

Incident ID	nAPP2235736440
District RP	
Facility ID	
Application ID	

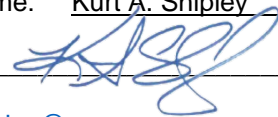
Closure

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

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

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

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

Printed Name: Kurt A. Shipley Title: Chief Operating Officer
Signature:  Date: 4.14.2023
email: kshipley@novooog.com Telephone: 405-286-3916

OCD Only

Received by: Jocelyn Harimon Date: 04/14/2023

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

Closure Approved by: Robert Hamlet Date: 09/01/2023
Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

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	nAPP2235736440
District RP	
Facility ID	
Application ID	169735

Release Notification

Responsible Party

Responsible Party: Novo Oil & Gas Northern Delaware, LLC	OGRID: 372920
Contact Name: Kurt A. Shipley	Contact Telephone: 405-286-3916
Contact email: kshipley@novooog.com	Incident # (assigned by OCD): nAPP2235736440
Contact mailing address: 1001 West Wilshire Blvd., Suite 206 Oklahoma City, OK 73116	

Location of Release Source

Latitude 32.339589

Longitude -104.033673
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Rana Salada Pad A CTB	Site Type: Central Tank Battery
Date Release Discovered: 12/21/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
B	1	T23S	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 checked="" type="checkbox"/> Crude Oil	Volume Released (bbls): Estimated 4	Volume Recovered (bbls): Estimated 4
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls): Estimated 16	Volume Recovered (bbls): Estimated 16
	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

At 2:35 pm on 12/21/2022, a minor release of oil and produced water occurred on the Novo Rana Salada Pad A CTB. The entire volume of the release was contained within the active pad area. Field operation indicate the cause of the release was the result of a failed heater treater fire-tube gasket. Novo was able to quickly identify the failure and shut in flow.

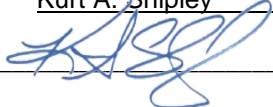
Volume of the release was estimated flow from the fire-tube gasket during the release.

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Released volume does not exceed 25 bbl
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? 12/23/2022 – Bryan Haney conducted NMOCD online notification to obtain incident ID 12/23/2022 – Bryan Haney provided email notification to NMOCD - Mike Bratcher and Robert Hamlet 12/23/2022 – Bryan Haney provided email notification to BLM - Jim Amos	

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 <u>not</u> been undertaken, explain why: All initial response actions above have been completed. Remediation efforts (excavated affected soil) will be confirmed with sampling.	
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.	
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Printed Name: <u>Kurt A. Shipley</u>	Title: <u>Chief Operating Officer</u>
Signature: 	Date: <u>December 23, 2022</u>
email: <u>kshipley@novoog.com</u>	Telephone: <u>405-286-3916</u>
OCD Only	
Received by: <u>Jocelyn Harimon</u>	Date: <u>12/27/2022</u>

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 169826

CONDITIONS

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 1001 West Wilshire Blvd Oklahoma City, OK 73116	OGRID: 372920
	Action Number: 169826
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	12/27/2022

Incident ID	nAPP2235736440
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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?	<u>>51</u> (ft bgs)
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 type="checkbox"/> Yes <input checked="" 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.

Oil Conservation Division

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Printed Name: Kurt A. ShipleyTitle: Chief Operating OfficerSignature: Date: 4.14.2023email: kshipley@novoog.comTelephone: 405-286-3916**OCD Only**Received by: Jocelyn HarimonDate: 04/14/2023

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NOT APPLICABLE - Remediation Plan

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

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

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

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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Printed Name: Kurt A. Shipley Title: Chief Operating Officer

Signature: _____ Date: _____

email: kshipley@novoog.com Telephone: 405-286-3916

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

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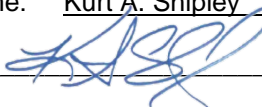
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Printed Name: Kurt A. Shipley Title: Chief Operating Officer
Signature:  Date: 4.14.2023
email: kshipley@novooog.com Telephone: 405-286-3916

OCD Only

Received by: Jocelyn Harimon Date: 04/14/2023

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Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

**Release Response Action Completion
& Closure Report
Incident ID No. nAPP2235736440
Novo Oil & Gas Rana Salada Pad-A Central Tank Battery
- Heater Treater Release
Discovery Date: December 21, 2022
Eddy County, New Mexico**

Prepared for:
Novo Oil & Gas Northern Delaware, LLC
1001 West Wilshire Blvd., Suite 206
Oklahoma City, Oklahoma 73116

Prepared By:
Altamira-US
Bryan Haney, P.G. TX 929
Corpus Christi, Texas 78418
(361)658-3126

April 11, 2023



Release Response Action Completion & Closure Report
Novo Oil & Gas – Rana Salada Pad-A Central Tank Battery - Heater Treater Release
Discovery Date: December 21, 2022

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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
TPH	Total Petroleum Hydrocarbons
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes

1.0 INTRODUCTION

Novo Oil & Gas Northern Delaware, LLC (Novo Oil & Gas) (OGRID No. 372920) operate a facility known as the “Rana Salada Pad-A Central Tank Battery” (Rana Salada Pad-A CTB) located in Unit B, Section 1, T23S, R28E, in Eddy County, New Mexico. On December 21, 2022, field personnel for Novo Oil & Gas discovered a release of crude oil liquids associated with a failed heater treater fire-tube gasket at latitude 32.339589°, longitude -104.033673° (**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 December 21, 2022, at approximately 2:35 pm, Novo personnel identified a release from a heater treater fire-tube gasket situated within the active central tank battery pad area. Approximately 20 barrels of produced water and crude oil liquids released onto the adjacent pad area. The release was contained to the immediate area near the heater treaters and other permanent equipment. Upon discovery of the release, Novo was able to shut in flow to the unit. The release affected the surface pad area on the Rana Salada Pad-A of approximately 40' x 100' (**Figure 3**) and was irregular shaped due to the various pieces of operational equipment.

Novo Oil & Gas estimated approximately 4 barrels of crude oil and 16 barrels of produced water liquids were released; and approximately 20 barrels of crude oil/produced water liquids were recovered using vacuum trucks and 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 fluids released being less than 25 barrels, the release was determined to be a minor release per 19.15.29.1.B NMAC. The initial release notification was submitted online to the New Mexico Oil Conservation District (NMOCD) on December 23, 2022. The OCD issued incident ID# nAPP2235736440. Novo provided email notification of the minor release to both the NMOCD and BLM on December 23, 2022.

The C-141 Release Notification Form was submitted to the online portal on December 23, 2022 (**Attachment A**). The BLM MUE was submitted to Crisha Morgan at the BLM on December 31, 2022 (**Attachment 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 release occurred on property owned by the BLM. Novo will

provide all documentation and this Release Response Action Completion and Site Closure Report to 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 500-foot walking 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 500-feet of the release area.

During review of the Site area, no water wells, springs, of other surface water bodies 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, a single monitoring well (MW-1) was identified approximately 2,600 feet west of the release area. The monitoring well was installed on March 31, 2020 by WPX Energy (POD# C 04417 POD1) to a depth of 55 feet below ground surface, screened from 45-55 feet and noted as "dry". No other wells or water wells were identified.

Based on review of the FEMA Flood Map for the site area, the release area is located in an 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 1.6 miles southwest of the release area. Salt Lake is located approximately 2.0 miles southeast of the release area. No other watercourses were identified within a 0.5-mile radius of the release area.

3.3 Determination of Depth to Groundwater

Soil boring SB-1 was installed at a nearby release site (approximately 1,700 feet west-northwest of the Site) and was advanced to a depth of 55-feet below ground surface. The purpose of advancing soil boring SB-1 to 55-feet was to determine if groundwater was present below 51-feet. During boring advancement, variations of dry unconsolidated soil and sandstone were observed. After reaching total depth (dry at 55-feet), the hole was allowed to stay open for a period of time and then air was used to blow the hole out to provide a second verification that moisture was not present.

Additionally, a monitoring well located approximately 2,600 feet west of the site area was installed by WPX Energy on March 31, 2020. The monitoring well was set at 55-feet below ground surface and screened from 45-55 feet. The provided well information indicated the hole/well was dry.

Based on the lines of evidence provided above, groundwater appears to be deeper than 55-feet below ground surface in the area of the release.

4.0 REMEDIATION

Based on the volume of the release (minor – estimated 20-barrels), Novo determined the best course of action was to move directly to remediation of the affected soil located on Pad-A CTB. Affected soil remediation was conducted on the on-site property between December 22, 2022, through February 17, 2023. Affected soil was excavated or hydro-excavated and loaded into trucks for transport and disposal at the R360 Halfway Facility (NM1-006) located at 6601 Hobbs Highway US 62/180 mile marker 66. 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
 Novo Oil & Gas – Rana Salada Pad-A Central Tank Battery - Heater Treater Release
 Discovery Date: December 21, 2022

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 Novo provided notification to the OCD and BLM via email (**Appendix A**) on December 23, 2022, regarding the intent to conduct soil remediation and confirmation soil sampling at the Novo Rana Salada Pad-A CTB release area.

During December 22, 2022, through February 17, 2023, Novo conducted soil remediation activities on the Rana Salada Pad-A facility at and adjacent to the heater treater fire-tube gasket release point. The release footprint was irregular shaped and butted against the concrete footings of the various pieces of active equipment. Following the release and removal of standing liquids, the visual extent of the known affected soil area was marked. A grid system was established to identify the excavation areas and 200-square foot (or less) confirmation soil sample grid areas. The sample grids were measured and marked with wooden stakes. The sample grids were numbered PA-1 through PA-22 (**Figure 3**). The overall dimensions of the gridded and remediated area were approximately 113 feet by 42 feet. The overall remediation area was larger than the original irregular shaped estimated release area due to the various pieces of equipment and to ensure full remediation was achieved. The on-site active CTB pad area consists of limestone-caliche base material used to create the active pad area. The caliche material is hard and dry. There is no vegetation growing on the Rana Salada Pad-A CTB area. Native soil below the pad base consisted of a reddish silty sand.

Rouge Services was contracted by Novo to conduct the soil excavation, loading, and hauling. Affected soil excavation (hydro-excavation) began on December 22, 2022, and continued through February 17, 2023. Excavated soil was either stockpiled on plastic sheeting or direct loaded to trucks. Water derived from hydro-excavation was either allowed to dry or mix with soil within the stockpile. Soil within each grid was initially excavated to one foot below ground surface. Sidewalls were tapered towards the natural ground surface along each side of the excavation, so that actual sidewalls were not created. Following excavation at each grid, confirmation soil samples were collected and submitted to Cardinal Laboratories for analysis (initial samples collected 01/10/2023). Based on analytical data results from the initial confirmation soil samples, additional excavation was necessary and extended to approximate depths of 2-4 feet below ground surface until analytical data results were below the Table I Closure Criteria.

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
Novo Oil & Gas – Rana Salada Pad-A Central Tank Battery - Heater Treater Release
Discovery Date: December 21, 2022

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 area was further excavated downward another foot 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 Level.

4.3 Waste Management

As described above, affected soil associated with the release was transported to the R360 Halfway Facility (NM1-006) located at 6601 Hobbs Highway US 62/180 mile marker 66. A New Mexico Non-Hazardous Oilfield Waste Manifest was prepared for each truck load of soil material. Manifests are provided in **Appendix D**. A total of 16 truckloads of soil (approximately 272 cubic yards) were transported and disposed for the remediation effort.

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 near the site was investigated and determined to be greater than 51 feet below ground surface. The most stringent closure criteria action levels were utilized to evaluate analytical results for remediation in the 0-4' soil interval. Closure criteria for soils located below four feet were utilized to evaluate confirmation soil samples collected below four feet. 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 grid areas (less than 200 square feet). 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. The remediation area and associated sample grids are depicted on **Figure 3**.

5.1 Confirmation Soil Sampling Results

5.1.1 Chlorides

Analytical results for chlorides showed elevated concentrations in multiple grids in the 1-1.5' sample interval. Those grids were extended at least another foot and resampled for chlorides. Chlorides in grids PA-17, PA-18, and PA-19 were extended to four feet below ground surface. Chlorides in all soil samples except for grid PA-18 (4-4.5') exhibited chloride concentrations less than 600 mg/kg. The chloride concentration at grid PA-19 (4-4.5') was 816 mg/kg. Since grid PA-18 was excavated and sampled below four feet, chloride concentrations were compared to 10,000 mg/kg. **Remediation of chlorides in soil has been completed.**

5.1.2 TPH

TPH was analyzed on all initial confirmation soil samples (1-1.5') and ranged from 602.9 mg/kg to 13,689 mg/kg. All sample grids were further excavated to two feet below ground surface and re-sampled. Grid areas located nearest the heater treaters and main release area required additional excavation up to four feet below ground surface. Following excavation of soil in these areas, additional confirmation soil samples were collected and analyzed for TPH. Analytical results showed TPH concentrations in final confirmation soil samples in the upper four feet and below four feet were below the Closure Criteria of 100 mg/kg. **Remediation of TPH in soil has been completed.**

5.1.3 BTEX

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 in the upper four feet of soil at the Site. Benzene was not detected above the laboratory sample detection limit (not detected). Total BTEX constituents were detected in multiple soil samples with BTEX exceeding the Closure Criteria in soil samples PA-17 (1-1.5'), PA-19 (1-1.5') and PA-21 (1-1.5'), each located immediately adjacent to a heater treater. Analysis of subsequent deeper soil samples showed attenuation of BTEX to below the applicable Closure Criteria. **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 (or less) 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 (affected soil removal) was successful. Concentrations of chlorides, TPH, and BTEX were either not detected above the laboratory reporting limit (not detected) or if detected were below all applicable Closure Criteria standards. 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 from approximately 2.5 to the total depth of the excavation was backfilled using native topsoil (similar to existing silty-sandy very fine-grained soil) from a nearby native soil borrow source. The upper 2.5 feet of the excavated area was backfilled with caliche material to re-establish the active operational pad area. Following placement and compaction of the new native topsoil and caliche pad material, the area was graded and contoured to match the original topography of the Site pad area.

Routine inspection of the Rana Salada Pad-A CTB area has not revealed any erosion of the restored pad. Since this is an active operational pad area, vegetation of this remediated area will not be conducted at this time.

Release Response Action Completion & Closure Report
Novo Oil & Gas – Rana Salada Pad-A Central Tank Battery - Heater Treater Release
Discovery Date: December 21, 2022

7.0 CONCLUSIONS

On December 21, 2022, Novo personnel identified a release from a heater treater fire-tube situated within the active central tank battery. Approximately 20 barrels of crude oil/produced water liquids released onto the adjacent pad area. The release was contained to the immediate area near the heater treaters and other permanent equipment. Upon discovery of the release, Novo was able to shut in flow to the unit.

Approximately 20 barrels of crude oil liquids were released; and approximately 20 barrels of crude oil liquids were recovered using vacuum trucks and removal of affected soil. During December 22, 2022, through February 17, 2023 Novo conducted remediation efforts to remove affected soil and restore the area to pre-release conditions.

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

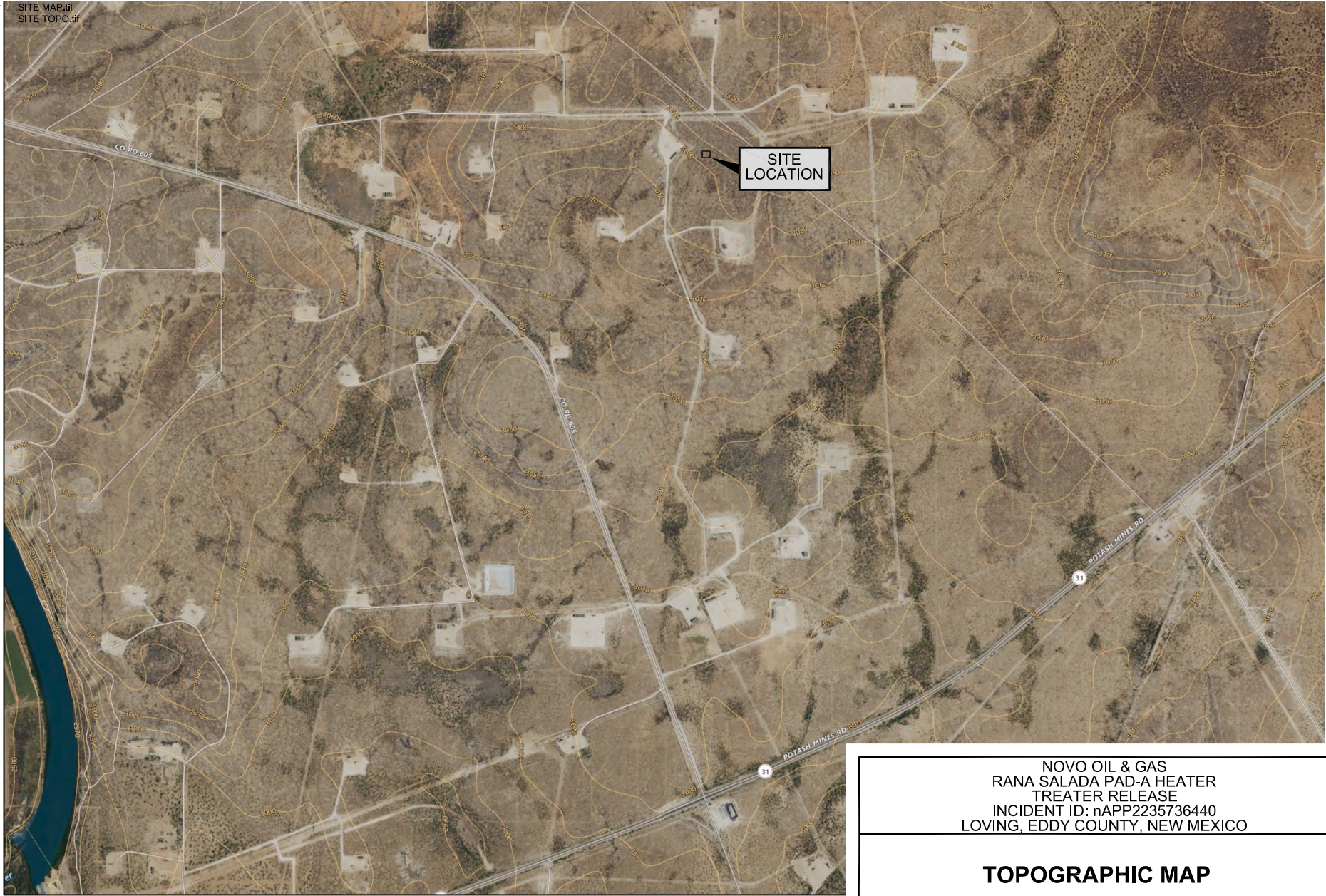
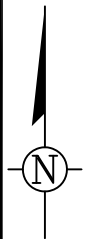
- Soil on-site has been remediated to chloride levels less than 600 mg/kg, TPH less than 100 mg/kg, BTEX less than 50 mg/kg and benzene less than 10 mg/kg in the upper four feet of soil.
- Reclamation and restoration efforts have been completed.
- No further response action/remediation is necessary for this release Site.
- Novo would respectfully like to request regulatory closure for Incident ID: nAPP2235736440.




FIGURES

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON="OFF"REF"
P:\Novo Oil & Gas\INONM2205 - Rana Salada Pad-A CTB 12-21-2022\Figures\INONM2205 - FIGURES.dwg LAYOUT: FIGURE 1 SAVED: 4/8/2023 10:39 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: --- PLOTTED: 4/12/2023 11:18 AM BY: AARON LOZANO


XREFS: IMAGES: PROJECTNAME: ---
LA Border SITE MAP.dwg
SITE TOPO.tif



NOVO OIL & GAS RANA SALADA PAD-A HEATER TREATER RELEASE INCIDENT ID: nAPP2235736440 LOVING, EDDY COUNTY, NEW MEXICO	
TOPOGRAPHIC MAP	
	FIGURE 1

XREFS: IMAGES: PROJECTNAME: ---
LA Border SITE MAP.tif
SITE TOPO.tif



NOVO OIL & GAS RANA SALADA PAD-A HEATER TREATER RELEASE INCIDENT ID: nAPP2235736440 LOVING, EDDY COUNTY, NEW MEXICO	
SITE VICINITY MAP	
 ALTAMIRA	FIGURE 2

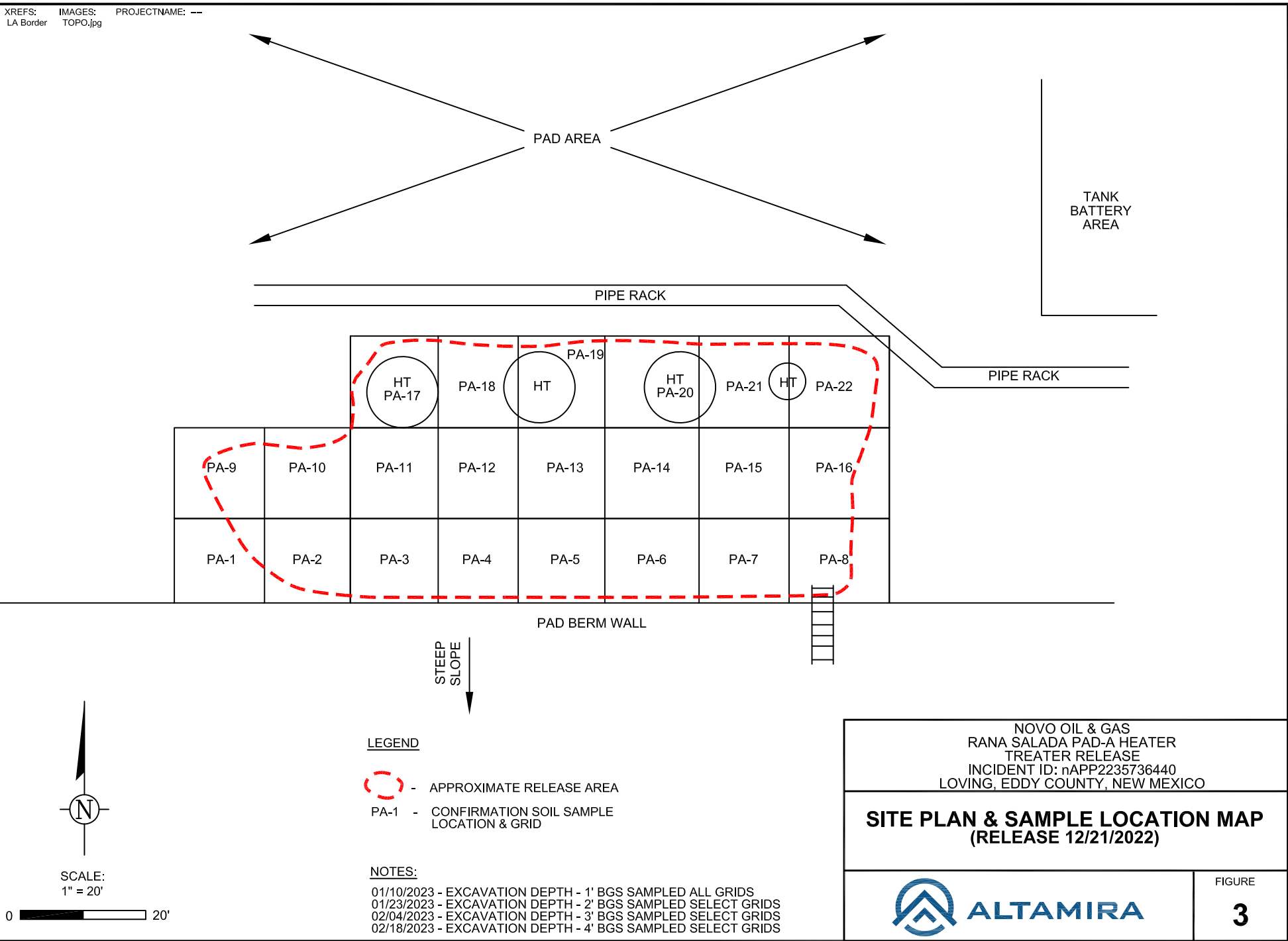




TABLE 1
Analytical Data Results Summary – Post Excavation Soil Samples (mg/kg)

Table 1
Analytical Data Summary -
Post Excavation Soil Samples (mg/kg)
Novo Oil Gas - Rana Salada Pad A CTB Heater Treater Release (12/21/2023)
Incident ID: nAPP2235736440
Near Loving, Eddy County, New Mexico

Analyte Method		Chloride 4500-Cl-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 (4-100')		10000	50	10				2,500
Sample ID	Sample Date							
PA-1 (1-1.5')	1/10/2023	224	1.65	<0.05	132	1290	138	1560
PA-1 (2-2.5')	1/23/2023	96	<0.30	<0.05	<10	<10	<10	<10
PA-2 (1-1.5')	1/10/2023	304	<0.30	<0.05	18.6	1170	135	1323.6
PA-2 (2-2.5')	1/23/2023	256	<0.30	<0.05	<10	<10	<10	<10
PA-3 (1-1.5')	1/10/2023	432	0.594	<0.05	65.8	1750	205	2020.8
PA-3 (2-2.5')	1/23/2023	192	<0.30	<0.05	<10	<10	<10	<10
PA-4 (1-1.5')	1/10/2023	1,480	0.464	<0.05	74.2	1370	147	1591.2
PA-4 (2-2.5')	1/23/2023	176	<0.30	<0.05	<10	<10	<10	<10
PA-5 (1-1.5')	1/10/2023	832	2.56	<0.05	113	1640	113	1866
PA-5 (2-2.5')	1/23/2023	144	<0.30	<0.05	<10	<10	<10	<10
PA-6 (1-1.5')	1/10/2023	464	2.53	<0.05	112	1440	121	1673
PA-6 (2-2.5')	1/23/2023	192	<0.30	<0.05	<10	43.7	<10	43.7
PA-7 (1-1.5')	1/10/2023	240	2.47	<0.05	183	1530	67.2	1780.2
PA-7 (2-2.5')	1/23/2023	160	<0.30	<0.05	<10	33.7	<10	33.7
PA-8 (1-1.5')	1/10/2023	336	7.22	<0.05	185	1220	66.8	1471.8
PA-8 (2-2.5')	1/23/2023	128	<0.30	<0.05	<10	29.4	<10	29.4
PA-9 (1-1.5')	1/10/2023	576	22.1	<0.05	421	2480	192	3093
PA-9 (2-2.5')	1/23/2023	96	<0.30	<0.05	<10	<10	<10	<10
PA-10 (1-1.5')	1/10/2023	784	0.859	<0.05	55.4	1590	118	1763.4
PA-10 (2-2.5')	1/23/2023	144	<0.30	<0.05	<10	21.1	<10	21.1
PA-11 (1-1.5')	1/10/2023	896	0.868	<0.05	66.9	1150	86	1302.9
PA-11 (2-2.5')	1/23/2023	512	<0.30	<0.05	<10	163	<10	163

Table 1
Analytical Data Summary -
Post Excavation Soil Samples (mg/kg)
Novo Oil Gas - Rana Salada Pad A CTB Heater Treater Release (12/21/2023)
Incident ID: nAPP2235736440
Near Loving, Eddy County, New Mexico

Analyte Method	Chloride 4500-Cl-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 (4-100')	10000	50	10				2,500
Sample ID	Sample Date						
PA-11 (3-3.5')	2/4/2023	---	---	---	<10	<10	<10
PA-12 (1-1.5')	1/10/2023	1,630	0.432	<0.05	31.1	1560	129
PA-12 (2-2.5')	1/23/2023	288	<0.30	<0.05	<10	<10	<10
PA-13 (1-1.5')	1/10/2023	784	0.46	<0.05	53.2	1320	82.1
PA-13 (2-2.5')	1/23/2023	544	<0.30	<0.05	<10	194	<10
PA-13 (3-3.5')	2/4/2023	---	---	---	<10	<10	<10
PA-14 (1-1.5')	1/10/2023	368	0.178	<0.05	23.1	540	39.8
PA-14 (2-2.5')	1/23/2023	400	<0.30	<0.05	<10	43.4	<10
PA-15 (1-1.5')	1/10/2023	192	2.6	<0.05	126	1020	74.9
PA-15 (2-2.5')	1/23/2023	160	<0.30	<0.05	<10	50.1	<10
PA-16 (1-1.5')	1/10/2023	1,200	6.54	<0.05	187	1390	115
PA-16 (2-2.5')	1/23/2023	144	<0.30	<0.05	<10	<10	<10
PA-17 (1-1.5')	1/10/2023	5,040	73.9	<0.2	981	6260	509
PA-17 (2-2.5')	1/23/2023	1410	<0.30	<0.05	<10	90.6	<10
PA-17 (3-3.5')	2/4/2023	832	---	---	---	---	---
PA-17 (4-4.5')	2/18/2023	240	---	---	---	---	---
PA-18 (1-1.5')	1/10/2023	3,200	24.9	<0.05	841	6230	695
PA-18 (2-2.5')	1/23/2023	1760	0.888	<0.05	11.8	276	20.1
PA-18 (3-3.5')	2/4/2023	2280	---	---	<10	<10	<10
PA-18 (4-4.5')	2/18/2023	816 *	---	---	---	---	---
PA-19 (1-1.5')	1/10/2023	816	77.7	<0.2	1300	5710	542
PA-19 (2-2.5')	1/23/2023	1920	<0.30	<0.05	<10	116	<10
PA-19 (3-3.5')	2/4/2023	1170	---	---	<10	379	37.1
PA-19 (4-4.5')	2/18/2023	560	---	---	<10	23.8	<10

Table 1
Analytical Data Summary -
Post Excavation Soil Samples (mg/kg)
Novo Oil Gas - Rana Salada Pad A CTB Heater Treater Release (12/21/2023)
Incident ID: nAPP2235736440
Near Loving, Eddy County, New Mexico

Analyte Method	Chloride 4500-Cl-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 (4-100')	10000	50	10				2,500		
Sample ID	Sample Date								
PA-20 (1-1.5')	1/10/2023		1,360	33.6	<0.2	964	5250	483	6697
PA-20 (2-2.5')	1/23/2023		432	<0.30	<0.05	<10	158	<10	158
PA-20 (3-3.5')	2/4/2023		---	---	---	<10	52.6	<10	52.6
PA-21 (1-1.5')	1/10/2023		304	124	<0.5	2580	10700	409	13689
PA-21 (2-2.5')	1/23/2023		688	<0.30	<0.05	19.9	936	79.8	1035.7
PA-21 (3-3.5')	2/4/2023		---	---	---	<10	<10	<10	<10
PA-22 (1-1.5')	1/10/2023		4,240	1.85	<0.05	145	2100	180	2425
PA-22 (2-2.5')	1/23/2023		192	<0.30	<0.05	<10	<10	<10	<10

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 greater than 51 feet below ground surface



APPENDIX A
Notification and Agency Correspondence

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	nAPP2235736440
District RP	
Facility ID	
Application ID	169735

Release Notification

Responsible Party

Responsible Party: Novo Oil & Gas Northern Delaware, LLC	OGRID: 372920
Contact Name: Kurt A. Shipley	Contact Telephone: 405-286-3916
Contact email: kshipley@novooog.com	Incident # (assigned by OCD): nAPP2235736440
Contact mailing address: 1001 West Wilshire Blvd., Suite 206 Oklahoma City, OK 73116	

Location of Release Source

Latitude 32.339589

Longitude -104.033673
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Rana Salada Pad A CTB	Site Type: Central Tank Battery
Date Release Discovered: 12/21/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
B	1	T23S	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 checked="" type="checkbox"/> Crude Oil	Volume Released (bbls): Estimated 4	Volume Recovered (bbls): Estimated 4
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls): Estimated 16	Volume Recovered (bbls): Estimated 16
	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

At 2:35 pm on 12/21/2022, a minor release of oil and produced water occurred on the Novo Rana Salada Pad A CTB. The entire volume of the release was contained within the active pad area. Field operation indicate the cause of the release was the result of a failed heater treater fire-tube gasket. Novo was able to quickly identify the failure and shut in flow.

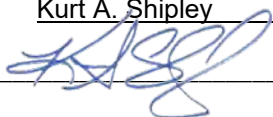
Volume of the release was estimated flow from the fire-tube gasket during the release.

Incident ID	nAPP2235736440
District RP	
Facility ID	
Application ID	169735

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Released volume does not exceed 25 bbl
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? 12/23/2022 – Bryan Haney conducted NMOCD online notification to obtain incident ID 12/23/2022 – Bryan Haney provided email notification to NMOCD - Mike Bratcher and Robert Hamlet 12/23/2022 – Bryan Haney provided email notification to BLM - Jim Amos	

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 <u>not</u> been undertaken, explain why: All initial response actions above have been completed. Remediation efforts (excavated affected soil) will be confirmed with sampling.	
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>Kurt A. Shipley</u>	Title: <u>Chief Operating Officer</u>
Signature: 	Date: <u>December 23, 2022</u>
email: <u>kshipley@novoog.com</u>	Telephone: <u>405-286-3916</u>
OCD Only	
Received by: <u>Jocelyn Harimon</u>	Date: <u>12/27/2022</u>

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 169826

CONDITIONS

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 1001 West Wilshire Blvd Oklahoma City, OK 73116	OGRID: 372920
	Action Number: 169826
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	12/27/2022



United States Department of Interior
Bureau of Land Management
Major Undesirable Event Report

Report Type: Initial 24-Hour <input type="checkbox"/> 15-Day/Final <input checked="" type="checkbox"/> Other/Follow-up <input type="checkbox"/>					
BLM Field Office: Carlsbad, NM			State: New Mexico		
BLM Contact: Crisha Morgan			Date of this Report: 12/31/2022		
Company Official Reporting to BLM: Kurt Shipley and Bryan Haney (Altamira)					
Operator: Novo Oil & Gas Northern Delaware, LLC					
Date/Time of Occurrence: 12/21/2022 at 2:35 pm			Date/Time BLM Notified: 12/23/2022		
Field/Unit Name: B			Lease Number:		
State: NM	County: Eddy	Twp: T23S	Rng: R28E	Sec: 1	Qtr:
Latitude/ Longitude: 32.339589, -104.033673					
Surface Ownership: BLM/Private		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 checked="" type="checkbox"/>	Gas Venting <input type="checkbox"/>	Toxic Fluid Spill <input type="checkbox"/>		
Saltwater Spill <input 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: Minor release approximately 20 bbl of oil and water mixture. Release occurred on the <u>Novo Rana Salad Pad</u> <u>A Central Tank Battery</u> as a results of a failed heater treater fire-tube gasket.					
Environmental Impact: Mist/spray to surface pad (active pad area only – did not impact off site property)					
Time Required to Control Event (Hours):		Approximately 1 hour			
Volume Discharged or Consumed:		Oil: <u>4</u> bbls	Water: <u>16</u> bbls	Gas: ____ mcf	
Volumes Recovered:		Oil: <u>4</u> bbls	Water: <u>16</u> bbls		
Net Volume Lost:		Oil: <u>0</u> bbls	Water: <u>0</u> bbls	Gas: ____ mcf	
Action Taken to Control Event: Use vacuum truck to remove standing recoverable liquids. Use earth moving equipment to scrape and remove affected soil area					
Resulting Damage: minor surface staining to active pad area at central tank battery					
Clean-Up Procedures: Use of vacuum truck and soil excavation machinery to remove standing liquids and affected soil.					
Cause/Extent of Personal Injury: None					
Actions the operator has taken or will take to prevent a recurrence of the incident: Equipment has been repaired.					
Agency Notification List: (Federal/ State/ Local):	Agency Name	Contact Name	Date/Time		
	NMOCD	Mike Bratcher (email)	12/23/2022 at 7:44pm		
	NMOCD	Online Portal – Notify	12/23/2022 at 11:08pm		
	BLM	Jim Amos (email)	12/23/2022 at 7:45pm		

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.

None associated with this equipment on Pad A.

From: Bryan Haney
Sent: Wednesday, March 15, 2023 3:33 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Cc: Kurt Shipley <kshipley@novoog.com>; Dara Tatum <dtatum@novoog.com>
Subject: nAPP2235736440 - REQUEST FOR TIME EXTENSION - Novo Ovation Pad-O Heater Treater Fire Tube Release

Rob and Mike,

Novo would like to request a 30-day time extension to complete and submit the Final Closure Report. Remediation efforts are complete and the excavation has been backfilled. We are waiting on some final waste disposal documentation and will get the report submitted shortly after.

Thank you,

Bryan

Bryan Haney, TX P.G

Senior Project Manager | 361.658.3126 |

Bryan.Haney@altamira-us.com

altamira-us.com



From: OCDOnline@state.nm.us
To: [Bryan Haney](#)
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 169735
Date: Friday, December 23, 2022 11:07:51 AM

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#) nAPP2235736440,
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 nAPP2235736440, 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

From: [Bryan Haney](#)
To: "Jim Amos"
Cc: [Kurt Shipley](#); [Dara Tatum](#)
Subject: Notification Minor Release - nAPP2235736440 - Novo Rana Salada Pad A CTB - Central Tank Battery
Date: Friday, December 23, 2022 7:45:00 PM
Attachments: [11-23-2022 - \(OCD\) has accepted the application. Application ID _169735.pdf](#)
[image001.png](#)
[nAPP2235736440 - C-141 Initial Notification 12-23-2022.pdf](#)

Jim,

On behalf of Novo Oil and Gas, I am providing written email notification of a minor release that occurred on December 21, 2022 at the Rana Salada Pad A CTB Central Tank Battery. Approximately 16 bbl of produced water and 4 bbl of crude oil were released as a results of a failed heater treater fire-tube gasket. Liquids were removed by vacuum truck and the affected soil area was excavated. Confirmation soil sampling will be conducted in early January 2023.

Once confirmation soil sample results confirm remediation of TPH, BTEX and chlorides in soil, Novo will prepare and submit a Site Closure Report.

If you have any questions please contact myself or Kurt Shipley with Novo Oil and Gas.

Thank you,

Bryan Haney, TX P.G

Senior Project Manager | 361.658.3126 |

Bryan.Haney@altamira-us.com

altamira-us.com



From: [Bryan Haney](#)
To: [Hamlet, Robert, EMNRD](#); [Bratcher, Michael, EMNRD](#)
Cc: [Kurt Shipley](#); [Dara Tatum](#)
Subject: Notification Minor Release - nAPP2235736440 - Novo Rana Salada Pad A CTB - Central Tank Battery
Date: Friday, December 23, 2022 7:43:00 PM
Attachments: [11-23-2022 - \(OCD\) has accepted the application. Application ID _169735.pdf](#)
[image001.png](#)
[nAPP2235736440 - C-141 Initial Notification 12-23-2022.pdf](#)

Rob and Mike,

On behalf of Novo Oil and Gas, I am providing written email notification of a minor release that occurred on December 21, 2022 at the Rana Salada Pad A CTB Central Tank Battery. Approximately 16 bbl of produced water and 4 bbl of crude oil were released as a results of a failed heater treater fire-tube gasket. Liquids were removed by vacuum truck and the affected soil area was excavated. Confirmation soil sampling will be conducted in early January 2023.

Once confirmation soil sample results confirm remediation of TPH, BTEX and chlorides in soil, Novo will prepare and submit a Site Closure Report.

If you have any questions please contact myself or Kurt Shipley with Novo Oil and Gas.

Thank you,

Bryan Haney, TX P.G

Senior Project Manager | 361.658.3126 |

Bryan.Haney@altamira-us.com

altamira-us.com



From: OCDOnline@state.nm.us
To: [Bryan Haney](#)
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 169826
Date: Tuesday, December 27, 2022 9:26:54 AM

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#) nAPP2235736440, 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,
Jocelyn Harimon
Environmental Specialist
575-748-1283
Jocelyn.Harimon@emnrd.nm.gov

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

From: [Bryan Haney](#)
To: [BLM NM CFO REALTY Spill](#)
Cc: [Kurt Shipley](#); [Dara Tatum](#); [Brad Walls](#)
Subject: NOVO Oil and Gas - Minor Release Notification - Rana Salada Pad Area 12/21/2022
Date: Wednesday, December 28, 2022 4:04:00 PM
Attachments: [image001.png](#)
[11-23-2022 - \(OCD\) has accepted the application. Application ID 169735.pdf](#)
[nAPP2235736440 - C-141 Initial Notification 12-23-2022.pdf](#)

Attached is the C-141 for the Novo Rana Salada minor release on-pad. To date, the area has been remediated to the best extent practicable and confirmation soil sampling will be conducted in January 2023 to confirm. If you have any questions or require additional documentation please contact me directly for those requests.

Thank you,

Bryan Haney, TX P.G

Senior Project Manager | 361.658.3126 |

Bryan.Haney@altamira-us.com

altamira-us.com



From: [Bryan Haney](#)
To: [Hamlet, Robert, EMNRD](#); [Bratcher, Michael, EMNRD](#)
Cc: [Kurt Shipley](#); [Dara Tatum](#)
Subject: nAPP2235736440 - REQUEST FOR TIME EXTENSION - Novo Ovation Pad-O Heater Treater Fire Tube Release
Date: Wednesday, March 15, 2023 3:33:00 PM
Attachments: [Fully Executed C-141 Notification.pdf](#)
[image001.png](#)

Rob and Mike,

Novo would like to request a 30-day time extension to complete and submit the Final Closure Report. Remediation efforts are complete and the excavation has been backfilled. We are waiting on some final waste disposal documentation and will get the report submitted shortly after.

Thank you,

Bryan

Bryan Haney, TX P.G

Senior Project Manager | 361.658.3126 |

Bryan.Haney@altamira-us.com

altamira-us.com



From: [Hamlet, Robert, EMNRD](#)
To: [Bryan Haney](#)
Cc: [Kurt Shipley](#); [Dara Tatum](#); [Bratcher, Michael, EMNRD](#); [Nobui, Jennifer, EMNRD](#); [Harimon, Jocelyn, EMNRD](#)
Subject: (Extension Approval) - RE: nAPP2235736440 - REQUEST FOR TIME EXTENSION - Novo Ovation Pad-A Heater Treater
Date: Wednesday, March 15, 2023 4:05:02 PM
Attachments: [image003.png](#)

RE: Incident #**NAPP2235736440**

Bryan,

Your request for an extension to **April 21st, 2023** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Bryan Haney <Bryan.Haney@altamira-us.com>
Sent: Wednesday, March 15, 2023 2:35 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Cc: Kurt Shipley <kshipley@novoog.com>; Dara Tatum <dtatum@novoog.com>
Subject: [EXTERNAL] RE: nAPP2235736440 - REQUEST FOR TIME EXTENSION - Novo Ovation Pad-A Heater Treater

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

CORRECTION – this is for Pad-A Heater Treater Release

Bryan Haney, TX P.G

Senior Project Manager | 361.658.3126 |

Bryan.Haney@altamira-us.com

altamira-us.com





APPENDIX B
Photographic Documentation

Appendix B
Photograph Log – Pad A CTB Heater Treater Release
Incident ID: nAPP2235736440



View northeast at heater treater and release from gasket, spill area

Appendix B
Photograph Log – Pad A CTB Heater Treater Release
Incident ID: nAPP2235736440



View northeast at release area – excavated to 1-foot below ground surface



View east at further excavated area

Appendix B
Photograph Log – Pad A CTB Heater Treater Release
Incident ID: nAPP2235736440



View west at soil excavation area

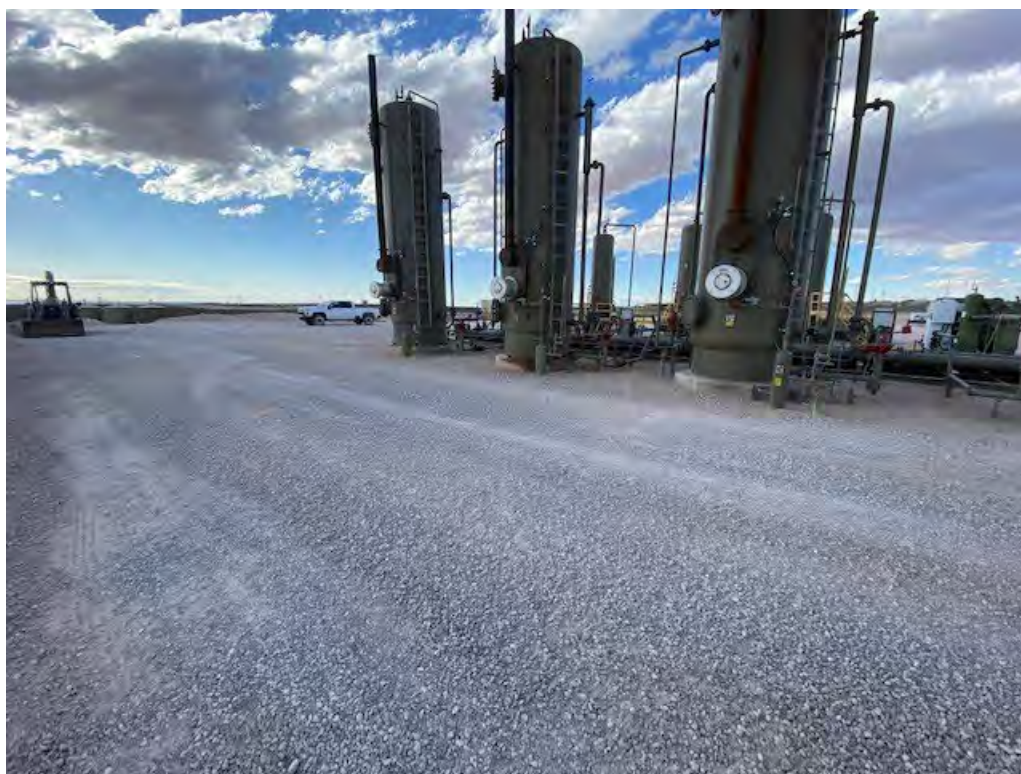


View east at final excavated area following sampling and prior to backfill

Appendix B
Photograph Log – Pad A CTB Heater Treater Release
Incident ID: nAPP2235736440



View east at backfilled area around heater treaters



View northwest at backfilled former release area



APPENDIX C
Field Documentation

01/10/23 Now Pool "A" Release

1015° Arrived on Site

- Surveyed (16) 14x14 grids & (6) 14x11 grids
- Sampled Soil within grids
- Orlando created new site map depicting newly excavated area.

1310 • Sampled bottles & put on ice & departed Site for Pool "O".

11/24/2023

Abdo Lam Saladen APAD

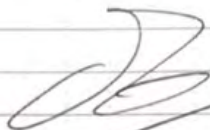
Objectives: Re Mark Profile GRID

Personel: Abdo Gouda Stormy waters

1448 Arrive @ site set up to mark Grids using existing
stakes that were left After excavation, used wooden stakes
& 10" spikes with flagging to mark grids

1612 All grids marked Area cleaned up tools loaded on
truck

1621 Depart site



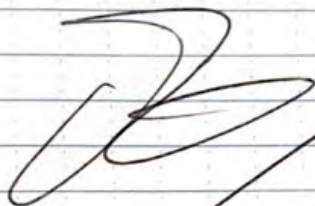
1/23/2023

NOVA Rana Saleda APad

Objectives: collect confirmation samples

Personnel: Aldo Gonzalez Stormy Waters

1420 arrive @ site to collect samples from All grids - Grids
will be sampled using Stainless Steel trawl lined with
distilled water & Alconox Small distilled water pinto
1528 All samples collected & on ice to deliver to lab
1533 depart site to deliver samples



2/4/2023

Nodo Rana Saleda A Pad confirmation Sampling,

Objectives: collect confirmation samples from PA 11, 13, 17, 18, 19, 20, 21

Personnel: D. Gonzalez, J. Gonzalez

0800 Depart for site

0830 Arrive @ site ISA Sampling objectives discussed

0840 Set up sampling equipment & decontaminate with Alconex & distilled water final distilled water rinse

0856 All Jars labeled & prepared for samples

0910 Received call back from Pete T. let him know we were going to be onsite to collect samples.

0918 Start collecting samples

0950 Sampling complete didn't collect PA-21 As Grid had not been excavated to depth of 3' BGS. called

Pete no answer; called Bryan no answer on samples in cooler with ice

1010 depart site for Ovation pad

2/11/2023

Noua Rana Saladee Pad A

Objectives: collect confirmation samples from 3

locations

Personnel: Alvaro Gonzalez; Jimmy Gonzalez

Weather: sunny breezy temps 30's - 40's

0840 depart for site

0904 Arrive @ site completed JSA did site walk
to identify sample grids0920 decontaminated Hand Auger with Alconox & distilled water
final rinse of distilled water

0927 Began @ RA-17 to Advance to 4' BGS made

several Attempts to Advance Auger were unable
due to rocks 2' below surface. decontaminated Auger to

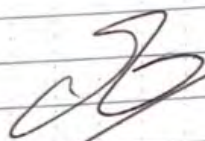
Attempt sampling @ Grids RA-18 & RA-19.

1010 called Bryan to Inform him that After multiple

Attempts were unable to collect samples

1015 All equipment secured & cleaned

1018 depart site



2/18/2023

Abou Kana Salada APad

Objectives: collect 1000 random samples from Grabs
PA-17, PA-18, PA-19

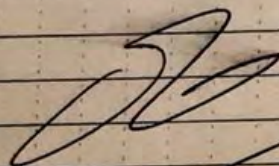
Weather: overcast light breeze 11-15 mph from south

Personnel: O. Gonzalez

0900 depart for site

0948 Arrive @ site inspect single area that has ~~to~~ been
excavated by Regue1000 decom hand trawl with 1/10 dx + distilled water with
distilled water rinse. will be decom as described bottom
grids.

1020 Begin sampling. After setting stakes to mark grids

1036 completed sampling. Samples in jars on ice in cooler
took final site photos.

Client: NOVOPage: 1 of 1Date: 12/31/2022Project: RANASALIDA PAD-A CTB
RELEASE ON 12/21/2022By: BH11/0/2023 - Excavation Depth - 1' BGS
SAMPLED

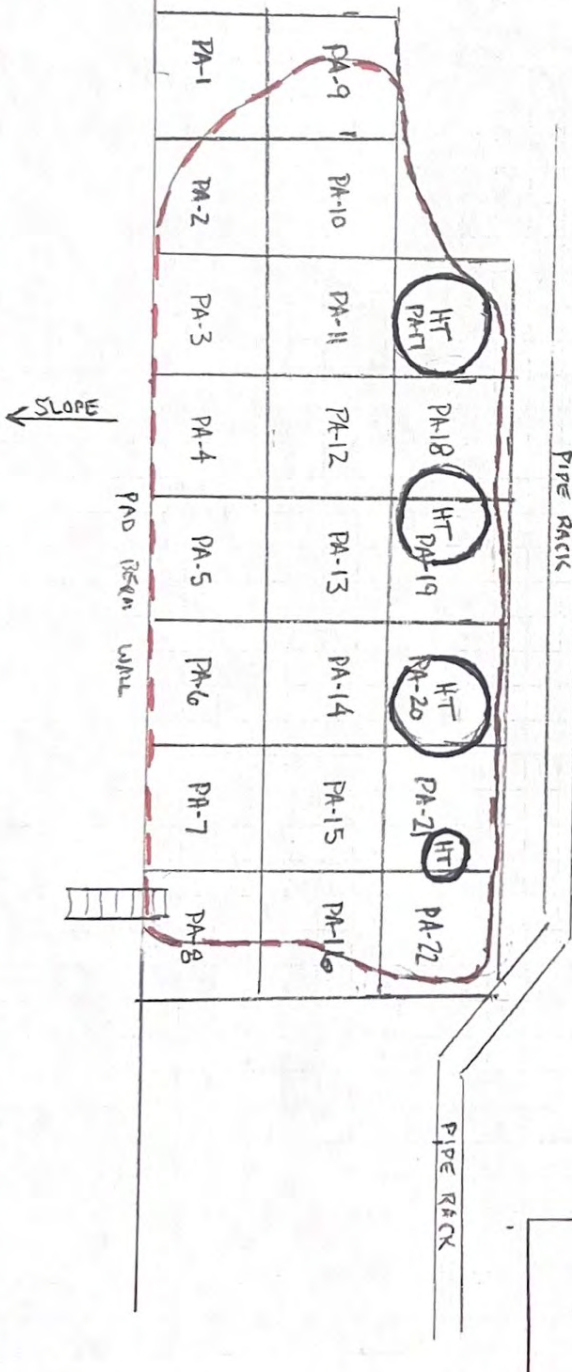
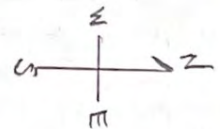
LEGEND

 - APPROXIMATE
RELEASE AREA

 PA-1 - Confirmation
Soil Sample
Location &
Grid

PAD AREA

PIPE RACK

TANK
BATTERY
AREA



APPENDIX D
Waste Management Documentation



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

Company Man Contact Information

Name

Phone No.

GENERATOR

NO. 588834

Operator No.

Operator's Name

Address

City, State, Zip

Phone No.

Permit/RRC No.

Lease/Well

Name & No.

County

API No.

Rig Name & No.

AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)		
Oil Based Muds	NON-EXEMPT WASTE	INJECTABLE WATERS
Oil Based Cuttings	Washout Water (Non-injectable)	Washout Water (injectable)
Water Based Muds	Completion Fluid/Flow back (Non-injectable)	Completion Fluid/Flow back (injectable)
Water Based Cuttings	Produced Water (Non-injectable)	Produced Water (injectable)
Produced Formation Solids	Gathering Line Water/Waste (Non-injectable)	Gathering Line Water/Waste (injectable)
Tank Bottoms	INTERNAL USE ONLY	OTHER EXEMPT WASTES (check and describe below)
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS:

☐ DRILLING☐ COMPLETION☐ PRODUCTION☐ GATHERING LINES

Non-Exempt Other

B - BARRELS

L - LIQUID

Y - YARDS

E - EACH

QUANTITY

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

☐ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations; 40 CFR 261.21-261.24; or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD:

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

DATE

SIGNATURE

(PRINT) ANY AGENCY OR STATE NAME

TRANSPORTER

Transporter's

Name

Address

Phone No.

Driver's Name

Print Name

Phone No.

Truck No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP	
IN:	OUT:

DISPOSAL FACILITY

RECEIVING AREA

Name/No.

Site Name/

Permit No.

Address

Halfway Facility / NM1-005

6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

Phone No.

575-393-1079

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading > 50 micro roentgens? (circle one)

YES

NO

PASS THE PAINT FILTER TEST? (Circle One)

YES

NO

TANK BOTTOMS

1st Gauge

2nd Gauge

Received

Feet

Inches

BS&W/BOLS Received

Free Water

Total Received

BS&W (%)

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TIME

SIGNATURE

C-138

White - R360 ORIGINAL

Yellow - TRANSPORTER COPY

Pink - GENERATOR SITE COPY

Gold - RETURN TO GENERATOR

Version 1



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

Company Man Contact Information

Name

Phone No.

GENERATOR

NO. 588835

Operator No.

Operator's Name

Address

City, State, Zip

Phone No.

Permit/RRC No.

Lease/Well

Name & No.

County

API No.

Rig Name & No.

APE/PO No.

EXEMPT E&P Waste/Service Identification and amount (in volume) (in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	INJECTABLE WATERS
Oil Based Cuttings	Washout Water (Non-injectable)	Washout Water (injectable)
Water Based Muds	Completion Fluid/Flow back (Non-injectable)	Completion Fluid/Flow back (injectable)
Water Based Cuttings	Produced Water (Non-injectable)	Produced Water (injectable)
Produced Formation Solids	Gathering Line Water/Waste (Non-injectable)	Gathering Line Water/Waste (injectable)
Tank Bottoms	INTERNAL TANK OIL	OTHER EXEMPT WASTES (name and amount in barrels or cubic yards)
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and amount

All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCF), ignitability, corrosivity and reactivity.

Non-Exempt Other

*please select from Non-Exempt Waste List on back

QUANTITY 12 B - BARRELS L - LIQUID Y - YARDS E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is (Check the appropriate classification)

☐ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD:

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

DATE

SIGNATURE

TRANSPORTER

Transporter's

Name

Address

Phone No.

Driver's Name

Print Name

Phone No.

Truck No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: OUT:

Name/No.

Site Name/

Permit No.

Address

Phone No.

575-393-1079

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading > 50 micro roentgens? (circle one)

YES

NO

PASS THE PAINT FILTER TEST? (Circle One)

YES

NO

TANK BOTTOMS

1st Gauge

2nd Gauge

Received

Foot

Inches

BS&W/BBLs Received

Free Water

Total Received

BS&W (%)

I hereby certify that the above load material has been (circle one)

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

C-138

White - R360 ORIGINAL

Yellow - TRANSPORTER COPY

Pink

GENERATOR SITE COPY

Gold - RETURN TO GENERATOR

Version 1



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

Company Man Contact Information

Name _____

Phone No. _____

GENERATORNO. **588833**

Operator No. _____

Operators Name _____

Address _____

City, State, Zip _____

Phone No. _____

Permit/RRC No. _____

Lease/Well Name & No. _____

County _____

API No. _____

Rig Name & No. _____

AFF/PO No. _____

EXEMPT E&P Waste, Service Material, and Amount (Please volume next to waste type in barrels or cubic yards)

OIL BASED MUDS	NON-INJECTABLE WATERS	INJECTABLE WATERS
Oil Based Cuttings	Washout Water (Non-Injectable)	Washout Water (Injectable)
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	Completion Fluid/Flow back (Injectable)
Water Based Cuttings	Produced Water (Non-Injectable)	Produced Water (Injectable)
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	Gathering Line Water/Waste (Injectable)
Tank Bottoms	Other (Non-Injectable)	Other (Injectable)
E&P Contaminated Soil	Truck Washout (Exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste, Service Material, and Amount

All non-exempt E&P waste must be analyzed and be below the threshold limits for Toxicity, Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *Please select from Non-Exempt Waste List on back

QUANTITY ☐ B - BARRELS ☐ L - LIQUID ☐ Y - YARDS ☐ E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

- ☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

☐ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED REPRESENTATIVE

DATE

SIGNATURE

TRANSPORTER

Transporter's Name _____

Address _____

Phone No. _____

Driver's Name _____

Print Name _____

Phone No. _____

Truck No. _____

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: _____ OUT: _____

Name/No. _____

Site Name/Permit No. _____

Phone No. 575-393-1079

Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

NORM READINGS TAKEN? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (circle one) YES NO

PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS

1st Gauge
2nd Gauge
Received

Feet

Inches

BS&W/BBLs Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one) ACCEPTED DENIED If denied, why? _____

NAME (PRINT)

DATE

TITLE

SIGNATURE

C-138

White - R360 ORIGINAL

Yellow - TRANSPORTER COPY

Pink - GENERATOR SITE COPY

Gold - RETURN TO GENERATOR

Version 1



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

Company Man Contact Information

Name

Phone No.

GENERATOR

NO. 588832

Operator No.

Operator's Name

Address

City, State, Zip

Phone No.

Permit/RRC No.

Lease/Well

Name & No.

County

API No.

Rig Name & No.

AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

OIL BASED MUDS	NON-INJECTABLE WASTES	INJECTABLE WASTES
Oil Based Cuttings	Washout Water (Non-Injectable)	Washout Water (Injectable)
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	Completion Fluid/Flow back (Injectable)
Water Based Cuttings	Produced Water (Non-Injectable)	Produced Water (Injectable)
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	Gathering Line Water/Waste (Injectable)
Tank Bottoms	UNIT-SPECIFIC USE ONLY	UNIT-SPECIFIC USE ONLY
E&P Contaminated Soil	Truck Washout (exempt waste)	Truck Washout (exempt waste)
Gas Plant Waste		

WASTE GENERATION PROCESS:

☐ DRILLING☐ COMPLETION☐ PRODUCTION☐ GATHERING LINES**NON-EXEMPT E&P Waste/Service Identification and Amount**

All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TEHL), ignitability, corrosivity, and reactivity.

Non-Exempt Other

*please select from Non-Exempt Waste List on back

QUANTITY

B - BARRELS

L - LIQUID

Y - YARDS

E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

☐ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD:

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

PREPARED BY (PRINT NAME)

DATE

SIGNATURE

TRANSPORTER

Transporter's

Name

Address

Phone No.

Driver's Name

Print Name

Phone No.

Truck No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

IN:

OUT:

DISPOSAL FACILITY**RECEIVING AREA**

Name/No.

Site Name/

Permit No.

Address

Halfway Facility / NM1-006

Phone No.

575-393-1079

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading > 50 micro roentgens? (circle one)

YES

NO

PASS THE PAINT FILTER TEST? (Circle One)

YES

NO

TANK BOTTOMS

Feet

Inches

1st Gauge

2nd Gauge

Received

BS&W/BBLs Received

Free Water

Total Received

BS&W (%)

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TIME

SIGNATURE

C-138

White - R360 ORIGINAL

Yellow - TRANSPORTER COPY

Pink - GENERATOR SITE COPY

Gold - RETURN TO GENERATOR

Version 1



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

Company Man Contact Information

Name

Phone No.

GENERATOR

NO. 588835

Operator No.

Operator's Name

Address

City, State, Zip

Phone No.

Permit/BRC No.

Lease/Well

Name & No.

County

API No.

Rig Name & No.

AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (please volume next to waste type in barrels or cubic yards)

OIL BASED MUDS	NON-EXEMPT E&P WASTE	INJECTABLE WASTES
Oil Based Cuttings	Washout Water (Non-Injectable)	Washout Water (Injectable)
Water Based Muds	Completion Fluid/Flow Loss (Non-Injectable)	Completion Fluid/Flow Back (Injectable)
Water Based Cuttings	Produced Water (Non-Injectable)	Produced Water (Injectable)
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	Gathering Line Water/Waste (Injectable)
Tank Bottoms	INTERNAL USE ONLY	OTHER EXEMPT WASTE TYPES AND SUBSTITUTIONS (SEE BACK)
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCL), ignitability, corrosivity and reactivity.

Non-Exempt Other

*please select from Non-Exempt Waste List on back

QUANTITY

B - BARRELS

L - LIQUID

Y - YARDS

E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

☐ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD:

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

PRINTED AUTHORIZED PERSON NAME

DATE

SIGNATURE

TRANSPORTER

Transporter's

Name

Address

Phone No.

Driver's Name

Print Name

Phone No.

Truck No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: OUT:

Name/No.

Site Name/

Permit No.

Address

Phone No.

575-393-1079

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading > 50 micro roentgens? (circle one)

YES

NO

PASS THE PAINT FILTER TEST? (Circle One)

YES

NO

TANK BOTTOMS

1st Gauge
2nd Gauge
Received

Feet

Inches

BS&W/BBLS Received

Free Water

Total Received

BS&W (%)

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

C-139

White - R360 ORIGINAL

Yellow - TRANSPORTER COPY

Pink - GENERATOR SITE COPY

Gold - RETURN TO GENERATOR

Version 1



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

Company Man Contact Information

Name Ric TrujilloPhone No. 505-215-3932**GENERATOR**NO. **588827**

Operator No.

Operator's Name Navo oil + gasAddress 1001 W. Williams St. VJCity, State, Zip Del Mar, CA 92016Phone No. 65-785-9391

Permit/RRC No.

Lease/Well

Name & No. Perm Subdiv 1ed Com 0015 2-44County San DiegoAPI No. 30 015 16035

Rig Name & No.

AFE/PO No.

EXEMPT EOR Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

OIL BASED MUDS	NON-INJECTABLE WATERS	INJECTABLE WATERS
Oil Based Cuttings	Washout Water (Non-Injectable)	Washout Water (Injectable)
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	Completion Fluid/Flow back (Injectable)
Water Based Cuttings	Produced Water (Non-Injectable)	Produced Water (Injectable)
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	Gathering Line Water/Waste (Injectable)
Tank Bottoms	OTHER EXEMPT WASTES (type and quantity below)	
E&P Contaminated Soil	INTERNAL USE ONLY	
Gas Plant Waste	Truck Washout (exempt waste)	

WASTE GENERATION PROCESS:

☐ DRILLING☐ COMPLETION☐ PRODUCTION☐ GATHERING LINES**NON-EXEMPT EOR Waste/Service Identification and Amount**

All non-exempt EOR waste must be analyzed and be below the threshold limits for toxicity, TCLP, ignitability, corrosivity and reactivity.

Non-Exempt Other

*please select from Non-Exempt Waste List on back

QUANTITY

B - BARRELS

L - LIQUID

Y - YARDS

E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1983 regulatory determination, the above described waste load is (Check the appropriate classification)

☐ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD:

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENT'S NAME

DATE

SIGNATURE

TRANSPORTER

Transporter's

Name ADJIAAddress 1341-451Phone No. 760-803-1067

Driver's Name

Print Name

Phone No.

Truck No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

IN:

OUT:

DISPOSAL FACILITY**RECEIVING AREA**Name/No. CA

Site Name/

Permit No. Halfway Facility / NM1-006Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220Phone No. 575-393-1079

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading > 50 micro roentgens? (circle one)

YES

NO

PASS THE PAINT FILTER TEST? (Circle One)

YES

NO

TANK BOTTOMS

1st Gauge

2nd Gauge

Received

Feet

Inches

BS&W/BBLS Received

BS&W (%)

Free Water

Total Received

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TOLL

SIGNATURE

C-138

White - R360 ORIGINAL

Yellow - TRANSPORTER COPY

Pink - GENERATOR SITE COPY

Gold - RETURN TO GENERATOR

Version 1



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

Company Man Contact Information

Name

Phone No.

GENERATOR

NO. 588830

Operator No.

Operators Name

Address

City, State, Zip

Phone No.

Permit/RRC No.

Lease/Well

Name & No.

County

API No.

Rig Name & No.

AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	INJECTABLE WATERS
Oil Based Cuttings	Washout Water (Non-Injectable)	Washout Water (Injectable)
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	Completion Fluid/Flow back (Injectable)
Water Based Cuttings	Produced Water (Non-Injectable)	Produced Water (Injectable)
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	Gathering Line Water/Waste (Injectable)
Tank Bottoms	INTERNAL USE ONLY	OTHER EXEMPT WASTE (type and location of waste)
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS:

☐ DRILLING☐ COMPLETION☐ PRODUCTION☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignitability, corrosivity and reactivity.

Non-Exempt Other

*please select from 'Non-Exempt Waste List' on back

QUANTITY

B - BARRELS

L - LIQUID

Y - YARDS

E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED SIGNATURE

DATE

SIGNATURE

TRANSPORTER

Transporter's

Name

Address

Phone No.

Driver's Name

Print Name

Phone No.

Truck No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: OUT:

Name/No.

Site Name/

Permit No.

Address

Halfway Facility / NM1-006

Phone No.

575-393-1079

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading > 50 micro roentgens? (circle one)

YES

NO

PASS THE PAINT FILTER TEST? (Circle One)

YES

NO

TANK BOTTOMS

Feet

Inches

1st Gauge

2nd Gauge

Received

BS&W/BBLS Received

Free Water

Total Received

BS&W (%)

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

Company Man Contact Information

Name _____

Phone No. _____

GENERATORNO. **588833**

Operator No. _____

Operator's Name _____

Address _____

City, State, Zip _____

Phone No. _____

Permit/RRC No. _____

Lease/Well _____

Name & No. _____

County _____

API No. _____

Rig Name & No. _____

AFF/PO No. _____

EXEMPT OILFIELD Waste Service Identification and Amount (replace with the actual waste type in barrels or cubic yards)

OIL BASED MUDS	NON-INJECTABLE WASTES	INJECTABLE WASTES
Oil Based Cuttings	Washout Water (Non-Injectable)	Washout Water (Injectable)
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	Completion Fluid/Flow back (Injectable)
Water Based Cuttings	Produced Water (Non-Injectable)	Produced Water (Injectable)
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	Gathering Line Water/Waste (Injectable)
Tank Bottoms	WATER WASTE ONLY	OTHER EXEMPT WASTES (must be generated on site by the Generator)
ERP Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS:

☐ DRILLING☐ COMPLETION☐ PRODUCTION☐ GATHERING LINES

NOT EXEMPT ERP Waste Service Identification and Amount

Non-exempt ERP waste must be analyzed and be below the threshold limits for toxicity (TCAP), ignitability, corrosivity and reactivity.

Non-Exempt Other _____

*please select from Non-Exempt Waste List on back

QUANTITY

B - BARRELS

L - LIQUID

Y - YARDS

E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1983 regulatory determination, the above described waste load is (Check the appropriate classification)

☐ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD:

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENT'S NAME

DATE

SIGNATURE

TRANSPORTER

Transporter's

Name

Address

Phone No.

Driver's Name

Print Name

Phone No.

Truck No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

IN:

OUT:

DISPOSAL FACILITY**RECEIVING AREA**

Name/No.

Site Name/

Permit No.

Address

Halfway Facility / NM1-006

6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

Phone No.

575-393-1079

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading > 50 micro roentgens? (circle one)

YES

NO

PASS THE PAINT FILTER TEST? (Circle One)

YES

NO

TANK BOTTOMS

1st Gauge

2nd Gauge

Received

Feet

Inches

BS&W/BBLs Received

Free Water

Total Received

BS&W (%)

I hereby certify that the above load material has been (circle one)

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

C-138

White - R360 ORIGINAL

Yellow - TRANSPORTER COPY

Pink - GENERATOR SITE COPY

Gold - RETURN TO GENERATOR

Version 1



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST (PLEASE PRINT)

Company Man Contact Information

Name _____

Phone No. _____

GENERATORNO. **588832**

Operator No. _____

Permit/RRC No. _____

Operator's Name _____

Lease/Well _____

Address _____

Name & No. _____

County _____

City, State, Zip _____

API No. _____

Phone No. _____

Rig Name & No. _____

AFE/PO No. _____

EXEMPT C&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	Non-Injectable Waters	Injectable Waters
Oil Based Cuttings	Washout Water (Non-Injectable)	Washout Water (Injectable)
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	Completion Fluid/Flow back (Injectable)
Water Based Cuttings	Produced Water (Non-Injectable)	Produced Water (Injectable)
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	Gathering Line Water/Waste (Injectable)
Tank Bottoms	INTERNAL USE ONLY	OTHER EXEMPT WASTES (include and describe in the space below)
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES**NON-EXEMPT C&P Waste/Service Identification and Amount**

All non-exempt C&P waste must be properly and will be below the lines: oil for oil, gas for gas, etc. (TCEP), ignitability, corrosivity and reactivity.

Non-Exempt Other _____ please select from **Non-Exempt Waste List** on back

QUANTITY B - BARRELS L - LIQUID Y - YARDS E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

- ☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

☐ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

SHIPMENT DATE

DATE

SIGNATURE

TRANSPORTER

Transporter's Name _____

Driver's Name _____

Address _____

Print Name _____

Phone No. _____

Phone No. _____

Truck No. _____

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP**DISPOSAL FACILITY****RECEIVING AREA**

IN: _____ OUT: _____

Name/No. _____

Site Name/ _____

Phone No. 575-393-1079

Permit No. Halfway Facility / NM1-006

Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

NORM READINGS TAKEN? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (circle one) YES NO

PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLs Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? _____

NAME (PRINT)

DATE

TITLE

SIGNATURE

C-138

White - R360 ORIGINAL

Yellow - TRANSPORTER COPY

Pink - GENERATOR SITE COPY

Gold - RETURN TO GENERATOR

Version 1



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

Company Man Contact Information

Name

Phone No.

GENERATOR

NO. 588835

Operator No.

Operator's Name

Address

City, State, Zip

Phone No.

Permit/RRC No.

Lease/Well

Name & No.

County

API No.

Sig Name & No.

AFE/PO No.

EXEMPT EPA Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

OIL BASED MUDS	NON-INJECTABLE WASTES	INJECTABLE WASTES
Oil Based Cuttings	Washout Water (Non-Injectable)	Washout Water (Injectable)
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	Completion Fluid/Flow back (Injectable)
Water Based Cuttings	Produced Water (Non-Injectable)	Produced Water (Injectable)
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	Gathering Line Water/Waste (Injectable)
Tank Bottoms	OTHER EXEMPT WASTES (Type and mark non-exempt of this waste)	
E&P Contaminated Soil	TRUCK WASHOUT (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT EPA Waste/Service Identification and Amount

All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignitability, corrosivity and reactivity.

Non-Exempt Other

*please select from Non-Exempt Waste List on back

QUANTITY

B - BARRELS

L - LIQUID

Y - YARDS

E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

☐ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD:

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

PROPERTY AND/OR FIELD IDENTIFYING NAME

DATE

SIGNATURE

TRANSPORTER

Transporter's

Name

Address

Phone No.

Driver's Name

Print Name

Phone No.

Truck No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: OUT:

Name/No.

Site Name/

Permit No.

Address

Phone No.

NORM READINGS TAKEN? (Circle One)

YES

NO

IF YES, was reading > 50 micro roentgens? (circle one)

YES

NO

PASS THE PAINT FILTER TEST? (Circle One)

YES

NO

TANK BOTTOMS

1st Gauge

2nd Gauge

Received

Feet

Inches

BS&W/BBLs Received

BS&W (%)

Free Water

Total Received

I hereby certify that the above load material has been (circle one)

ACCEPTED

DENIED

if denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

C-138

White - R360 ORIGINAL

Yellow - TRANSPORTER COPY

Pink - GENERATOR SITE COPY

Gold - RETURN TO GENERATOR

Version 1



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

Company Man Contact Information

Name Pete [unclear]Phone No. 505 215 9400**GENERATOR**NO. **588827**

Operator No.

Operator's Name

Address

City, State, Zip

Phone No.

Permit/RRC No.

Lease/Well

Name & No.

County

API No.

Rig Name & No.

AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Mud	Oil Based Cuttings	Water Based Mud	Water Based Cuttings	Produced Formation Solids	Tank Bottoms	E&P Contaminated Soil	Gas Plant Waste	NON-EXEMPT WASTE	WASHOUT WATER	INJECTABLE WASTE
								Washout Water (Non-Injectable)	Completion Fluid/Flow back (Non-Injectable)	Produced Water (Injectable)
								Completion Fluid/Flow back (Non-Injectable)	Produced Water (Non-Injectable)	Gathering Line Water/Waste (Injectable)
								Gathering Line Water/Waste (Non-Injectable)	OTHER EXEMPT WASTES (type and generation code as on file waste)	
								Truck Washout (exempt waste)		

WASTE GENERATION PROCESS:

☐ DRILLING☐ COMPLETION☐ PRODUCTION☐ GATHERING LINES**NON-EXEMPT E&P Waste/Service Identification and Amount**

All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TECL), ignitability, corrosivity and reactivity.

Non-Exempt Other

*please select from Non-Exempt Waste List on back

QUANTITY

B - BARRELS

L - LIQUID

Y - YARDS

E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1983 regulatory determination, the above described waste load is (Check the appropriate classification)

☐ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD:

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED REPRESENTATIVE

DATE

SIGNATURE

TRANSPORTER

Transporter's

Name

Address

Phone No.

Driver's Name

Print Name

Phone No.

Truck No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

IN:

OUT:

DISPOSAL FACILITY**RECEIVING AREA**

Name/No.

Site Name/

Permit No.

Address

Halfway Facility / NM1-006

Phone No.

575-393-1079

6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading > 50 micro roentgens? (circle one)

YES

NO

PASS THE PAINT FILTER TEST? (Circle One)

YES

NO

TANK BOTTOMS

Feet

Inches

1st Gauge

2nd Gauge

Received

BS&W/BBLS Received

Free Water

Total Received

BS&W (%)

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

C-138

White - R360 ORIGINAL

Yellow - TRANSPORTER COPY

Pink - GENERATOR SITE COPY

Gold - RETURN TO GENERATOR

Version 1



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

Company Man Contact Information

Name Pete TrullPhone No. 505-236-5000**GENERATOR**NO. **588826**

Operator No.

Operator's Name Novo oil & gasAddress 1001 W. Wilshire BlvdCity, State, Zip Albuquerque, NM 87106Phone No. 505-236-4391

Permit/RRC No.

Lease/Well

Name & No. Quinn S. Liden / Quinn S. Liden 25114County TRAAPI No. 30-015-16085

Rig Name & No.

AFE/PO No. 3-1A**EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)**

Oil Based Muds	NON-INJECTABLE WASTES	INJECTABLE WASTES
Oil Based Cuttings	Washout Water (Non-Injectable)	Washout Water (Injectable)
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	Completion Fluid/Flow back (Injectable)
Water Based Cuttings	Produced Water (Non-Injectable)	Produced Water (Injectable)
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	Gathering Line Water/Waste (Injectable)
Tank Bottoms	INTERNAL USE ONLY	OTHER EXEMPT WASTE (Type and volume as indicated on the manifest)
E&P Contaminated Soil	Truck Washout (Exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES**NON-EXEMPT E&P Waste/Service Identification and Amount**

All non-exempt E&P waste must be analyzed and be below the threshold limits for Toxicity (TCLE), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other

*please select from Non-Exempt Waste List on back

QUANTITY

B - BARRELS

L - LIQUID

Y - YARDS

E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

- ☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

- ☐ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED REPRESENTATIVE

DATE

SIGNATURE

TRANSPORTER

Transporter's

Name NOVA OIL & GASAddress 1001 W. Wilshire BlvdPhone No. 505-236-4391Driver's Name RAFAELPrint Name 180-205-1301Phone No. 71

Truck No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP**DISPOSAL FACILITY****RECEIVING AREA**IN: OUT:Name/No. 2611

Site Name/

Permit No. Halfway Facility / NM1-006Phone No. 575-393-1079Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

NORM READINGS TAKEN? (Circle One)

YES

NO

IF YES, was reading > 50 micro roentgens? (circle one)

YES

NO

PASS THE PAINT FILTER TEST? (Circle One)

YES

NO

TANK BOTTOMS

1st Gauge

2nd Gauge

Received

Feet

Inches

BS&W/BBLS Received

BS&W (%)

Free Water

Total Received

I hereby certify that the above load material has been (circle one) ☐ ACCEPTED ☐ DENIED If denied, why?

NAME (PRINT)

DATE

TIME

SIGNATURE

C-138

White - R360 ORIGINAL

Yellow - TRANSPORTER COPY

Pink - GENERATOR SITE COPY

Gold - RETURN TO GENERATOR

Version 1



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

Company Man Contact Information

Name

Phone No.

GENERATOR

NO. 588830

Operator No.

Operator's Name

Address

City, State, Zip

Phone No.

Permit/RRC No.

Lease/Well

Name & No.

County

API No.

Rig Name & No.

AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (Place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-EXEMPT E&P WASTES	INJECTABLE WASTES
Oil Based Cuttings	Washout Water (Non-Injectable)	Washout Water (Injectable)
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	Completion Fluid/Flow back (Injectable)
Water Based Cuttings	Produced Water (Non-Injectable)	Produced Water (Injectable)
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	Gathering Line Water/Waste (Injectable)
Tank Bottoms	INTERNAL USE ONLY	OTHER EXEMPT WASTES (Lease and generation products, etc.)
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS:

☐ DRILLING☐ COMPLETION☐ PRODUCTION☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCDF), ignitability, Corrosivity and Reactivity.

Non-Exempt Other:

*please select from Non-Exempt Waste List on back

QUANTITY

B - BARRELS

L - LIQUID

Y - YARDS

E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENT'S NAME

DATE

SIGNATURE

TRANSPORTER

Transporter's

Name

Address

Phone No.

Driver's Name

Print Name

Phone No.

Truck No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP**DISPOSAL FACILITY****RECEIVING AREA**

IN: OUT:

Name/No.

Site Name/

Permit No.

Address

Halfway Facility / NM1-006

Phone No.

575-393-1079

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading > 50 micro roentgens? (circle one)

YES

NO

PASS THE PAINT FILTER TEST? (Circle One)

YES

NO

TANK BOTTOMS

1st Gauge

2nd Gauge

Received

Feet

Inches

BS&W/BBLs Received

Free Water

Total Received

BS&W (%)

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

C-138

White - R360 ORIGINAL

Yellow - TRANSPORTER COPY

Pink - GENERATOR SITE COPY

Gold - RETURN TO GENERATOR

Version 1



APPENDIX E
Laboratory Analytical Data Reports



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

January 11, 2023

BRYAN HANEY

ALTAMIRA - US

14229 PUNTA BONAIRE DR.

CORPUS CHRISTI, TX 78418

RE: NOVO PAD A RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/10/23 16:28.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: NOVO PAD A RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING NM

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PA - 1 (1-1.5) (H230124-01)

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	01/11/2023	ND	1.97	98.5	2.00	11.8	
Toluene*	0.076	0.050	01/11/2023	ND	2.02	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	10.5	
Total Xylenes*	1.58	0.150	01/11/2023	ND	6.17	103	6.00	10.1	
Total BTEX	1.65	0.300	01/11/2023	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	224	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	132	10.0	01/11/2023	ND	193	96.6	200	6.62	
DRO >C10-C28*	1290	10.0	01/11/2023	ND	185	92.6	200	7.76	
EXT DRO >C28-C36	138	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: NOVO PAD A RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING NM

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PA - 2 (1-1.5) (H230124-02)

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	01/11/2023	ND	1.97	98.5	2.00	11.8		
Toluene*	<0.050	0.050	01/11/2023	ND	2.02	101	2.00	10.6		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	10.5		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.17	103	6.00	10.1		
Total BTEx	<0.300	0.300	01/11/2023	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	304	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	18.6	10.0	01/11/2023	ND	193	96.6	200	6.62	
DRO >C10-C28*	1170	10.0	01/11/2023	ND	185	92.6	200	7.76	
EXT DRO >C28-C36	135	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: NOVO PAD A RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING NM

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PA - 3 (1-1.5) (H230124-03)

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	01/11/2023	ND	1.97	98.5	2.00	11.8		
Toluene*	<0.050	0.050	01/11/2023	ND	2.02	101	2.00	10.6		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	10.5		
Total Xylenes*	0.594	0.150	01/11/2023	ND	6.17	103	6.00	10.1		
Total BTEX	0.594	0.300	01/11/2023	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	432	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	65.8	10.0	01/11/2023	ND	193	96.6	200	6.62	
DRO >C10-C28*	1750	10.0	01/11/2023	ND	185	92.6	200	7.76	
EXT DRO >C28-C36	205	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.0 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: NOVO PAD A RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING NM

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PA - 4 (1-1.5) (H230124-04)

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	01/11/2023	ND	1.97	98.5	2.00	11.8	
Toluene*	<0.050	0.050	01/11/2023	ND	2.02	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	10.5	
Total Xylenes*	0.464	0.150	01/11/2023	ND	6.17	103	6.00	10.1	
Total BTEX	0.464	0.300	01/11/2023	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	1480	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	74.2	10.0	01/11/2023	ND	193	96.6	200	6.62	
DRO >C10-C28*	1370	10.0	01/11/2023	ND	185	92.6	200	7.76	
EXT DRO >C28-C36	147	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 86.8 % 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: 01/10/2023
 Reported: 01/11/2023
 Project Name: NOVO PAD A RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING NM

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PA - 5 (1-1.5) (H230124-05)

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	01/11/2023	ND	1.97	98.5	2.00	11.8	
Toluene*	0.065	0.050	01/11/2023	ND	2.02	101	2.00	10.6	
Ethylbenzene*	0.069	0.050	01/11/2023	ND	2.03	102	2.00	10.5	
Total Xylenes*	2.43	0.150	01/11/2023	ND	6.17	103	6.00	10.1	
Total BTEX	2.56	0.300	01/11/2023	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	832	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	113	10.0	01/11/2023	ND	172	85.8	200	7.56	
DRO >C10-C28*	1640	10.0	01/11/2023	ND	172	85.9	200	10.8	
EXT DRO >C28-C36	113	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 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: 01/10/2023
 Reported: 01/11/2023
 Project Name: NOVO PAD A RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING NM

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PA - 6 (1-1.5) (H230124-06)

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	01/11/2023	ND	1.97	98.5	2.00	11.8	
Toluene*	0.123	0.050	01/11/2023	ND	2.02	101	2.00	10.6	
Ethylbenzene*	0.082	0.050	01/11/2023	ND	2.03	102	2.00	10.5	
Total Xylenes*	2.32	0.150	01/11/2023	ND	6.17	103	6.00	10.1	
Total BTEx	2.53	0.300	01/11/2023	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	464	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	112	10.0	01/11/2023	ND	172	85.8	200	7.56	
DRO >C10-C28*	1440	10.0	01/11/2023	ND	172	85.9	200	10.8	
EXT DRO >C28-C36	121	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 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: 01/10/2023
 Reported: 01/11/2023
 Project Name: NOVO PAD A RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING NM

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PA - 7 (1-1.5) (H230124-07)

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	01/11/2023	ND	1.97	98.5	2.00	11.8	
Toluene*	0.063	0.050	01/11/2023	ND	2.02	101	2.00	10.6	
Ethylbenzene*	0.058	0.050	01/11/2023	ND	2.03	102	2.00	10.5	
Total Xylenes*	2.35	0.150	01/11/2023	ND	6.17	103	6.00	10.1	
Total BTEX	2.47	0.300	01/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	183	10.0	01/11/2023	ND	172	85.8	200	7.56	
DRO >C10-C28*	1530	10.0	01/11/2023	ND	172	85.9	200	10.8	
EXT DRO >C28-C36	67.2	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 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: 01/10/2023
 Reported: 01/11/2023
 Project Name: NOVO PAD A RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING NM

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PA - 8 (1-1.5) (H230124-08)

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	01/11/2023	ND	1.97	98.5	2.00	11.8	
Toluene*	0.320	0.050	01/11/2023	ND	2.02	101	2.00	10.6	
Ethylbenzene*	0.269	0.050	01/11/2023	ND	2.03	102	2.00	10.5	
Total Xylenes*	6.63	0.150	01/11/2023	ND	6.17	103	6.00	10.1	
Total BTEX	7.22	0.300	01/11/2023	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	336	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	185	10.0	01/11/2023	ND	172	85.8	200	7.56	
DRO >C10-C28*	1220	10.0	01/11/2023	ND	172	85.9	200	10.8	
EXT DRO >C28-C36	66.8	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 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: 01/10/2023
 Reported: 01/11/2023
 Project Name: NOVO PAD A RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING NM

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PA - 9 (1-1.5) (H230124-09)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2023	ND	1.95	97.7	2.00	3.28	
Toluene*	2.50	0.050	01/11/2023	ND	2.15	107	2.00	4.11	
Ethylbenzene*	0.908	0.050	01/11/2023	ND	2.11	105	2.00	3.98	
Total Xylenes*	18.6	0.150	01/11/2023	ND	6.52	109	6.00	3.86	
Total BTEX	22.1	0.300	01/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 313 % 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	576	16.0	01/11/2023	ND	432	108	400	3.64	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	421	10.0	01/11/2023	ND	172	85.8	200	7.56	
DRO >C10-C28*	2480	10.0	01/11/2023	ND	172	85.9	200	10.8	
EXT DRO >C28-C36	192	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 143 % 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: 01/10/2023
 Reported: 01/11/2023
 Project Name: NOVO PAD A RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING NM

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PA - 10 (1-1.5) (H230124-10)

BTX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2023	ND	1.95	97.7	2.00	3.28	
Toluene*	0.050	0.050	01/11/2023	ND	2.15	107	2.00	4.11	
Ethylbenzene*	0.058	0.050	01/11/2023	ND	2.11	105	2.00	3.98	
Total Xylenes*	0.752	0.150	01/11/2023	ND	6.52	109	6.00	3.86	
Total BTX	0.859	0.300	01/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 155 % 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	784	16.0	01/11/2023	ND	432	108	400	3.64	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	55.4	10.0	01/11/2023	ND	172	85.8	200	7.56	
DRO >C10-C28*	1590	10.0	01/11/2023	ND	172	85.9	200	10.8	
EXT DRO >C28-C36	118	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.3 % 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: 01/10/2023
 Reported: 01/11/2023
 Project Name: NOVO PAD A RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING NM

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PA - 11 (1-1.5) (H230124-11)

BTX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2023	ND	1.95	97.7	2.00	3.28	
Toluene*	<0.050	0.050	01/11/2023	ND	2.15	107	2.00	4.11	
Ethylbenzene*	0.052	0.050	01/11/2023	ND	2.11	105	2.00	3.98	
Total Xylenes*	0.816	0.150	01/11/2023	ND	6.52	109	6.00	3.86	
Total BTX	0.868	0.300	01/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 161 % 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	896	16.0	01/11/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	66.9	10.0	01/11/2023	ND	172	85.8	200	7.56	
DRO >C10-C28*	1150	10.0	01/11/2023	ND	172	85.9	200	10.8	
EXT DRO >C28-C36	86.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 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: 01/10/2023
 Reported: 01/11/2023
 Project Name: NOVO PAD A RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING NM

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PA - 12 (1-1.5) (H230124-12)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2023	ND	1.95	97.7	2.00	3.28	
Toluene*	<0.050	0.050	01/11/2023	ND	2.15	107	2.00	4.11	
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.11	105	2.00	3.98	
Total Xylenes*	0.432	0.150	01/11/2023	ND	6.52	109	6.00	3.86	
Total BTEX	0.432	0.300	01/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 143 % 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	1630	16.0	01/11/2023	ND	416	104	400	3.77	QM-07

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	31.1	10.0	01/11/2023	ND	172	85.8	200	7.56	
DRO >C10-C28*	1560	10.0	01/11/2023	ND	172	85.9	200	10.8	
EXT DRO >C28-C36	129	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 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: 01/10/2023
 Reported: 01/11/2023
 Project Name: NOVO PAD A RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING NM

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PA - 13 (1-1.5) (H230124-13)

BTEX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2023	ND	1.95	97.7	2.00	3.28	
Toluene*	<0.050	0.050	01/11/2023	ND	2.15	107	2.00	4.11	
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.11	105	2.00	3.98	
Total Xylenes*	0.460	0.150	01/11/2023	ND	6.52	109	6.00	3.86	
Total BTEX	0.460	0.300	01/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 164 % 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	784	16.0	01/11/2023	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*	53.2	10.0	01/11/2023	ND	172	85.8	200	7.56	
DRO >C10-C28*	1320	10.0	01/11/2023	ND	172	85.9	200	10.8	
EXT DRO >C28-C36	82.1	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 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: 01/10/2023
 Reported: 01/11/2023
 Project Name: NOVO PAD A RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING NM

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PA - 14 (1-1.5) (H230124-14)

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	01/11/2023	ND	1.95	97.7	2.00	3.28	
Toluene*	<0.050	0.050	01/11/2023	ND	2.15	107	2.00	4.11	
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.11	105	2.00	3.98	
Total Xylenes*	0.178	0.150	01/11/2023	ND	6.52	109	6.00	3.86	
Total BTEX	<0.300	0.300	01/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 131 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	01/11/2023	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*	23.1	10.0	01/11/2023	ND	181	90.3	200	8.37	
DRO >C10-C28*	540	10.0	01/11/2023	ND	175	87.7	200	9.98	
EXT DRO >C28-C36	39.8	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 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: 01/10/2023
 Reported: 01/11/2023
 Project Name: NOVO PAD A RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING NM

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PA - 15 (1-1.5) (H230124-15)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2023	ND	1.95	97.7	2.00	3.28	
Toluene*	0.081	0.050	01/11/2023	ND	2.15	107	2.00	4.11	
Ethylbenzene*	0.134	0.050	01/11/2023	ND	2.11	105	2.00	3.98	
Total Xylenes*	2.38	0.150	01/11/2023	ND	6.52	109	6.00	3.86	
Total BTEx	2.60	0.300	01/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 191 % 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	01/11/2023	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*	126	10.0	01/11/2023	ND	181	90.3	200	8.37	
DRO >C10-C28*	1020	10.0	01/11/2023	ND	175	87.7	200	9.98	
EXT DRO >C28-C36	74.9	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 86.5 % 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: 01/10/2023
 Reported: 01/11/2023
 Project Name: NOVO PAD A RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING NM

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PA - 16 (1-1.5) (H230124-16)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2023	ND	1.95	97.7	2.00	3.28	
Toluene*	0.449	0.050	01/11/2023	ND	2.15	107	2.00	4.11	
Ethylbenzene*	0.322	0.050	01/11/2023	ND	2.11	105	2.00	3.98	
Total Xylenes*	5.77	0.150	01/11/2023	ND	6.52	109	6.00	3.86	
Total BTEX	6.54	0.300	01/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 212 % 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	1200	16.0	01/11/2023	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*	187	10.0	01/11/2023	ND	181	90.3	200	8.37	
DRO >C10-C28*	1390	10.0	01/11/2023	ND	175	87.7	200	9.98	
EXT DRO >C28-C36	115	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 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: 01/10/2023
 Reported: 01/11/2023
 Project Name: NOVO PAD A RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING NM

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PA - 17 (1-1.5) (H230124-17)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	01/11/2023	ND	1.95	97.7	2.00	3.28	
Toluene*	7.94	0.200	01/11/2023	ND	2.15	107	2.00	4.11	
Ethylbenzene*	3.72	0.200	01/11/2023	ND	2.11	105	2.00	3.98	
Total Xylenes*	62.3	0.600	01/11/2023	ND	6.52	109	6.00	3.86	
Total BTEX	73.9	1.20	01/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 247 % 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	5040	16.0	01/11/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	981	10.0	01/11/2023	ND	181	90.3	200	8.37	
DRO >C10-C28*	6260	10.0	01/11/2023	ND	175	87.7	200	9.98	
EXT DRO >C28-C36	509	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 281 % 48.2-134

Surrogate: 1-Chlorooctadecane 252 % 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: 01/10/2023
 Reported: 01/11/2023
 Project Name: NOVO PAD A RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING NM

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PA - 18 (1-1.5) (H230124-18)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2023	ND	1.95	97.7	2.00	3.28	
Toluene*	2.57	0.050	01/11/2023	ND	2.15	107	2.00	4.11	
Ethylbenzene*	1.15	0.050	01/11/2023	ND	2.11	105	2.00	3.98	
Total Xylenes*	21.1	0.150	01/11/2023	ND	6.52	109	6.00	3.86	
Total BTEX	24.9	0.300	01/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 328 % 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	3200	16.0	01/11/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	841	10.0	01/11/2023	ND	181	90.3	200	8.37	
DRO >C10-C28*	6230	10.0	01/11/2023	ND	175	87.7	200	9.98	
EXT DRO >C28-C36	695	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 274 % 48.2-134

Surrogate: 1-Chlorooctadecane 266 % 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: 01/10/2023
 Reported: 01/11/2023
 Project Name: NOVO PAD A RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING NM

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PA - 19 (1-1.5) (H230124-19)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	01/11/2023	ND	1.95	97.7	2.00	3.28	
Toluene*	7.19	0.200	01/11/2023	ND	2.15	107	2.00	4.11	
Ethylbenzene*	3.31	0.200	01/11/2023	ND	2.11	105	2.00	3.98	
Total Xylenes*	67.2	0.600	01/11/2023	ND	6.52	109	6.00	3.86	
Total BTEX	77.7	1.20	01/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 255 % 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	816	16.0	01/11/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1300	10.0	01/11/2023	ND	181	90.3	200	8.37	
DRO >C10-C28*	5710	10.0	01/11/2023	ND	175	87.7	200	9.98	
EXT DRO >C28-C36	542	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 324 % 48.2-134

Surrogate: 1-Chlorooctadecane 241 % 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: 01/10/2023
 Reported: 01/11/2023
 Project Name: NOVO PAD A RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING NM

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PA - 20 (1-1.5) (H230124-20)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	01/11/2023	ND	1.95	97.7	2.00	3.28	
Toluene*	1.63	0.200	01/11/2023	ND	2.15	107	2.00	4.11	
Ethylbenzene*	1.36	0.200	01/11/2023	ND	2.11	105	2.00	3.98	
Total Xylenes*	30.6	0.600	01/11/2023	ND	6.52	109	6.00	3.86	
Total BTEX	33.6	1.20	01/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 243 % 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	1360	16.0	01/11/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	964	10.0	01/11/2023	ND	181	90.3	200	8.37	
DRO >C10-C28*	5250	10.0	01/11/2023	ND	175	87.7	200	9.98	
EXT DRO >C28-C36	483	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 341 % 48.2-134

Surrogate: 1-Chlorooctadecane 220 % 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: 01/10/2023
 Reported: 01/11/2023
 Project Name: NOVO PAD A RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING NM

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PA - 21 (1-1.5) (H230124-21)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	01/11/2023	ND	1.95	97.7	2.00	3.28	
Toluene*	8.06	0.500	01/11/2023	ND	2.15	107	2.00	4.11	
Ethylbenzene*	4.78	0.500	01/11/2023	ND	2.11	105	2.00	3.98	
Total Xylenes*	112	1.50	01/11/2023	ND	6.52	109	6.00	3.86	
Total BTEX	124	3.00	01/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 225 % 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	304	16.0	01/11/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2580	100	01/11/2023	ND	172	85.8	200	7.56	
DRO >C10-C28*	10700	100	01/11/2023	ND	172	85.9	200	10.8	
EXT DRO >C28-C36	409	100	01/11/2023	ND					

Surrogate: 1-Chlorooctane 507 % 48.2-134

Surrogate: 1-Chlorooctadecane 182 % 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: 01/10/2023
 Reported: 01/11/2023
 Project Name: NOVO PAD A RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING NM

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PA - 22 (1-1.5) (H230124-22)

BTX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2023	ND	1.95	97.7	2.00	3.28	
Toluene*	0.103	0.050	01/11/2023	ND	2.15	107	2.00	4.11	
Ethylbenzene*	0.086	0.050	01/11/2023	ND	2.11	105	2.00	3.98	
Total Xylenes*	1.66	0.150	01/11/2023	ND	6.52	109	6.00	3.86	
Total BTX	1.85	0.300	01/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 168 % 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	4240	16.0	01/11/2023	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*	145	10.0	01/11/2023	ND	172	85.8	200	7.56	
DRO >C10-C28*	2100	10.0	01/11/2023	ND	172	85.9	200	10.8	
EXT DRO >C28-C36	180	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 142 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

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

[illegible]



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Altamira						P.O. #: Direct Bill Novo						ANALYSIS REQUEST					
Project Manager: Bryan Haney						Company: Oil and Gas											
Address: 14229 Punta Bonaire																	
City: Corpus Christi						Attn:											
State: Texas						Zip: 78412											
Phone #: 361-658-3126						Fax #:											
Project #: NVONNM22051001						Project Owner: Bryan Haney											
Project Name: Novo Occidental release						State: Zip:											
Project Location: Loving New Mexico						Phone #:											
Sample Name: Orlando Gonzalez, Bryan Haney Mark Masio						Fax #:											
FOR LAB USE ONLY						PRESERV.						SAMPLING					
Lab I.D.						(G)RAB OR (C)OMP.											
Sample I.D.						# CONTAINERS											
						GROUNDWATER											
						WASTEWATER											
						SOIL											
						OIL											
						SLUDGE											
						OTHER :											
						ACID/BASE:											
						ICE / COOL											
						OTHER :											
						DATE						TIME					
H230124						PA-11 (-1-1.5)						X X X					
12						PA-12 (-1-1.5)						X X X					
13						PA-13 (-1-1.5)						X X X					
14						PA-14 (-1-1.5)						X X X					
15						PA-15 (-1-1.5)						X X X					
16						PA-16 (-1-1.5)						X X X					
17						PA-17 (-1-1.5)						X X X					
18						PA-18 (-1-1.5)						X X X					
19						PA-19 (-1-1.5)						X X X					
20						PA-20 (-1-1.5)						X X X					
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Relinquished By: [Signature]						Received By: [Signature]											
Date: 11/10/23						Time: 10:08											
Relinquished By: [Signature]						Received By: [Signature]											
Date: [Blank]						Time: [Blank]											
Delivered By: (Circle One)						Observed Temp. °C: 10.0						Corrected Temp. °C: -1.6					
Sampler - UPS - Bus - Other:						Sample Condition						Checked By: [Signature]					
						Cool Intact Yes No						Bacteria (only) Sample Condition Cool Intact Yes No					
						Thermometer ID #113						Standard Rush Add'l Phone #:					
						Correction Factor: -0.5°C						All Results are emailed. Please provide Email address:					
REMARKS: 24 hr TAT																	



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

January 24, 2023

BRYAN HANEY

ALTAMIRA - US

14229 PUNTA BONAIRE DR.

CORPUS CHRISTI, TX 78418

RE: RUNA SALADA A PAD RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/23/23 16:54.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/23/2023	Sampling Date:	01/23/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	RUNA SALADA A PAD RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NVONM2205/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: PA - 1 (2-2.5') (H230331-01)

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	01/23/2023	ND	1.98	98.9	2.00	1.44	
Toluene*	<0.050	0.050	01/23/2023	ND	2.15	107	2.00	1.18	
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.11	105	2.00	1.32	
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.48	108	6.00	2.11	
Total BTEX	<0.300	0.300	01/23/2023	ND					

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/24/2023	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	01/24/2023	ND	197	98.6	200	12.6	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	210	105	200	0.793	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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: 01/23/2023
 Reported: 01/24/2023
 Project Name: RUNA SALADA A PAD RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING, NM

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PA - 2 (2-2.5') (H230331-02)

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	01/23/2023	ND	1.98	98.9	2.00	1.44		
Toluene*	<0.050	0.050	01/23/2023	ND	2.15	107	2.00	1.18		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.11	105	2.00	1.32		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.48	108	6.00	2.11		
Total BTEx	<0.300	0.300	01/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	01/24/2023	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	01/24/2023	ND	197	98.6	200	12.6	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	210	105	200	0.793	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 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: 01/23/2023
 Reported: 01/24/2023
 Project Name: RUNA SALADA A PAD RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING, NM

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PA - 3 (2-2.5') (H230331-03)

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	01/23/2023	ND	1.98	98.9	2.00	1.44		
Toluene*	<0.050	0.050	01/23/2023	ND	2.15	107	2.00	1.18		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.11	105	2.00	1.32		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.48	108	6.00	2.11		
Total BTEx	<0.300	0.300	01/23/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	01/24/2023	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	01/24/2023	ND	197	98.6	200	12.6	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	210	105	200	0.793	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/23/2023	Sampling Date:	01/23/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	RUNA SALADA A PAD RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NVONM2205/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: PA - 4 (2-2.5') (H230331-04)

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	01/23/2023	ND	1.98	98.9	2.00	1.44		
Toluene*	<0.050	0.050	01/23/2023	ND	2.15	107	2.00	1.18		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.11	105	2.00	1.32		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.48	108	6.00	2.11		
Total BTEx	<0.300	0.300	01/23/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	01/24/2023	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	01/24/2023	ND	197	98.6	200	12.6	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	210	105	200	0.793	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 90.6 % 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: 01/23/2023
 Reported: 01/24/2023
 Project Name: RUNA SALADA A PAD RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING, NM

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PA - 5 (2-2.5') (H230331-05)

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	01/23/2023	ND	1.98	98.9	2.00	1.44		
Toluene*	<0.050	0.050	01/23/2023	ND	2.15	107	2.00	1.18		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.11	105	2.00	1.32		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.48	108	6.00	2.11		
Total BTEx	<0.300	0.300	01/23/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	01/24/2023	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	01/24/2023	ND	197	98.6	200	12.6	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	210	105	200	0.793	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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: 01/23/2023
 Reported: 01/24/2023
 Project Name: RUNA SALADA A PAD RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING, NM

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PA - 6 (2-2.5') (H230331-06)

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	01/23/2023	ND	1.98	98.9	2.00	1.44		
Toluene*	<0.050	0.050	01/23/2023	ND	2.15	107	2.00	1.18		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.11	105	2.00	1.32		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.48	108	6.00	2.11		
Total BTEx	<0.300	0.300	01/23/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	01/24/2023	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	01/24/2023	ND	197	98.6	200	12.6	
DRO >C10-C28*	43.7	10.0	01/24/2023	ND	210	105	200	0.793	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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:	01/23/2023	Sampling Date:	01/23/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	RUNA SALADA A PAD RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NVONM2205/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: PA - 7 (2-2.5') (H230331-07)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2023	ND	1.98	98.9	2.00	1.44		
Toluene*	<0.050	0.050	01/23/2023	ND	2.15	107	2.00	1.18		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.11	105	2.00	1.32		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.48	108	6.00	2.11		
Total BTX	<0.300	0.300	01/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	01/24/2023	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	01/24/2023	ND	197	98.6	200	12.6	
DRO >C10-C28*	33.7	10.0	01/24/2023	ND	210	105	200	0.793	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 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:	01/23/2023	Sampling Date:	01/23/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	RUNA SALADA A PAD RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NVONM2205/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: PA - 8 (2-2.5') (H230331-08)

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	01/23/2023	ND	1.98	98.9	2.00	1.44		
Toluene*	<0.050	0.050	01/23/2023	ND	2.15	107	2.00	1.18		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.11	105	2.00	1.32		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.48	108	6.00	2.11		
Total BTEX	<0.300	0.300	01/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/24/2023	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	01/24/2023	ND	197	98.6	200	12.6	
DRO >C10-C28*	29.4	10.0	01/24/2023	ND	210	105	200	0.793	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 72.2 % 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: 01/23/2023
 Reported: 01/24/2023
 Project Name: RUNA SALADA A PAD RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING, NM

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PA - 9 (2-2.5') (H230331-09)

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	01/23/2023	ND	1.98	98.9	2.00	1.44		
Toluene*	<0.050	0.050	01/23/2023	ND	2.15	107	2.00	1.18		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.11	105	2.00	1.32		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.48	108	6.00	2.11		
Total BTEx	<0.300	0.300	01/23/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/24/2023	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	01/24/2023	ND	197	98.6	200	12.6	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	210	105	200	0.793	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 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: 01/23/2023
 Reported: 01/24/2023
 Project Name: RUNA SALADA A PAD RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING, NM

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PA - 10 (2-2.5') (H230331-10)

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	01/23/2023	ND	1.98	98.9	2.00	1.44		
Toluene*	<0.050	0.050	01/23/2023	ND	2.15	107	2.00	1.18		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.11	105	2.00	1.32		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.48	108	6.00	2.11		
Total BTEX	<0.300	0.300	01/23/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	01/24/2023	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	01/24/2023	ND	197	98.6	200	12.6	
DRO >C10-C28*	21.1	10.0	01/24/2023	ND	210	105	200	0.793	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 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:	01/23/2023	Sampling Date:	01/23/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	RUNA SALADA A PAD RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NVONM2205/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: PA - 11 (2-2.5') (H230331-11)

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	01/23/2023	ND	1.98	98.9	2.00	1.44		
Toluene*	<0.050	0.050	01/23/2023	ND	2.15	107	2.00	1.18		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.11	105	2.00	1.32		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.48	108	6.00	2.11		
Total BTEx	<0.300	0.300	01/23/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	01/24/2023	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	01/24/2023	ND	197	98.6	200	12.6	
DRO >C10-C28*	163	10.0	01/24/2023	ND	210	105	200	0.793	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 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:	01/23/2023	Sampling Date:	01/23/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	RUNA SALADA A PAD RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NVONM2205/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: PA - 12 (2-2.5') (H230331-12)

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	01/23/2023	ND	1.98	98.9	2.00	1.44		
Toluene*	<0.050	0.050	01/23/2023	ND	2.15	107	2.00	1.18		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.11	105	2.00	1.32		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.48	108	6.00	2.11		
Total BTEX	<0.300	0.300	01/23/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	01/24/2023	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	01/24/2023	ND	197	98.6	200	12.6	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	210	105	200	0.793	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 93.4 % 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:	01/23/2023	Sampling Date:	01/23/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	RUNA SALADA A PAD RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NVONM2205/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: PA - 13 (2-2.5') (H230331-13)

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	01/23/2023	ND	1.98	98.9	2.00	1.44		
Toluene*	<0.050	0.050	01/23/2023	ND	2.15	107	2.00	1.18		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.11	105	2.00	1.32		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.48	108	6.00	2.11		
Total BTEX	<0.300	0.300	01/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 131 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	01/24/2023	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	01/24/2023	ND	197	98.6	200	12.6	
DRO >C10-C28*	194	10.0	01/24/2023	ND	210	105	200	0.793	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 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:	01/23/2023	Sampling Date:	01/23/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	RUNA SALADA A PAD RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NVONM2205/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: PA - 14 (2-2.5') (H230331-14)

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	01/23/2023	ND	1.98	98.9	2.00	1.44		
Toluene*	<0.050	0.050	01/23/2023	ND	2.15	107	2.00	1.18		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.11	105	2.00	1.32		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.48	108	6.00	2.11		
Total BTEx	<0.300	0.300	01/23/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	01/24/2023	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	01/24/2023	ND	197	98.6	200	12.6	
DRO >C10-C28*	43.4	10.0	01/24/2023	ND	210	105	200	0.793	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 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:	01/23/2023	Sampling Date:	01/23/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	RUNA SALADA A PAD RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NVONM2205/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: PA - 15 (2-2.5') (H230331-15)

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	01/23/2023	ND	1.98	98.9	2.00	1.44		
Toluene*	<0.050	0.050	01/23/2023	ND	2.15	107	2.00	1.18		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.11	105	2.00	1.32		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.48	108	6.00	2.11		
Total BTEx	<0.300	0.300	01/23/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	01/24/2023	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	01/24/2023	ND	197	98.6	200	12.6	
DRO >C10-C28*	50.1	10.0	01/24/2023	ND	210	105	200	0.793	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 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:	01/23/2023	Sampling Date:	01/23/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	RUNA SALADA A PAD RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NVONM2205/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: PA - 16 (2-2.5') (H230331-16)

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	01/24/2023	ND	1.98	98.9	2.00	1.44		
Toluene*	<0.050	0.050	01/24/2023	ND	2.15	107	2.00	1.18		
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.11	105	2.00	1.32		
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.48	108	6.00	2.11		
Total BTEx	<0.300	0.300	01/24/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	01/24/2023	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	01/24/2023	ND	197	98.6	200	12.6	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	210	105	200	0.793	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 97.7 % 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:	01/23/2023	Sampling Date:	01/23/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	RUNA SALADA A PAD RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NVONM2205/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: PA - 17 (2-2.5') (H230331-17)

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	01/23/2023	ND	1.80	90.2	2.00	12.7		
Toluene*	<0.050	0.050	01/23/2023	ND	1.86	92.9	2.00	11.2		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	1.82	91.1	2.00	10.9		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	5.55	92.5	6.00	9.60		
Total BTEx	<0.300	0.300	01/23/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1410	16.0	01/24/2023	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	01/24/2023	ND	197	98.6	200	12.6	
DRO >C10-C28*	90.6	10.0	01/24/2023	ND	210	105	200	0.793	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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:	01/23/2023	Sampling Date:	01/23/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	RUNA SALADA A PAD RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NVONM2205/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: PA - 18 (2-2.5') (H230331-18)

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	01/23/2023	ND	1.80	90.2	2.00	12.7		
Toluene*	0.106	0.050	01/23/2023	ND	1.86	92.9	2.00	11.2		
Ethylbenzene*	0.092	0.050	01/23/2023	ND	1.82	91.1	2.00	10.9		
Total Xylenes*	0.691	0.150	01/23/2023	ND	5.55	92.5	6.00	9.60		
Total BTEX	0.888	0.300	01/23/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1760	16.0	01/24/2023	ND	400	100	400	3.92	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	11.8	10.0	01/24/2023	ND	197	98.6	200	12.6	
DRO >C10-C28*	276	10.0	01/24/2023	ND	210	105	200	0.793	
EXT DRO >C28-C36	20.1	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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: 01/23/2023
 Reported: 01/24/2023
 Project Name: RUNA SALADA A PAD RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING, NM

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PA - 19 (2-2.5') (H230331-19)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2023	ND	1.80	90.2	2.00	12.7		
Toluene*	<0.050	0.050	01/23/2023	ND	1.86	92.9	2.00	11.2		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	1.82	91.1	2.00	10.9		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	5.55	92.5	6.00	9.60		
Total BTX	<0.300	0.300	01/23/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1920	16.0	01/24/2023	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	01/24/2023	ND	197	98.6	200	12.6	
DRO >C10-C28*	116	10.0	01/24/2023	ND	210	105	200	0.793	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 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:	01/23/2023	Sampling Date:	01/23/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	RUNA SALADA A PAD RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NVONM2205/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: PA - 20 (2-2.5') (H230331-20)

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	01/23/2023	ND	1.80	90.2	2.00	12.7		
Toluene*	<0.050	0.050	01/23/2023	ND	1.86	92.9	2.00	11.2		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	1.82	91.1	2.00	10.9		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	5.55	92.5	6.00	9.60		
Total BTEx	<0.300	0.300	01/23/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	01/24/2023	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	01/24/2023	ND	197	98.6	200	12.6	
DRO >C10-C28*	158	10.0	01/24/2023	ND	210	105	200	0.793	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/23/2023
 Reported: 01/24/2023
 Project Name: RUNA SALADA A PAD RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING, NM

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PA - 21 (2-2.5') (H230331-21)

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	01/23/2023	ND	1.80	90.2	2.00	12.7		
Toluene*	<0.050	0.050	01/23/2023	ND	1.86	92.9	2.00	11.2		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	1.82	91.1	2.00	10.9		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	5.55	92.5	6.00	9.60		
Total BTEx	<0.300	0.300	01/23/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	01/24/2023	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*	19.9	10.0	01/24/2023	ND	205	102	200	3.84	
DRO >C10-C28*	936	10.0	01/24/2023	ND	208	104	200	2.79	QM-07
EXT DRO >C28-C36	79.8	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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:	01/23/2023	Sampling Date:	01/23/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	RUNA SALADA A PAD RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NVONM2205/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: PA - 22 (2-2.5') (H230331-22)

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	01/23/2023	ND	1.80	90.2	2.00	12.7		
Toluene*	<0.050	0.050	01/23/2023	ND	1.86	92.9	2.00	11.2		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	1.82	91.1	2.00	10.9		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	5.55	92.5	6.00	9.60		
Total BTEX	<0.300	0.300	01/23/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	01/24/2023	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	01/24/2023	ND	205	102	200	3.84	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	208	104	200	2.79	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

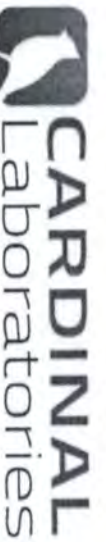
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A handwritten signature in black ink, appearing to read "Celey D. Keene", written over a horizontal line.

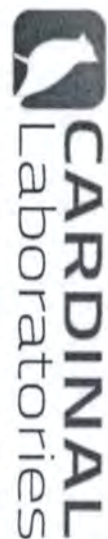
Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Altamira		P.O. #: Direct Bill Novo		ANALYSIS REQUEST	
Project Manager: Bryan Haney		Company: Oil and Gas			
Address: 14229 Punta Bonaire					
City: Corpus Christi		State: Texas Zip: 78412			
Phone #: 361-658-3126		Fax #:			
Project #: NVONM22057001		Project Owner: Bryan Haney			
Project Name: Novo Ovaton O Pad release		State: Zip:			
Project Location: Loving New Mexico		Phone #:			
Sample Name: Orlando Gonzalez Bryan Haney Mark Masio		Fax #:			
FOR LAB USE ONLY		PRESERV		SAMPLING	
Lab I.D.	Sample I.D.	MATRIX			
		GROUNDWATER			
		WASTEWATER			
		SOIL			
		OIL			
		SLUDGE			
		OTHER :			
		ACID/BASE:			
		ICE / COOL			
		OTHER :			
		DATE		TIME	
H230331	PA-1 (2-2.5')	11/23/2021 14:45		X	
1	PA-2 (2-2.5')	11/23/2021 14:47		X	
2	PA-3 (2-2.5')	11/23/2021 14:49		X	
3	PA-4 (2-2.5')	11/23/2021 14:51		X	
4	PA-5 (2-2.5')	11/23/2021 14:53		X	
5	PA-6 (2-2.5')	11/23/2021 14:55		X	
6	PA-7 (2-2.5')	11/23/2021 14:57		X	
7	PA-8 (2-2.5')	11/23/2021 14:59		X	
8	PA-9 (2-2.5')	11/23/2021 15:01		X	
9	PA-10 (2-2.5')	11/23/2021 15:03		X	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other causes whatsoever, shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or from the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Relinquished By: [Signature]		Received By: [Signature]		All Results are emailed. Please provide Email address:	
Date: 10/5/21		Time: 10:54		REMARKS: 24771	
Delivered By: (Circle One)		Observed Temp. °C		Turnaround Time: Standard Rush	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Thermometer ID #113	
		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Bacteria (only) Sample Condition	
				Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	
				Corrected Temp. °C	



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

February 07, 2023

BRYAN HANEY

ALTAMIRA - US

14229 PUNTA BONAIRE DR.

CORPUS CHRISTI, TX 78418

RE: NOVO PAD A RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 02/06/23 16:33.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/06/2023
 Reported: 02/07/2023
 Project Name: NOVO PAD A RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING NM

Sampling Date: 02/04/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PA - 11 3-3.5' (H230513-01)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2023	ND	206	103	200	0.479	
DRO >C10-C28*	<10.0	10.0	02/07/2023	ND	211	105	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	02/07/2023	ND					
Surrogate: 1-Chlorooctane	122 %	48.2-134							
Surrogate: 1-Chlorooctadecane	124 %	49.1-148							

Sample ID: PA - 13 3-3.5' (H230513-02)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2023	ND	206	103	200	0.479	
DRO >C10-C28*	<10.0	10.0	02/07/2023	ND	211	105	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	02/07/2023	ND					
Surrogate: 1-Chlorooctane	73.0 %	48.2-134							
Surrogate: 1-Chlorooctadecane	80.1 %	49.1-148							

Sample ID: PA - 17 3-3.5' (H230513-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	02/07/2023	ND	432	108	400	0.00	

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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: 02/06/2023
 Reported: 02/07/2023
 Project Name: NOVO PAD A RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING NM

Sampling Date: 02/04/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PA - 18 3-3.5' (H230513-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	02/07/2023	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2023	ND	206	103	200	0.479	
DRO >C10-C28*	<10.0	10.0	02/07/2023	ND	211	105	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	02/07/2023	ND					
Surrogate: 1-Chlorooctane	90.0 %	48.2-134							
Surrogate: 1-Chlorooctadecane	91.8 %	49.1-148							

Sample ID: PA - 19 3-3.5' (H230513-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1170	16.0	02/07/2023	ND	432	108	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/07/2023	ND	206	103	200	0.479		
DRO >C10-C28*	379	10.0	02/07/2023	ND	211	105	200	1.03		
EXT DRO >C28-C36	37.1	10.0	02/07/2023	ND						
Surrogate: 1-Chlorooctane	92.4 %	48.2-134								
Surrogate: 1-Chlorooctadecane	87.7 %	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: 02/06/2023
 Reported: 02/07/2023
 Project Name: NOVO PAD A RELEASE
 Project Number: NVONM2205/001
 Project Location: LOVING NM

Sampling Date: 02/04/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PA - 20 3-3.5' (H230513-06)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2023	ND	206	103	200	0.479	
DRO >C10-C28*	52.6	10.0	02/07/2023	ND	211	105	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	02/07/2023	ND					
Surrogate: 1-Chlorooctane	97.1 %	48.2-134							
Surrogate: 1-Chlorooctadecane	98.3 %	49.1-148							

Sample ID: PA - 21 3-3.5' (H230513-07)

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	02/07/2023	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2023	ND	206	103	200	0.479	
DRO >C10-C28*	<10.0	10.0	02/07/2023	ND	211	105	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	02/07/2023	ND					
Surrogate: 1-Chlorooctane	97.5 %	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

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

Cardinal Laboratories

*=Accredited Analyte

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

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

Company Name: Altamira		BILL TO		ANALYSIS REQUEST																			
Project Manager: Bryan Haney		P.O. #: Direct Bill Novo																					
Address: 14229 Punta Bonaire		Company: Oil and Gas																					
City: Corpus Christi		Attn:																					
Phone #: 361-658-3126		Address:																					
Fax #: 361-658-3126		City:																					
Project #: NVONM2304001		State:																					
Project Name: Novo Pad A <u>Novo Pad A</u>		Zip:																					
Project Location: Loving New Mexico		Phone #:																					
Sampler Name: Orlando Gonzalez, Bryan Haney Mark Masio		Fax #:																					
FOR LAB USE ONLY																							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX		PRESERV	SAMPLING	DATE	TIME	B	T	H	S	C	H	L	O	R	I	D	E	S	
				GROUNDWATER	WASTEWATER																		SOIL
1	PA-11	3-3.5'	1	X					2/4/23	0900	X	X	X	X	X	X	X	X	X	X	X	X	X
2	PA-13	3-3.5'	1	X					2/4/23	0925	X	X	X	X	X	X	X	X	X	X	X	X	
3	PA-17	3-3.5'	1	X					2/4/23	0930	X	X	X	X	X	X	X	X	X	X	X	X	
4	PA-18	3-3.5'	1	X					2/4/23	0935	X	X	X	X	X	X	X	X	X	X	X	X	
5	PA-19	3-3.5'	1	X					2/4/23	0940	X	X	X	X	X	X	X	X	X	X	X	X	
6	PA-20	3-3.5'	1	X					2/4/23	0945	X	X	X	X	X	X	X	X	X	X	X	X	
7	PA-21	3-3.5'	1	X					2/4/23	0951	X	X	X	X	X	X	X	X	X	X	X	X	

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

Relinquished By: <u>[Signature]</u>	Date: <u>2/6/23</u>	Time: <u>11:33</u>	Received By: <u>[Signature]</u>	Date: <u>2/6/23</u>	Time: <u>11:33</u>
REMARKS: <u>24 HR TAT</u>					

Delivered By: (Circle One)	Observed Temp. °C: <u>3.3</u>	Sample Condition	CHECKED BY: <u>[Signature]</u>	Turnaround Time: <u>24 HR TAT</u>
Sampler - UPS - Bus - Other:	Corrected Temp. °C: <u>2.7</u>	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Thermometer ID #113
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Correction Factor: <u>-0.6</u>
				Bacteria (only) <input checked="" type="checkbox"/>
				Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>
				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
				Corrected Temp. °C

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



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

February 21, 2023

BRYAN HANEY

ALTAMIRA - US

14229 PUNTA BONAIRE DR.

CORPUS CHRISTI, TX 78418

RE: NOVO A PAD RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 02/20/23 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 "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/20/2023
 Reported: 02/21/2023
 Project Name: NOVO A PAD RELEASE
 Project Number: NOVONM2205/001
 Project Location: LOVING NEW MEXICO

Sampling Date: 02/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PA 17 (4-4.5') (H230780-01)

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	02/21/2023	ND	400	100	400	3.92	

Sample ID: PA 18 (4-4.5') (H230780-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	02/21/2023	ND	400	100	400	3.92	

Sample ID: PA 19 (4-4.5') (H230780-03)

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	02/21/2023	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	02/21/2023	ND	202	101	200	1.97	
DRO >C10-C28*	23.8	10.0	02/21/2023	ND	190	95.1	200	6.96	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					

Surrogate: 1-Chlorooctane 71.7 % 48.2-134
 Surrogate: 1-Chlorooctadecane 71.6 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 207956

CONDITIONS

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 1001 West Wilshire Blvd Oklahoma City, OK 73116	OGRID: 372920
	Action Number: 207956
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2235736440 RANA SALADA FED COM 0605-23H, thank you. This closure is approved.	9/1/2023