded area



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

October 18, 2023

BRYAN HANEY

ALTAMIRA - US

14229 PUNTA BONAIRE DR.

CORPUS CHRISTI, TX 78418

RE: CTB3 PRODUCED WATER RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/17/23 16:44.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/17/2023	Sampling Date:	10/17/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 4 (6-6.5) (H235682-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/17/2023	Sampling Date:	10/17/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 6 (2-2.5) (H235682-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	10/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/17/2023	Sampling Date:	10/17/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 8 (6-6.5) (H235682-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	10/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 76.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/17/2023	Sampling Date:	10/17/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 11 (8-8.5) (H235682-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	10/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 80.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/17/2023	Sampling Date:	10/17/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 14 (4-4.5) (H235682-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	10/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/17/2023	Sampling Date:	10/17/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 16 (3-3.5) (H235682-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	10/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/17/2023	Sampling Date:	10/17/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 17 (3-3.5) (H235682-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	10/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/17/2023	Sampling Date:	10/17/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 20 (4-4.5) (H235682-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	10/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/17/2023	Sampling Date:	10/17/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 21 (4-4.5) (H235682-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Altamira
 Project Manager: Bryan Haney
 Address: 4229 Punta Bonaire
 City: Corpus Christi State: TX ZIP: 78412
 Phone #: 361-658-3126
 Project: NVONM 2308/001
 Project Name: CITE3 Product Water Release
 Project Location: Loving, New Mexico
 Sampler Name: H. Gonzalez, R. Vinson, O. Gonzalez
 P.O. #: Direct Bill Earthstone
 Company:
 Attn:
 Address:
 City:
 State: Zip:
 Phone #:
 Fax #:

Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	Matrix					PRESERV.	SAMPLING	DATE	TIME	B T E H S	T P H S	C H L O R I D E S
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE							
1 (G-4 (8-6.5))	Ⓞ	1	X						10-17-2009	1015	X	X	X	
2 (G-6 (8-2.5))	Ⓞ	1	X						10-17-2009	1020	X	X	X	
3 (G-8 (8-6.5))	Ⓞ	1	X						10-17-2009	1025	X	X	X	
4 (G-11 (8-8.5))	Ⓞ	1	X						10-17-2009	1030	X	X	X	
5 (G-14 (4-4.5))	Ⓞ	1	X						10-17-2009	1035	X	X	X	
6 (G-16 (3-3.5))	Ⓞ	1	X						10-17-2009	1040	X	X	X	
7 (G-19 (8-3.5))	Ⓞ	1	X						10-17-2009	1050	X	X	X	
8 (G-20 (4-4.5))	Ⓞ	1	X						10-17-2009	1055	X	X	X	
9 (G-21 (4-4.5))	Ⓞ	1	X						10-17-2009	1055	X	X	X	

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Abandoned By: [Signature] Date: 10/22/09 Received By: [Signature]
 Date: 10/24 Time: 11:40

Delivered By: (Circle One)
 Cooler - UPS - Bus - Other: Other
 Observed Temp. °C: -1.30C
 Corrected Temp. °C: #114D

Sample Condition: Cool Intact
 Checked By: [Signature]
 Remarks: 24 MA
 Turnaround Time: Standard Rush
 Thermometer ID: 4419
 Correction Factor: 0.4



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

October 23, 2023

BRYAN HANEY

ALTAMIRA - US

14229 PUNTA BONAIRE DR.

CORPUS CHRISTI, TX 78418

RE: CTB3 PRODUCED WATER RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/20/23 16:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/20/2023	Sampling Date:	10/20/2023
Reported:	10/23/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 8 (10-10.5) (H235773-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/23/2023	ND	400	100	400	3.92	

Sample ID: G - 14 (10-10.5) (H235773-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/23/2023	ND	400	100	400	3.92	

Sample ID: G - 20 (12-12.5) (H235773-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	10/23/2023	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/20/2023	Sampling Date:	10/20/2023
Reported:	10/23/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 25 (12-12.5) (H235773-04)

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/23/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	185	92.5	200	1.90	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	182	90.9	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/20/2023	Sampling Date:	10/20/2023
Reported:	10/23/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 3 (10-10.5) (H235773-05)

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	10/23/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	185	92.5	200	1.90	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	182	90.9	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/20/2023	Sampling Date:	10/20/2023
Reported:	10/23/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 7 (10-10.5) (H235773-06)

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/23/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	185	92.5	200	1.90	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	182	90.9	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/20/2023	Sampling Date:	10/20/2023
Reported:	10/23/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 9 (10-10.5) (H235773-07)

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/23/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	185	92.5	200	1.90	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	182	90.9	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/20/2023	Sampling Date:	10/20/2023
Reported:	10/23/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 24 (12-12.5) (H235773-08)

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/23/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	185	92.5	200	1.90	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	182	90.9	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 49.1-148

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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

October 24, 2023

BRYAN HANEY

ALTAMIRA - US

14229 PUNTA BONAIRE DR.

CORPUS CHRISTI, TX 78418

RE: CTB3 PRODUCED WATER RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/23/23 9:01.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/23/2023	Sampling Date:	10/21/2023
Reported:	10/24/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 2 (10-10.5') (H235780-01)

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	10/23/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	227	113	200	0.915	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	199	99.6	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/23/2023	Sampling Date:	10/21/2023
Reported:	10/24/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 12 (18-18.5') (H235780-02)

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/23/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	227	113	200	0.915	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	199	99.6	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 84.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/23/2023	Sampling Date:	10/21/2023
Reported:	10/24/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 13 (18-18.5') (H235780-03)

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/23/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	227	113	200	0.915	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	199	99.6	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/23/2023	Sampling Date:	10/21/2023
Reported:	10/24/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 18 (18-18.5') (H235780-04)

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/23/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	227	113	200	0.915	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	199	99.6	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/23/2023	Sampling Date:	10/21/2023
Reported:	10/24/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 19 (18-18.5') (H235780-05)

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/23/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	227	113	200	0.915	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	199	99.6	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/23/2023	Sampling Date:	10/22/2023
Reported:	10/24/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 6 (17-17.5') (H235780-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/23/2023	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/23/2023	Sampling Date:	10/22/2023
Reported:	10/24/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 10 (17-17.5') (H235780-07)

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	10/23/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	227	113	200	0.915	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	199	99.6	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 73.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/23/2023	Sampling Date:	10/22/2023
Reported:	10/24/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 11 (17-17.5') (H235780-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	10/23/2023	ND	400	100	400	3.92	

Sample ID: G - 16 (17-17.5') (H235780-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	10/23/2023	ND	400	100	400	3.92	

Sample ID: G - 17 (17-17.5') (H235780-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/23/2023	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/23/2023	Sampling Date:	10/22/2023
Reported:	10/24/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 22 (17-17.5') (H235780-11)

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/23/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	227	113	200	0.915	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	199	99.6	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 70.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/23/2023	Sampling Date:	10/22/2023
Reported:	10/24/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 23 (17-17.5') (H235780-12)

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/23/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	227	113	200	0.915	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	199	99.6	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 72.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Altamira
 Project Manager: Bryan Haney
 Address: 4229 Punta Bonaire
 City: Corpus Christi State: TX ZIP: 78412
 Phone #: 361-658-3126
 Project: NVONM 2308/001
 Project Name: CTB3 Produce Water Release
 Project Location: Loving, New Mexico
 Sampler Name: H. Gonzalez, R. Vinson, O Gonzalez
 Lab I.D.:

P.O. #: Direct Bill Earthstone
 Company:
 Attn:
 Address:
 City:
 State: Zip:
 Phone #:
 Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	Matrix						PRESERV.	SAMPLING	DATE	TIME	B T E X	T P H	C H L O R I D E S
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER							
H235780	11	6-22 (17-19.5)	1	X							6-22-2018	1120	X	X	X	
	12	6-23 (17-19.5)	1	X							10-22-2018	1124	X	X	X	
			1	X									X	X	X	
			1	X									X	X	X	
			1	X									X	X	X	
			1	X									X	X	X	
			1	X									X	X	X	
			1	X									X	X	X	
			1	X									X	X	X	
			1	X									X	X	X	
			1	X									X	X	X	
			1	X									X	X	X	
			1	X									X	X	X	

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Inquired By: [Signature]
 Date: 6/23/2018
 Received By: [Signature]
 Date: 6/23/2018

Observed Temp. °C: -0.5
 Corrected Temp. °C: [Blank]
 Sample Condition: Cool Intact
 Checked By: [Signature]

Thermometer ID: 4449 #40
 Correction Factor: [Blank]
 Verbal Result: Yes No
 Add'l Phone #: [Blank]



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

October 25, 2023

BRYAN HANEY

ALTAMIRA - US

14229 PUNTA BONAIRE DR.

CORPUS CHRISTI, TX 78418

RE: CTB3 PRODUCED WATER RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/24/23 16:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 1 (0-10') (H235846-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	10/25/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 2 (0-6") (H235846-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88		
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2		
Total BTEX	<0.300	0.300	10/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/24/2023	ND	163	81.6	200	3.60		
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500		
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND						

Surrogate: 1-Chlorooctane 78.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 3 (0-10') (H235846-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88		
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2		
Total BTEX	<0.300	0.300	10/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	10/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/24/2023	ND	163	81.6	200	3.60		
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500		
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND						

Surrogate: 1-Chlorooctane 69.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 4 (0-10') (H235846-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/25/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 5 (0-10') (H235846-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88		
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2		
Total BTEX	<0.300	0.300	10/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1120	16.0	10/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/24/2023	ND	163	81.6	200	3.60		
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500		
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND						

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 6 (0-4') (H235846-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88		
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2		
Total BTEX	<0.300	0.300	10/25/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	10/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/24/2023	ND	163	81.6	200	3.60		
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500		
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND						

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 7 (0-12') (H235846-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/25/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 69.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 8 (0-17') (H235846-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88		
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2		
Total BTEX	<0.300	0.300	10/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	10/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/24/2023	ND	163	81.6	200	3.60		
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500		
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND						

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 9 (0-17') (H235846-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	10/25/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 10 (0-17') (H235846-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	10/25/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 11 (0-18') (H235846-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5760	16.0	10/25/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 12 (0-17') (H235846-12)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	10/25/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					

Surrogate: 1-Chlorooctane 84.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 13 (0-17') (H235846-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	10/25/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					

Surrogate: 1-Chlorooctane 69.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 14 (0-18') (H235846-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/25/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 15 (6-18') (H235846-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/25/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 28 (6''-1') (H235846-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/25/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 29 (6''-1') (H235846-17)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	1.95	97.6	2.00	2.52		
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	3.00		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	2.41		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.04	101	6.00	2.54		
Total BTEX	<0.300	0.300	10/25/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	10/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/25/2023	ND	163	81.6	200	3.60		
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500		
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND						

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 30 (6''-1') (H235846-18)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	1.95	97.6	2.00	2.52		
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	3.00		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	2.41		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.04	101	6.00	2.54		
Total BTEX	<0.300	0.300	10/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/25/2023	ND	163	81.6	200	3.60		
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500		
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND						

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 31 (6''-1') (H235846-19)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.95	97.6	2.00	2.52	
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	3.00	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	2.41	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.04	101	6.00	2.54	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	10/25/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Dionica Hinojos
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 2 (17-17.5') (H235846-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/25/2023	ND	416	104	400	0.00	

Sample ID: G - 16 (18-18.5') (H235846-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	10/25/2023	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04 The RPD for the BS/BSD was outside of historical limits.
BS1 Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Altamira

Project Manager: Bryan Haney
Address: 4229 Punta Bonaire
City: Corpus Christi State: TX ZIP: 78412

Phone #: 361-658-3126

Project Name: NVONM 2308/001
CTB3 Produce Water Release

Project Location: Loving, New Mexico

Sampler Name: H. Gonzalez, R. Vinson, O. Gonzalez

Lab I.D. HBS16-05

Sample I.D.

BILL TO

P.O. #: Direct Bill Earthstone

Company:

Address:

City:

State:

Phone #:

Fax #:

ANALYSIS REQUEST

Well	Sample I.D.	(G)RAB OR (C)COMP.	# CONTAINERS	MATRIX						DATE	TIME	B T E E H	T P H	S I D E S
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
1	SU-1 (D-10)	(C)	1	X						10-24-2003	11:50	X	X	X
2	SU-2 (D-10)	(C)	1	X						10-24-2003	11:52	X	X	X
3	SU-3 (D-10)	(C)	1	X						10-24-2003	11:54	X	X	X
4	SU-4 (D-10)	(C)	1	X						10-24-2003	11:56	X	X	X
5	SU-5 (D-10)	(C)	1	X						10-24-2003	11:58	X	X	X
6	SU-6 (D-10)	(C)	1	X						10-24-2003	12:00	X	X	X
7	SU-7 (D-12)	(C)	1	X						10-24-2003	12:02	X	X	X
8	SU-8 (D-10)	(C)	1	X						10-24-2003	12:04	X	X	X
9	SU-9 (D-10)	(C)	1	X						10-24-2003	12:06	X	X	X
10	SU-10 (D-10)	(C)	1	X						10-24-2003	12:08	X	X	X

NOTE: Liability and Coverage: Cardinal's liability and coverage is limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the analysis. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client or subsidiaries.

Quished By: [Signature] Date: 10/24/03 Received By: [Signature] Date: 10/24/03
Time: 16:45

Observed Temp. °C: -1.30
Corrected Temp. °C: [Blank]
Sample Condition: Cool Yes No
Infect Yes No

Checked By: [Signature] (Initials)

Thermostat Time: Standard Rush
Thermometer ID: #449
Correction Factor: Yes No

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Altamira
 Project Manager: Bryan Haney
 Address: 4229 Punta Bonaire
 City: Corpus Christi State: TX ZIP: 78412
 Phone #: 361-658-3126
 Project: NVONM 2308/001
 Project Name: CTB3 Produce Water Release
 Project Location: Loving, New Mexico
 Sampler Name: H. Gonzalez, R. Vinson, O. Gonzalez
 Lab I.D. [Blank]

P.O. #: Direct Bill Earthstone
 Company:
 Attn:
 Address:
 City:
 State: Zip:
 Phone #:
 Fax #:

Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	Matrix							PRESERV.	SAMPLING	DATE	TIME	B T E H	T P H	C H L O R I D E S
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER : ACID/BASE:	ICE / COOL							
H235846		1			X						0-24-2009	1439	X	X	X	
11		1			X						0-24-2009	1442	X	X	X	
12		1			X						0-24-2009	1445	X	X	X	
13		1			X						0-24-2009	1448	X	X	X	
14		1			X						0-24-2009	1451	X	X	X	
15		1			X						0-24-2009	1457	X	X	X	

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Inquired By: [Signature]
 Date: 10/24/09
 Time: 16:45

Received By: [Signature]
 Date: 10/24/09
 Time: 16:45

Verbal Results: Yes No
 All Results are emailed. Please provide Email address:
 Add'l Phone #:

Observed Temp. °C: -1.30c
 Corrected Temp. °C: [Blank]

Sample Condition:
 Cool Intact: Yes No
 Cool Intact: Yes No

Checked By: [Signature] (Initials)

Thermometer ID: #446
 Correction Factor: [Blank]

Standard: Bacteria (only) Sample Condition: [Blank]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Altamira
 Project Manager: Bryan Haney
 Address: 4229 Punta Bonaire
 City: Corpus Christi State: TX ZIP: 78412
 Phone #: 361-658-3126
 Project: NVONM 2308/001
 Project Name: CTB3 Produce Water Release
 Project Location: Loving, New Mexico
 Sampler Name: H. Gonzalez, R. Vinson, O. Gonzalez
 Lab I.D. [Blank]

P.O. #: Direct Bill Earthstone
 Company:
 Attn:
 Address:
 City:
 State: Zip:
 Phone #:
 Fax #:

Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	B T E P H S	C H L O R I D E S
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER : ACID/BASE:						
H235846	(G)	1	X							6/24/2013	1035	X	X	X
16	(G)	1	X							6/24/2013	1037	X	X	X
17	(G)	1	X							6/24/2013	1040	X	X	X
18	(G)	1	X							6/24/2013	1044	X	X	X
19	(G)	1	X							6/24/2013	1044	X	X	X
20	(G)	1	X							6/24/2013	1112	X	X	X
21	(G)	1	X							6/24/2013	1215	X	X	X

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Inquired By: [Signature]
 Date: 6/24/13
 Received By: [Signature]
 Date: 6/24/13
 Time: 10:46
 Observed Temp. °C: -1.3°C
 Corrected Temp. °C: [Blank]
 Sample Condition: Cool Intact Yes No
 Checked By: [Signature]
 Remarks: 244491
 Verbal Result: Yes No
 All Results are emailed. Please provide Email address:
 Add'l Phone #:
 Turnaround Time: Standard Rush
 Thermometer ID: 4444
 Correction Factor: [Blank]
 Bacteria (only) Sample Condition: Yes No
 Observed Temp. °C: [Blank]
 Corrected Temp. °C: [Blank]



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

October 27, 2023

BRYAN HANEY

ALTAMIRA - US

14229 PUNTA BONAIRE DR.

CORPUS CHRISTI, TX 78418

RE: CTB3 PRODUCED WATER RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/26/23 16:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly legible.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/26/2023	Sampling Date:	10/26/2023
Reported:	10/27/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 16 (0-12) (H235887-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/27/2023	ND	2.05	103	2.00	4.06	
Toluene*	<0.050	0.050	10/27/2023	ND	2.10	105	2.00	4.94	
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.09	104	2.00	3.37	
Total Xylenes*	<0.150	0.150	10/27/2023	ND	6.24	104	6.00	2.70	
Total BTEX	<0.300	0.300	10/27/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/27/2023	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2023	ND	182	90.8	200	8.03	
DRO >C10-C28*	<10.0	10.0	10/27/2023	ND	199	99.5	200	0.376	
EXT DRO >C28-C36	<10.0	10.0	10/27/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/26/2023	Sampling Date:	10/26/2023
Reported:	10/27/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NEW MEXICO		

Sample ID: G - 16 (18-18.5) (H235887-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	10/27/2023	ND	416	104	400	0.00	

Sample ID: SW - 10A (0-17) (H235887-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/27/2023	ND	416	104	400	0.00	

Sample ID: SW - 11A (0-18) (H235887-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/27/2023	ND	416	104	400	0.00	

Sample ID: SW - 12A (0-17) (H235887-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/27/2023	ND	416	104	400	0.00	

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/26/2023	Sampling Date:	10/26/2023
Reported:	10/27/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 17 (0-17) (H235887-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/27/2023	ND	2.05	103	2.00	4.06		
Toluene*	<0.050	0.050	10/27/2023	ND	2.10	105	2.00	4.94		
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.09	104	2.00	3.37		
Total Xylenes*	<0.150	0.150	10/27/2023	ND	6.24	104	6.00	2.70		
Total BTEX	<0.300	0.300	10/27/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	10/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/27/2023	ND	182	90.8	200	8.03		
DRO >C10-C28*	<10.0	10.0	10/27/2023	ND	199	99.5	200	0.376		
EXT DRO >C28-C36	<10.0	10.0	10/27/2023	ND						

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/26/2023	Sampling Date:	10/26/2023
Reported:	10/27/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NEW MEXICO		

Sample ID: SW - 13A (0-17) (H235887-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/27/2023	ND	416	104	400	0.00	

Sample ID: SW - 6A (0-4') (H235887-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/27/2023	ND	416	104	400	0.00	

Sample ID: SW - 5A (0-10') (H235887-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	10/27/2023	ND	416	104	400	0.00	

Sample ID: SW - 1A (0-10') (H235887-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	10/27/2023	ND	416	104	400	0.00	

Sample ID: G - 31 (1-1.5) (H235887-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/27/2023	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

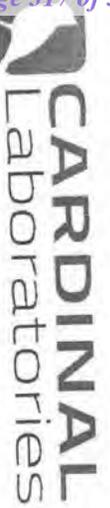
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCS/D recovery and/or RPD values.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not 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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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Altamira
 Project Manager: Bryan Harey
 Address: 4229 Punta Bonaire
 City: Corpus Christi
 State: TX ZIP: 78412
 Phone #: 361-658-3126
 Project Name: NVONM 2308/001
 Project Location: CTB3 Produce Water Release
 Project Name: Loving, New Mexico
 Sampler Name: H. Gonzalez, R. Vinson, O. Gonzalez
 P.O. #: Direct Bill Earthstone
 Company:
 Attn:
 Address:
 City:
 State:
 Zip:
 Phone #:
 Fax #:

Sample I.D.	Matrix	PRESERV.	SAMPLING	DATE		TIME		B T E H		C H L O	
				DATE	TIME	X	X	X	X	X	X
H035887	(G)RAB OR (C)OMP.			10-26-2003	0745	X	X	X	X	X	X
1 SW-16 (10-12)				10-16-2003	1321	X	X	X	X	X	X
2 SW-16 (18-18.5)				10-16-2003	1324	X	X	X	X	X	X
3 SW-10A (8-17)				10-16-2003	1321	X	X	X	X	X	X
4 SW-11A (0-18)				10-16-2003	1331	X	X	X	X	X	X
5 SW-12A (0-19)				10-16-2003	1334	X	X	X	X	X	X
6 SW-17 (0-19)				10-16-2003	1337	X	X	X	X	X	X
7 SW-15A (0-17)				10-16-2003	1404	X	X	X	X	X	X
8 SW-6A (0-4)				10-16-2003	1438	X	X	X	X	X	X
9 SW-5A (0-10)				10-16-2003	1446	X	X	X	X	X	X
10 SW-1A (0-10)				10-16-2003	1446	X	X	X	X	X	X

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Relinquished By: [Signature]
 Date: 10/26/03
 Time: 14:51
 Received By: [Signature]
 Date: 10/26/03
 Time: 14:51
 Observed Temp. °C: 23
 Corrected Temp. °C: [Blank]
 Sample Condition: Cool Intact Yes No
 Checked By: [Signature]
 Turnaround Time: Standard Rush
 Thermometer ID: #115 #140
 Correction Factor: [Blank]
 Verbal Results: Yes No
 All Results are emailed. Please provide Email address:
 Add'l Phone #:
 Remarks: 24hr TAT



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

October 23, 2023

BRYAN HANEY

ALTAMIRA - US

14229 PUNTA BONAIRE DR.

CORPUS CHRISTI, TX 78418

RE: CTB3 PRODUCED WATER RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/20/23 8:01.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/20/2023	Sampling Date:	10/18/2023
Reported:	10/23/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NEW MEXICO		

Sample ID: BF - 1 (H235748-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2023	ND	2.18	109	2.00	1.20	
Toluene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	1.03	
Ethylbenzene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	0.273	
Total Xylenes*	<0.150	0.150	10/21/2023	ND	6.64	111	6.00	0.0904	
Total BTEX	<0.300	0.300	10/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/20/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	194	96.9	200	5.94	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	176	87.8	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane 75.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/20/2023	Sampling Date:	10/18/2023
Reported:	10/23/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NEW MEXICO		

Sample ID: BF - 2 (H235748-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2023	ND	2.18	109	2.00	1.20	
Toluene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	1.03	
Ethylbenzene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	0.273	
Total Xylenes*	<0.150	0.150	10/21/2023	ND	6.64	111	6.00	0.0904	
Total BTEX	<0.300	0.300	10/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/20/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	194	96.9	200	5.94	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	176	87.8	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane 74.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.2 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/20/2023	Sampling Date:	10/18/2023
Reported:	10/23/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NEW MEXICO		

Sample ID: BF - 3 (H235748-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2023	ND	2.18	109	2.00	1.20	
Toluene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	1.03	
Ethylbenzene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	0.273	
Total Xylenes*	<0.150	0.150	10/21/2023	ND	6.64	111	6.00	0.0904	
Total BTEX	<0.300	0.300	10/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/20/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	194	96.9	200	5.94	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	176	87.8	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.3 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ALTAMIRA - US
 BRYAN HANEY
 14229 PUNTA BONAIRE DR.
 CORPUS CHRISTI TX, 78418
 Fax To:

Received:	10/20/2023	Sampling Date:	10/18/2023
Reported:	10/23/2023	Sampling Type:	Soil
Project Name:	CTB3 PRODUCED WATER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2308/001	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NEW MEXICO		

Sample ID: BF - 4 (H235748-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2023	ND	2.18	109	2.00	1.20	
Toluene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	1.03	
Ethylbenzene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	0.273	
Total Xylenes*	<0.150	0.150	10/21/2023	ND	6.64	111	6.00	0.0904	
Total BTEX	<0.300	0.300	10/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/20/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	194	96.9	200	5.94	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	176	87.8	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Altamira
 Project Manager: Bryan Haney
 Address: 4229 Punta Bonaire
 City: Corpus Christi State: TX ZIP: 78412
 Phone #: 361-858-3126
 Project: NVONM 2308/001
 Project Name: CTB3 Produce Water Release
 Project Location: Loving, New Mexico
 Sampler Name: H. Gonzalez, R. Vinson, O. Gonzalez
 Lab I.D.:

P.O. #: Direct Bill Earthstone
 Company:
 Attn:
 Address:
 City:
 State:
 Zip:
 Phone #:
 Fax #:

Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	Matrix						PRESERV.		SAMPLING		B T E H	T P H	S E S
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER ACID/BASE	ICE / COOL	OTHER	DATE	TIME			
HB35748	(C)	1			X						10-18-2008	0510	X	X	X
1 BF-1	(C)	1			X						10-18-2008	0512	X	X	X
2 BF-2	(C)	1			X						10-18-2008	0515	X	X	X
3 BF-3	(C)	1			X						10-18-2008	0516	X	X	X
4 BF-4	(C)	1			X						10-18-2008	0516	X	X	X
	(C)	1			X								X	X	X
	(C)	1			X								X	X	X
	(C)	1			X								X	X	X
	(C)	1			X								X	X	X

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Relinquished By: *[Signature]* Date: 10/18/08
 Received By: *[Signature]* Date: 10/18/08
 Time: 8:00 AM

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: UPS

Observed Temp. °C: -2.3°C
 Corrected Temp. °C: No Yes

Checked By: *[Signature]*
 Turnaround Time: Rush Standard
 Thermometer ID: #113
 Correction Factor: #140

N 32.341990
 W -104.0885981
 DISCOVERY DATE: OCTOBER 10, 2023

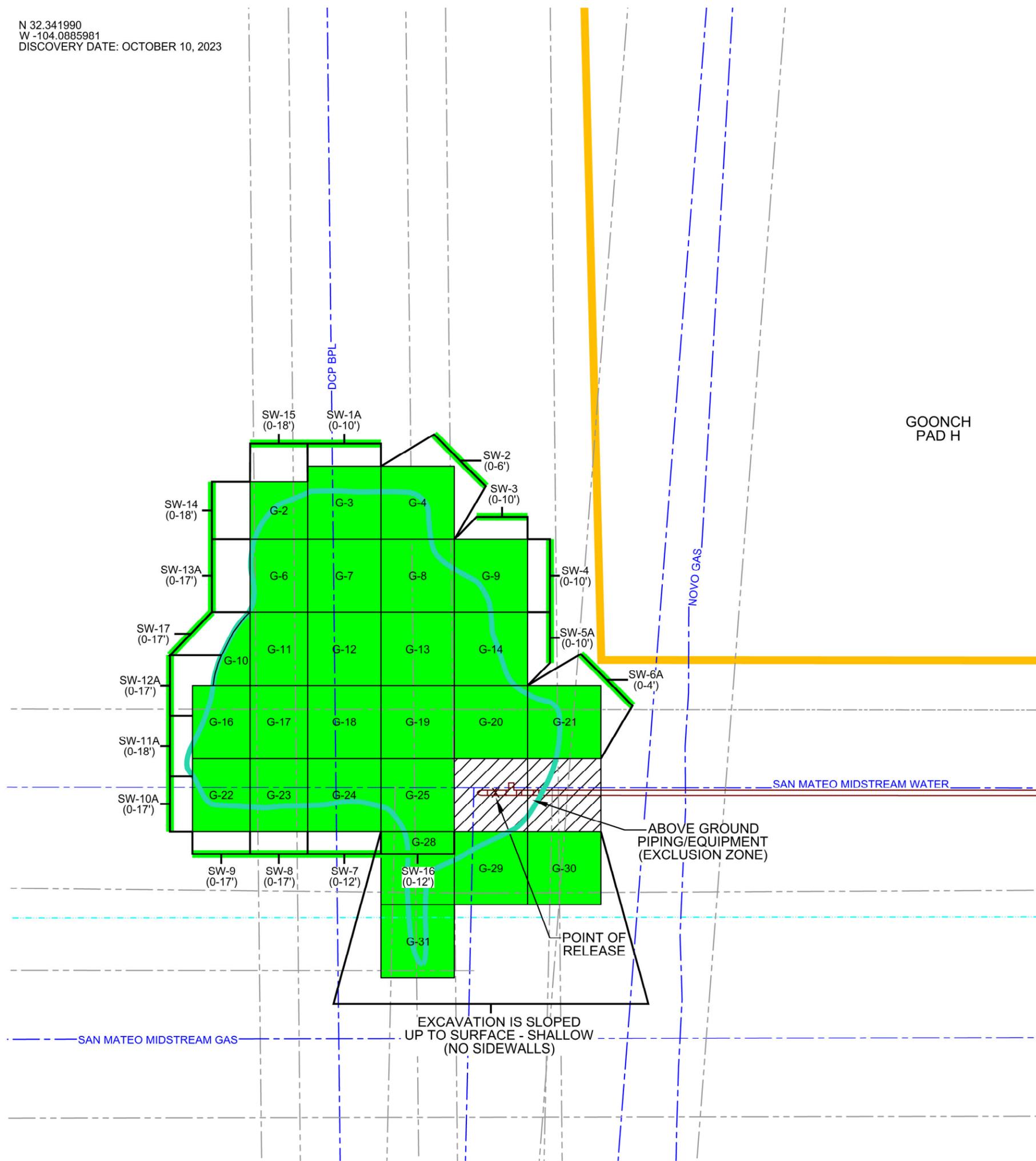


TABLE 1
 NMOCD CLOSURE CRITERIA FOR SOILS (mg/kg)
 (DEPTH TO GROUNDWATER < 51' BGS)

DEPTH	CHLORIDE*	TOTAL TPH	BTEX	BENZENE
0-4'	600	100	50	10
4'+	600	100	50	10

LEGEND

- BURIED PIPELINE
- PIPELINE RIGHT OF WAY
- CONFIRMATION SOIL SAMPLE GRID 200ft^2
- SAMPLE GRID - MEETS NMOCD CLEANUP CRITERIA
- SIDE-WALL SAMPLE - MEETS NMOCD CLEANUP CRITERIA
- PAD
- APPROXIMATE SPILL AREA



Approximate Scale 20'

EARTHSTONE ENERGY
 CULEBRA BLUFF CTB3-PRODUCED WATER RELEASE
 nAPP2328543797
 EDDY COUNTY, NEW MEXICO

EXCAVATION AND SAMPLE GRID MAP

ALTAMIRA

FIGURE **3**

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

QUESTIONS

Action 294081

QUESTIONS

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372920
	Action Number: 294081
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2328543797
Incident Name	NAPP2328543797 CULEBRA BLUFF CTB3 PRODUCED WATER RELEASE @ 0
Incident Type	Produced Water Release
Incident Status	Re-vegetation Report Received

Location of Release Source

Please answer all the questions in this group.

Site Name	CULEBRA BLUFF CTB3 PRODUCED WATER RELEASE
Date Release Discovered	10/10/2023
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Normal Operations Pipeline (Any) Produced Water Released: 50 BBL Recovered: 25 BBL Lost: 25 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	release was general confined to a small area. Volume was determined using dimensions of the release area.

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QUESTIONS, Page 2

Action 294081

QUESTIONS (continued)

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372920
	Action Number: 294081
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	All have been completed

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Bryan Haney Title: Senior Project Manager Email: bryan.haney@altamira-us.com Date: 12/13/2023
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QUESTIONS, Page 3

Action 294081

QUESTIONS (continued)

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372920
	Action Number: 294081
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Site Characterization
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	10400
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	10/12/2023
On what date will (or did) the final sampling or liner inspection occur	10/26/2023
On what date will (or was) the remediation complete(d)	10/28/2023
What is the estimated surface area (in square feet) that will be reclaimed	4800
What is the estimated volume (in cubic yards) that will be reclaimed	1800
What is the estimated surface area (in square feet) that will be remediated	4800
What is the estimated volume (in cubic yards) that will be remediated	1800

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 294081

QUESTIONS (continued)

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372920
	Action Number: 294081
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: Bryan Haney Title: Senior Project Manager Email: bryan.haney@altamira-us.com Date: 12/14/2023
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 294081

QUESTIONS (continued)

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372920
	Action Number: 294081
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Deferral Requests Only

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.

Requesting a deferral of the remediation closure due date with the approval of this submission	No
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QUESTIONS, Page 6

Action 294081

QUESTIONS (continued)

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372920
	Action Number: 294081
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	291189
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/17/2023
What was the (estimated) number of samples that were to be gathered	48
What was the sampling surface area in square feet	9000

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	4800
What was the total volume (cubic yards) remediated	1800
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	4800
What was the total volume (in cubic yards) reclaimed	1800
Summarize any additional remediation activities not included by answers (above)	Affected soil was physically removed and disposed of at an off site facility. Following confirmation soil sampling, the remediated area was backfilled, compacted and contoured. The area was seeded using BLM#2 seed and cover grass per the BLM

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 (in .pdf format) 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.

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.

I hereby agree and sign off to the above statement	Name: Bryan Haney Title: Senior Project Manager Email: bryan.haney@altamira-us.com Date: 12/13/2023
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QUESTIONS, Page 7

Action 294081

QUESTIONS (continued)

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372920
	Action Number: 294081
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Reclamation Report

Only answer the questions in this group if all reclamation steps have been completed.

Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	4800
What was the total volume of replacement material (in cubic yards) for this site	1800

Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.

Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	10/29/2023

Summarize any additional reclamation activities not included by answers (above)	Remediated area has been fully reclaimed. Backfilled with native soil from nearby source, compacted, and graded to match existing topography and allow for natural drainage. Area was seeded using BLM#2 seed mix and suggested native surface cover grasses. Area was watered and inspected.
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The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.

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.

I hereby agree and sign off to the above statement	Name: Bryan Haney Title: Senior Project Manager Email: bryan.haney@altamira-us.com Date: 12/15/2023
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QUESTIONS, Page 8

Action 294081

QUESTIONS (continued)

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372920
	Action Number: 294081
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Revegetation Report

Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.

Requesting a restoration complete approval with this submission	Yes
What was the total revegetation surface area (in square feet) for this site	4800
<i>Per Paragraph (2) of Subsection D of 19.15.29.13 NMAC the responsible party must reseed disturbed area in the first favorable growing season following closure of the site.</i>	
On what date did the reseeded commence	10/29/2023
On what date was the vegetative cover inspected	12/15/2023
What was the life form ratio compared to pre-disturbance levels	50
What was the total percent plant cover compared to pre-disturbance levels	70

Summarize any additional revegetation activities not included by answers (above)	young grasses have been observed over the reclaimed area. The native grasses are expected to go dormant, however the cover crop should continue to take hold. The area was very sparse with vegetation prior to remediation (approximately 25 percent of the surface). Seed and grasses were spread over the entire 4800 square feet area, so overall coverage exceeds original percent coverage.
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The responsible party must attach information demonstrating they have complied with all applicable re-vegetation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any life form ratio and percent plant cover sampling diagrams or other relevant field notes, photographs of re-vegetated areas, and a narrative of the re-vegetation activities. Refer to 19.15.29.13 NMAC.

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.

I hereby agree and sign off to the above statement	Name: Bryan Haney Title: Senior Project Manager Email: bryan.haney@altamira-us.com Date: 12/15/2023
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Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.

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CONDITIONS

Action 294081

CONDITIONS

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372920
	Action Number: 294081
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2328543797 CULEBRA BLUFF CTB3 PRODUCED WATER RELEASE, thank you. This Remediation Closure Report is approved. The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical.	3/21/2024
rhamlet	Pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan. A revegetation report will not be accepted until the release area, including areas reasonably needed for production or drilling activities, are complete. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable. All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil.	3/21/2024
rhamlet	Information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved. OR Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	3/21/2024