

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	NRM2008459060
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party NNOGC Exploration & Production, LLC	OGRID 292875
Contact Name Vanessa Fields	Contact Telephone 505-787-9100
Contact email <a href="mailto:vanessa@walsheng.net">vanessa@walsheng.net</a>	Incident # (assigned by OCD) NRM2008459060
Contact mailing address 7415 E. Main Street Farmington NM 87402	

### Location of Release Source

Latitude 36.4536858 \_\_\_\_\_ Longitude 108.7440414 \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Navajo Tribe R #006	Site Type Produced Water
Date Release Discovered March 12, 2020	API# (if applicable) 30-045-21445

Unit Letter	Section	Township	Range	County
O	27	26N	18W	San Juan

Surface Owner: ☐ State ☐ Federal ☒ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

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

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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?	>100 (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 <b>not</b> 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 1/2-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.

Incident ID	NRM2008459060
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

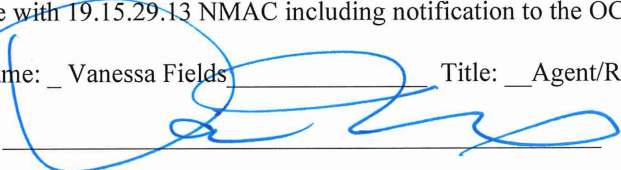
☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ 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: Vanessa Fields Title: Agent/Regulatory Compliance Manger

Signature:  Date: 1/20/2021

email: vanessa@walsheng.net Telephone: 505-787-9100

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Closure Approved by: Nelson Velez Date: 06/22/2022

Printed Name: Nelson Velez Title: Environmental Specialist – Adv



Vanessa Fields

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**From:** Vanessa Fields  
**Sent:** Thursday, December 31, 2020 3:02 PM  
**To:** 'Smith, Cory, EMNRD'; nnepawq@frontiernet.net  
**Cc:** 'Jon Wright'; 'Theresa Begay'; 'Rachael Dahozy'; 'CJ Woodie'; Vern Andrews; Jimmie McKinney  
**Subject:** RE: [EXT] RE: Confirmation Sampling Wednesday December 30, 2020 Navajo Tribe AR # 006 7 BBL Produced water 30-045-21445 incident number is NRM2008459060 Gypsum Application  
**Attachments:** E012118 Envirotech3\_v10 FINAL 12 31 20 1112.pdf

Good afternoon Cory,

The gypsum application/treatment was effective on the chloride remediation on the Navajo Tribe AR #006. Please find attached the final confirmation sample results as they are below the reclamation 600 mg/kg standard.

The final C-141 will be submitted through E-Permitting.

Thank you,

**Vanessa Fields**  
Regulatory Compliance Manager  
Walsh Engineering /Epic Energy LLC.  
O: 505-327-4892  
C: 505-787-9100  
[vanessa@walsheng.net](mailto:vanessa@walsheng.net)

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**From:** Vanessa Fields  
**Sent:** Monday, December 28, 2020 12:56 PM  
**To:** Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; nnepawq@frontiernet.net  
**Cc:** Jon Wright <JWright@nnogc.com>; Theresa Begay <TBegay@nnogc.com>; Rachael Dahozy <Rdahozy@nnogc.com>; CJ Woodie <CWoodie@nnogc.com>; Vern Andrews <vern@walsheng.net>; Jimmie McKinney <jimmie@walsheng.net>  
**Subject:** RE: [EXT] RE: Confirmation Sampling Wednesday December 30, 2020 Navajo Tribe AR #006 7 BBL Produced water 30-045-21445 incident number is NRM2008459060 Gypsum Application

Good morning,

Walsh Engineering is providing notification of the last chloride confirmation sampling Wednesday December 30, 2020 at 10:00 am

Thank you,

**Vanessa Fields**  
Regulatory Compliance Manager  
Walsh Engineering /Epic Energy LLC.  
O: 505-327-4892  
C: 505-787-9100



[vanessa@walsheng.net](mailto:vanessa@walsheng.net)

**From:** Vanessa Fields  
**Sent:** Friday, November 20, 2020 2:33 PM  
**To:** Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>; [nnepawq@frontiernet.net](mailto:nnepawq@frontiernet.net)  
**Cc:** Jon Wright <[JWright@nnogc.com](mailto:JWright@nnogc.com)>; Theresa Begay <[TBegay@nnogc.com](mailto:TBegay@nnogc.com)>; Rachael Dahozy <[Rdahozy@nnogc.com](mailto:Rdahozy@nnogc.com)>; CJ Woodie <[CWoodie@nnogc.com](mailto:CWoodie@nnogc.com)>; Vern Andrews <[vern@walsheng.net](mailto:vern@walsheng.net)>; Mike Coley <[mcoley@walsheng.net](mailto:mcoley@walsheng.net)>  
**Subject:** RE: [EXT] RE: Navajo Tribe AR #006 7 BBL Produced water 30-045-21445 incident number is NRM2008459060 Gypsum Application

Good afternoon everyone,

I wanted to provide a update on the Navajo Tribe AR #006 Gypsum application which was applied to the affected area 1 on November 15, 2020 , as the chlorides were over 600 mg/kg reclamation requirement.

Area 1 was hand raked prior to hand broad spreading of 50 pounds of gypsum with 12 gallons of water over sprayed over the gypsum application. Final hand raking was conducted to ensure the gypsum application was penetrated into the soil.

Final sampling for the 1 (5) point composite chloride sample will be conducted in the next couple of weeks. However, Walsh Engineering will provide 48 hour notice prior to collection of the sample.

Please let me know if you have any questions and/or concerns.

Thank you,

**Vanessa Fields**  
Regulatory Compliance Manager  
Walsh Engineering /Epic Energy LLC.  
O: 505-327-4892  
C: 505-787-9100  
[vanessa@walsheng.net](mailto:vanessa@walsheng.net)

**From:** Vanessa Fields  
**Sent:** Monday, September 28, 2020 4:57 PM  
**To:** 'Smith, Cory, EMNRD' <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>; [nnepawq@frontiernet.net](mailto:nnepawq@frontiernet.net)  
**Cc:** 'Jon Wright' <[JWright@nnogc.com](mailto:JWright@nnogc.com)>; 'Theresa Begay' <[TBegay@nnogc.com](mailto:TBegay@nnogc.com)>; 'Rachael Dahozy' <[Rdahozy@nnogc.com](mailto:Rdahozy@nnogc.com)>; 'CJ Woodie' <[CWoodie@nnogc.com](mailto:CWoodie@nnogc.com)>; Vern Andrews <[vern@walsheng.net](mailto:vern@walsheng.net)>; Mike Coley <[mcoley@walsheng.net](mailto:mcoley@walsheng.net)>  
**Subject:** RE: [EXT] RE: Navajo Tribe AR #006 7 BBL Produced water 30-045-21445 Sampling Notification Friday September 11, 2020 incident number is NRM2008459060

Good afternoon Cory,

The chloride composite sample that was collected on 9/11/2020 is still above the 600 mg/kg reclamation requirements. Walsh Engineering on behalf of NNOGC request an 90 day extension to apply an application of gypsum and work into the soil for further remediation.

Thank you,  
**Vanessa Fields**  
Regulatory Compliance Manager  
Walsh Engineering /Epic Energy LLC.  
O: 505-327-4892  
C: 505-787-9100  
[vanessa@walsheng.net](mailto:vanessa@walsheng.net)

---

**From:** Vanessa Fields  
**Sent:** Wednesday, September 9, 2020 10:41 AM  
**To:** 'Smith, Cory, EMNRD' <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>; [nnepawq@frontiernet.net](mailto:nnepawq@frontiernet.net)  
**Cc:** 'Jon Wright' <[JWright@nnogc.com](mailto:JWright@nnogc.com)>; 'Theresa Begay' <[TBegay@nnogc.com](mailto:TBegay@nnogc.com)>; Rachael Dahozy <[Rdahozy@nnogc.com](mailto:Rdahozy@nnogc.com)>; 'CJ Woodie' <[CWoodie@nnogc.com](mailto:CWoodie@nnogc.com)>; Vern Andrews <[vern@walsheng.net](mailto:vern@walsheng.net)>; Mike Coley <[mcoley@walsheng.net](mailto:mcoley@walsheng.net)>  
**Subject:** FW: [EXT] RE: Navajo Tribe AR #006 7 BBL Produced water 30-045-21445 Sampling Notification Friday September 11, 2020 incident number is NRM2008459060

Good morning Cory and Steve,

Walsh Engineering of behalf of Navajo Nation Oil and Gas will collect 1 5-point composite sample in area 1 on Friday September 11, 2020 at 10:30 am to meet 19.15.29 reclamation needs.

Thank you,

**Vanessa Fields**  
Regulatory Compliance Manager  
Walsh Engineering /Epic Energy LLC.  
O: 505-327-4892  
C: 505-787-9100  
[vanessa@walsheng.net](mailto:vanessa@walsheng.net)

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**From:** Vanessa Fields  
**Sent:** Tuesday, May 26, 2020 1:18 PM  
**To:** Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>; Steve Austin <[nnepawq@frontiernet.net](mailto:nnepawq@frontiernet.net)>  
**Cc:** 'Bill McCabe' <[wmccabe@nnogc.com](mailto:wmccabe@nnogc.com)>; 'Rachael Dahozy' <[Rdahozy@nnogc.com](mailto:Rdahozy@nnogc.com)>; 'CJ Woodie' <[CWoodie@nnogc.com](mailto:CWoodie@nnogc.com)>; Vern Andrews <[vern@walsheng.net](mailto:vern@walsheng.net)>; Mike Coley <[mcoley@walsheng.net](mailto:mcoley@walsheng.net)>; [JWright@nnogc.com](mailto:JWright@nnogc.com); 'Theresa Begay' <[TBegay@nnogc.com](mailto:TBegay@nnogc.com)>  
**Subject:** RE: [EXT] RE: Navajo Tribe AR #006 7 BBL Produced water 30-045-21445 Sampling Notification Wednesday May 27, 2020 at 2:00 pm.

Thank you Cory. Have a good day.

**Vanessa Fields**

Regulatory Compliance Manager  
 Walsh Engineering /Epic Energy LLC.  
 O: 505-327-4892  
 C: 505-787-9100  
[vanessa@walsheng.net](mailto:vanessa@walsheng.net)

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**From:** Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>  
**Sent:** Tuesday, May 26, 2020 1:03 PM  
**To:** Steve Austin <[nnepawq@frontiernet.net](mailto:nnepawq@frontiernet.net)>; Vanessa Fields <[vanessa@walsheng.net](mailto:vanessa@walsheng.net)>  
**Cc:** 'Bill McCabe' <[wmccabe@nnogc.com](mailto:wmccabe@nnogc.com)>; 'Rachael Dahozy' <[Rdahozy@nnogc.com](mailto:Rdahozy@nnogc.com)>; 'CJ Woodie' <[CWoodie@nnogc.com](mailto:CWoodie@nnogc.com)>; Vern Andrews <[vern@walsheng.net](mailto:vern@walsheng.net)>; Mike Coley <[mcoley@walsheng.net](mailto:mcoley@walsheng.net)>; [JWright@nnogc.com](mailto:JWright@nnogc.com); 'Theresa Begay' <[TBegay@nnogc.com](mailto:TBegay@nnogc.com)>  
**Subject:** RE: [EXT] RE: Navajo Tribe AR #006 7 BBL Produced water 30-045-21445 Sampling Notification Wednesday May 27, 2020 at 2:00 pm.

Vanessa,

Im good with the sampling plan I will most likely not be onsite so please Follow 19.15.29.12 NMAC or you can provide a sampling plan etc.

Thanks.

Cory Smith  
 Environmental Specialist  
 Oil Conservation Division  
 Energy, Minerals, & Natural Resources  
 1000 Rio Brazos, Aztec, NM 87410  
 (505)334-6178 ext 115  
[cory.smith@state.nm.us](mailto:cory.smith@state.nm.us)

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**From:** Steve Austin <[nnepawq@frontiernet.net](mailto:nnepawq@frontiernet.net)>  
**Sent:** Friday, May 22, 2020 3:36 PM  
**To:** 'Vanessa Fields' <[vanessa@walsheng.net](mailto:vanessa@walsheng.net)>; Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>  
**Cc:** 'Bill McCabe' <[wmccabe@nnogc.com](mailto:wmccabe@nnogc.com)>; 'Rachael Dahozy' <[Rdahozy@nnogc.com](mailto:Rdahozy@nnogc.com)>; 'CJ Woodie' <[CWoodie@nnogc.com](mailto:CWoodie@nnogc.com)>; 'Vern Andrews' <[vern@walsheng.net](mailto:vern@walsheng.net)>; 'Mike Coley' <[mcoley@walsheng.net](mailto:mcoley@walsheng.net)>; [JWright@nnogc.com](mailto:JWright@nnogc.com); 'Theresa Begay' <[TBegay@nnogc.com](mailto:TBegay@nnogc.com)>  
**Subject:** [EXT] RE: Navajo Tribe AR #006 7 BBL Produced water 30-045-21445 Sampling Notification Wednesday May 27, 2020 at 2:00 pm.

Vanessa,

I will not be able to attend, but approve the confirmation sampling. NNOG is responsible for obtaining permission from other regulatory authorities with jurisdiction over this release prior to sampling.

--Steve

Steve Austin  
 Senior Hydrologist  
 NNEPA WQ/NPDES Program



505-368-1037

**From:** Vanessa Fields [<mailto:vanessa@walsheng.net>]

**Sent:** Friday, May 22, 2020 2:59 PM

**To:** Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>; [nnepawq@frontiernet.net](mailto:nnepawq@frontiernet.net)

**Cc:** Bill McCabe <[wmccabe@nnogc.com](mailto:wmccabe@nnogc.com)>; Rachael Dahozy <[Rdahozy@nnogc.com](mailto:Rdahozy@nnogc.com)>; CJ Woodie <[CWoodie@nnogc.com](mailto:CWoodie@nnogc.com)>; Vern Andrews <[vern@walsheng.net](mailto:vern@walsheng.net)>; Mike Coley <[mcoley@walsheng.net](mailto:mcoley@walsheng.net)>; [JWright@nnogc.com](mailto:JWright@nnogc.com); Theresa Begay <[TBegay@nnogc.com](mailto:TBegay@nnogc.com)>

**Subject:** RE: Navajo Tribe AR #006 7 BBL Produced water 30-045-21445 Sampling Notification Wednesday May 27, 2020 at 2:00 pm.

Good afternoon Cory and Steve ,

Walsh Engineering on behalf of NNOG request final confirmation sampling on the Navajo AR #006 release. Walsh will utilize 19.1529 guidelines for the confirmation sampling.

**Final sampling will occur on Wednesday May 27, 2020 at 2:00 pm.**

Thank you,

**Vanessa Fields**

Regulatory Compliance Manager

Walsh Engineering /Epic Energy

O: 505-327-4892

C: 505-787-9100

[vanessa@walsheng.net](mailto:vanessa@walsheng.net)

**From:** Vanessa Fields

**Sent:** Thursday, April 30, 2020 2:39 PM

**To:** Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>; [nnepawq@frontiernet.net](mailto:nnepawq@frontiernet.net)

**Cc:** Bill McCabe <[wmccabe@nnogc.com](mailto:wmccabe@nnogc.com)>; Rachael Dahozy <[Rdahozy@nnogc.com](mailto:Rdahozy@nnogc.com)>; CJ Woodie <[CWoodie@nnogc.com](mailto:CWoodie@nnogc.com)>; Vern Andrews <[vern@walsheng.net](mailto:vern@walsheng.net)>; Mike Coley <[mcoley@walsheng.net](mailto:mcoley@walsheng.net)>; [JWright@nnogc.com](mailto:JWright@nnogc.com)

**Subject:** RE: Release notification Navajo Tribe AR #006 7 BBL Produced water 30-045-21445 Sampling Extension

Thank you very much Cory.

**Vanessa Fields**

Regulatory Compliance Manager

Walsh Engineering /Epic Energy LLC.

O: 505-327-4892

C: 505-787-9100

[vanessa@walsheng.net](mailto:vanessa@walsheng.net)

**From:** Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>

**Sent:** Thursday, April 30, 2020 2:29 PM

**To:** Vanessa Fields <[vanessa@walsheng.net](mailto:vanessa@walsheng.net)>; [nnepawq@frontiernet.net](mailto:nnepawq@frontiernet.net)

**Cc:** Bill McCabe <[wmccabe@nnogc.com](mailto:wmccabe@nnogc.com)>; Rachael Dahozy <[Rdahozy@nnogc.com](mailto:Rdahozy@nnogc.com)>; CJ Woodie <[CWoodie@nnogc.com](mailto:CWoodie@nnogc.com)>; Vern Andrews <[vern@walsheng.net](mailto:vern@walsheng.net)>; Mike Coley <[mcoley@walsheng.net](mailto:mcoley@walsheng.net)>; [JWright@nnogc.com](mailto:JWright@nnogc.com)  
**Subject:** RE: Release notification Navajo Tribe AR #006 7 BBL Produced water 30-045-21445 Sampling Extension

Vanessa,

Thank you, OCD has approved an extension for incident# NRM2008459060. Please submit the closure report no later than 8/30/2020.

Please include this approval in your final C-141 a hard copy will not be sent to you.

Thank you,

Cory Smith  
Environmental Specialist  
Oil Conservation Division  
Energy, Minerals, & Natural Resources  
1000 Rio Brazos, Aztec, NM 87410  
(505)334-6178 ext 115  
[cory.smith@state.nm.us](mailto:cory.smith@state.nm.us)

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**From:** Vanessa Fields <[vanessa@walsheng.net](mailto:vanessa@walsheng.net)>  
**Sent:** Thursday, April 30, 2020 2:19 PM  
**To:** Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>; [nnepawq@frontiernet.net](mailto:nnepawq@frontiernet.net)  
**Cc:** Bill McCabe <[wmccabe@nnogc.com](mailto:wmccabe@nnogc.com)>; Rachael Dahozy <[Rdahozy@nnogc.com](mailto:Rdahozy@nnogc.com)>; CJ Woodie <[CWoodie@nnogc.com](mailto:CWoodie@nnogc.com)>; Vern Andrews <[vern@walsheng.net](mailto:vern@walsheng.net)>; Mike Coley <[mcoley@walsheng.net](mailto:mcoley@walsheng.net)>; [JWright@nnogc.com](mailto:JWright@nnogc.com)  
**Subject:** [EXT] RE: Release notification Navajo Tribe AR #006 7 BBL Produced water 30-045-21445 Sampling Extension

Cory,

The incident number is NRM2008459060

Thank you,

**Vanessa Fields**  
Regulatory Compliance Manager  
Walsh Engineering /Epic Energy LLC.  
O: 505-327-4892  
C: 505-787-9100  
[vanessa@walsheng.net](mailto:vanessa@walsheng.net)

---

**From:** Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>  
**Sent:** Thursday, April 30, 2020 9:18 AM  
**To:** Vanessa Fields <[vanessa@walsheng.net](mailto:vanessa@walsheng.net)>; [nnepawq@frontiernet.net](mailto:nnepawq@frontiernet.net)  
**Cc:** Bill McCabe <[wmccabe@nnogc.com](mailto:wmccabe@nnogc.com)>; Rachael Dahozy <[Rdahozy@nnogc.com](mailto:Rdahozy@nnogc.com)>; CJ Woodie <[CWoodie@nnogc.com](mailto:CWoodie@nnogc.com)>; Vern Andrews <[vern@walsheng.net](mailto:vern@walsheng.net)>; Mike Coley <[mcoley@walsheng.net](mailto:mcoley@walsheng.net)>; [JWright@nnogc.com](mailto:JWright@nnogc.com)  
**Subject:** RE: Release notification Navajo Tribe AR #006 7 BBL Produced water 30-045-21445 Sampling Extension

Vanessa,

What is the incident# associated with the release?

Cory Smith  
Environmental Specialist  
Oil Conservation Division  
Energy, Minerals, & Natural Resources  
1000 Rio Brazos, Aztec, NM 87410  
(505)334-6178 ext 115  
[cory.smith@state.nm.us](mailto:cory.smith@state.nm.us)

**From:** Vanessa Fields <[vanessa@walsheng.net](mailto:vanessa@walsheng.net)>  
**Sent:** Thursday, April 30, 2020 9:09 AM  
**To:** Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>; [nnepawq@frontiernet.net](mailto:nnepawq@frontiernet.net)  
**Cc:** Bill McCabe <[wmccabe@nnogc.com](mailto:wmccabe@nnogc.com)>; Rachael Dahozy <[Rdahozy@nnogc.com](mailto:Rdahozy@nnogc.com)>; CJ Woodie <[CWoodie@nnogc.com](mailto:CWoodie@nnogc.com)>; Vern Andrews <[vern@walsheng.net](mailto:vern@walsheng.net)>; Mike Coley <[mcoley@walsheng.net](mailto:mcoley@walsheng.net)>; [JWright@nnogc.com](mailto:JWright@nnogc.com)  
**Subject:** [EXT] RE: Release notification Navajo Tribe AR #006 7 BBL Produced water 30-045-21445 Sampling Extension

Good morning Cory,

On behalf of Navajo Nation Oil and Gas, Walsh Engineering is requesting an extension on final sampling on the Navajo Tribe AR #006 release. The request is due to extensive COVID 19 in the area.

All impacts from the release have been remediated. Therefore, there is no evidence of impacts to the health of human life and/or the environment. The sitting requirement for closure is greater than 100'.

Thank you,

**Vanessa Fields**  
Regulatory Compliance Manager  
Walsh Engineering /Epic Energy LLC.  
O: 505-327-4892  
C: 505-787-9100  
[vanessa@walsheng.net](mailto:vanessa@walsheng.net)

**From:** Vanessa Fields  
**Sent:** Friday, March 13, 2020 11:38 AM  
**To:** Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>; [nnepawq@frontiernet.net](mailto:nnepawq@frontiernet.net)  
**Cc:** Bill McCabe <[wmccabe@nnogc.com](mailto:wmccabe@nnogc.com)>; Rachael Dahozy <[Rdahozy@nnogc.com](mailto:Rdahozy@nnogc.com)>; CJ Woodie <[CWoodie@nnogc.com](mailto:CWoodie@nnogc.com)>; Vern Andrews <[vern@walsheng.net](mailto:vern@walsheng.net)>; Mike Coley <[mcoley@walsheng.net](mailto:mcoley@walsheng.net)>  
**Subject:** Release notification Navajo Tribe AR #006 7 BBL Produced water 30-045-21445

Good morning,

On behalf of Navajo Nation Oil and Gas Walsh Engineering ids providing notification of the referenced release.

On Thursday March 12, 2020 at 2:00 pm Navajo Nation experienced a surface line fracture that resulted in a 7BBL release of produced water.

The release traveled to the edge of the surface road however, NNOG removed all standing hydrocarbons along with hydrocarbon impacted soil which was transported to Envirotech Land Farm. A berm was installed at the end of the road



to ensure no mitigation of hydrocarbons would occur due to a rain event. NNOG is conducting further investigation and will adhere to NMOCD's and Navajo Nation EPA guidelines in the remediation of the release.

Walsh Engineering along with NNOG conducted an inspection this morning and there were no evidence of any hydrocarbons migrating The remediation was successful last night.

An initial C-141 will be submitted through the E-portal and provided to Steve Austin.

30-045-21445 NAVAJO TRIBE AR #006 [311778]

General Well Information

Operator:

[302275] NNOGC EXPLORATION AND PRODUCTION, LLC

Status:

Active

Well Type:

Oil

Work Type:

New

Direction:

Vertical

Multi-Lateral:

No

Mineral Owner:

Navajo

Surface Owner:

Surface Location:

O-27-26N-18W 660 FSL 1980 FEL

Lat/Long:

38.4536858,-108.7440414 NAD83

GL Elevation:

5610

KB Elevation:

DF Elevation:

Sing/Mult Compl:

Single

Potash Waiver:

False

Thank you,  
**Vanessa Fields**  
Regulatory Compliance Manager  
Walsh Engineering /Epic Energy LLC.  
O: 505-327-4892  
C: 505-787-9100  
[vanessa@walsheng.net](mailto:vanessa@walsheng.net)

## 30-045-21445 NAVAJO TRIBE AR #006

INC # **NRM2008459060**

### Remediation Summary

On Thursday March 12, 2020 at 2:00 pm Navajo Nation experienced a surface line fracture that resulted in a 7BBL release of produced water.

The release traveled to the edge of the surface road however, NNOG removed all standing hydrocarbons along with hydrocarbon impacted soil which was transported to Envirotech Land Farm. A berm was installed at the end of the road to ensure no mitigation of hydrocarbons would occur due to a rain event. NNOG is conducting further investigation and will adhere to NMOCD's and Navajo Nation EPA guidelines in the remediation of the release. No injuries and or illness was reported with the release nor or any water ways affected.

Walsh Engineering along with NNOG conducted an inspection this morning and there were no evidence of any hydrocarbons migrating. All impacted material was removed, and area was prepared to be sampled on March 325, 2019.

On April 30, 2019 Walsh Engineering requested an extension on final sampling on the Navajo Tribe AR #006 release. The request was due to extensive COVID 19 in the area.

All impacts from the release had been remediated. Therefore, there was no evidence of impacts to the health of human life and/or the environment. The sitting requirement for closure is greater than 100'.

The approval was granted by the NMOCD in attached email chain.

On May 27, 2020 Walsh Engineering conducted 3 (5-point) composite samples of the impacted soil. All analytical results were below table 1 of 19.15.29 except for area one which failed the chloride requirements of 600 mg/kg.

Walsh Engineering of behalf of Navajo Nation Oil and Gas will collect 1 5-point composite sample in area 1 on Friday September 11, 2020 at 10:30 am to meet 19.15.29 reclamation needs.

The chloride composite sample that was collected on 9/11/2020 is still above the 600 mg/kg reclamation requirements. Walsh Engineering on behalf of NNOGC request a 90-day extension to apply an application of gypsum and work into the soil for further remediation.

On 11/20/2020 Walsh Engineering on behalf of Navajo Tribe AR #006 Gypsum application which was applied to the affected area 1 on November 15, 2020

Area 1 was hand raked prior to hand broad spreading of 50 pounds of gypsum with 12 gallons of water over sprayed over the gypsum application. Final hand raking was conducted to ensure the gypsum application was penetrated into the soil.

Walsh Engineering collected the last chloride confirmation sampling Wednesday December 30, 2020 at 10:00 am







Final Analytical were below reclamation standards

Sample Date	Sample Area	8021 BTEX	Benzene	8015 (GRO/DRO/ORO)	Chlorides
5/28/2021	Top Release	Non-Detect	Non-Detect	Non-Detect	962 mg/kg
5/28/2021	Middle Release	Non-Detect	Non-Detect	DRO 117 mg/kg GRO/ORO Non-Detect	Non-Detect
5/28/2021	End Release	Non-Detect	Non-Detect	DRO 30.1 mg/kg GRO/ORO Non-Detect	Non-Detect
9/11/2020	Top Release	Not Tested	Not Tested	Not Tested	963 mg/kg
12/30/2020	Top Release	Not Tested	Not Tested	Not Tested	259 mg/kg

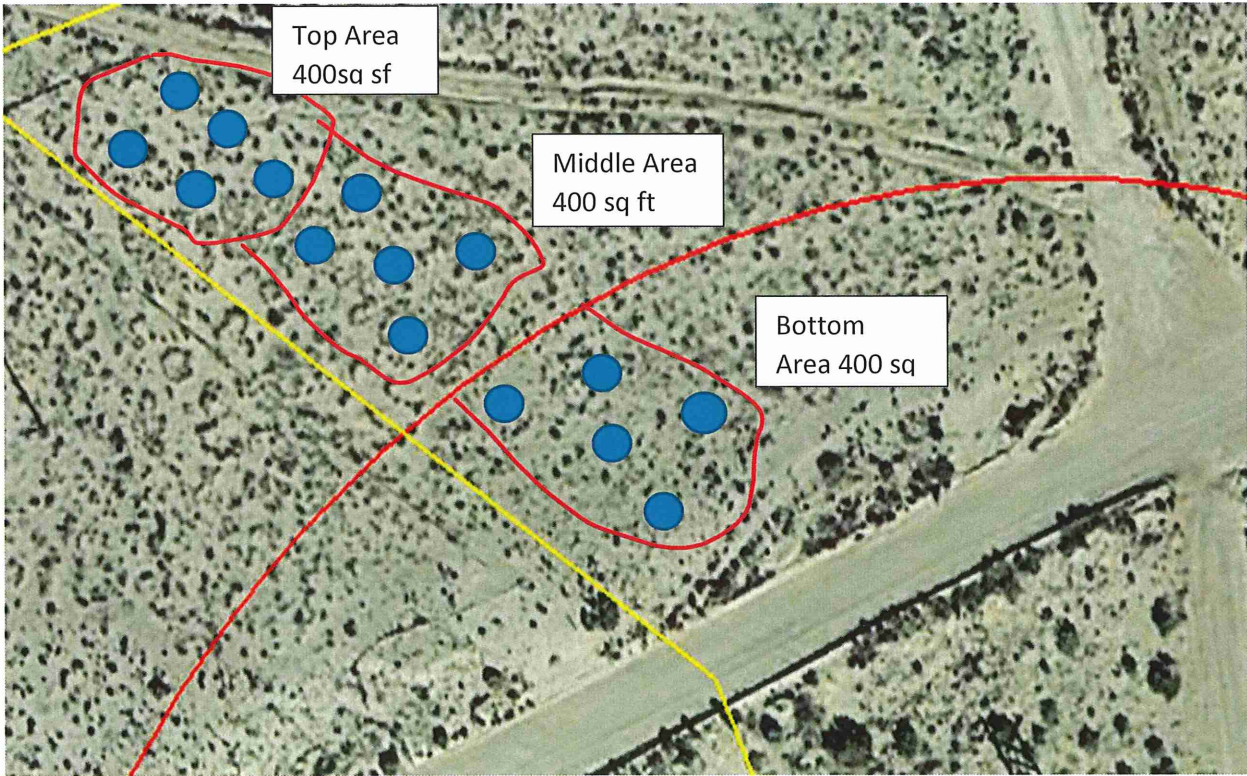


Table I Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤ 50 feet	Chloride***	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
>100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg



30-045-21445

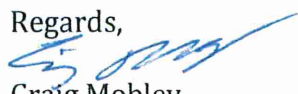
**Mo-Te Drilling Co. Inc.**  
**NM Lic. WD733**  
**P.O. Box 2773**  
**Farmington, NM 87499**  
**Phone: (505) 325 - 9711**

9/4/2018

To Whom It May Concern:

Please find the accompanying Drillers log as documentation that no water was encountered on the Navajo Oil and Gas well, Navajo Tribal A.R. #6, on 8/31/2018.

Regards,



Craig Mobley

NMOCB  
DEC 07 2018  
DISTRICT III



## MO-TE DRI LING, NC.

DAY

DRILLER <u>Tom WOOD</u>		LEFT TOWN	ARRIVED FIELD
HELPER <u>Tom Howard</u>		LEFT FIELD	ARRIVED TOWN
HELPER <u>Charles Howard</u>		TOTAL FOOTAGE TODAY	
RIG NO. <u>1</u>	DATE <u>2-3-18</u>	CLIENT <u>N.C. A.C.</u>	

BEGIN WORK ON HOLE NO. Morgan Trench A.R. #16 AT 10 FEETBEGIN WORK ON HOLE NO. Test well AT 10 FEET

TIME		ACTIVITY
FROM	TO	
7:30	9:00	Drive To location (1 1/2)
9:00	9:15	Safety meeting Rig up
9:15	9:30	Dull 6'14 0-50' Trip out. (50')
9:30	10:30	Wait for 1 hour TEST for water. (1)
10:30	10:45	No water Dull 50-110' TEST for (60')
		water - no water
10:45	11:00	Rig down
11:00	12:30	Drive in. (2)

## BIT RECORD

SIZE & MAKE	SERIAL NO.	FOOTAGE

## CIRCULATION MATERIAL

QUAN.	UNIT	MATERIAL

NO. OF LOADS OF WATER   SOURCE  

NMOC

DEC 07 2018

DISTRICT III



## Analytical Report

### Report Summary

Client: Navajo Nation Oil and Gas

Samples Received: 5/28/2020

Job Number: 08034-0006

Work Order: P005090

Project Name/Location: Navajo Tribe AR #001

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a horizontal line.

Date: 6/4/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.  
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.  
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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.  
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



Navajo Nation Oil and Gas	Project Name:	Navajo Tribe AR #001	
P.O. Box 4439	Project Number:	08034-0006	Reported:
Window Rock AZ, 86515	Project Manager:	Vanessa Fields	06/04/20 13:05

**Analytical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Top Release	P005090-01A	Soil	05/27/20	05/28/20	Glass Jar, 4 oz.
Middle Release	P005090-02A	Soil	05/27/20	05/28/20	Glass Jar, 4 oz.
End Release	P005090-03A	Soil	05/27/20	05/28/20	Glass Jar, 4 oz.

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Navajo Nation Oil and Gas  
P.O. Box 4439  
Window Rock AZ, 86515

Project Name: Navajo Tribe AR #001  
Project Number: 08034-0006  
Project Manager: Vanessa Fields

Reported:  
06/04/20 13:05

**Top Release**  
**P005090-01 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.0250	mg/kg	1	2022031	05/29/20	05/30/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2022031	05/29/20	05/30/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2022031	05/29/20	05/30/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2022031	05/29/20	05/30/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2022031	05/29/20	05/30/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2022031	05/29/20	05/30/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		108 %		50-150	2022031	05/29/20	05/30/20	EPA 8021B	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2022027	05/29/20	05/29/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2022027	05/29/20	05/29/20	EPA 8015D	
Surrogate: n-Nonane		94.9 %		50-200	2022027	05/29/20	05/29/20	EPA 8015D	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2022031	05/29/20	05/30/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.3 %		50-150	2022031	05/29/20	05/30/20	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	962	100	mg/kg	5	2023004	06/02/20	06/02/20	EPA 300.0/9056A	

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Navajo Nation Oil and Gas  
P.O. Box 4439  
Window Rock AZ, 86515

Project Name: Navajo Tribe AR #001  
Project Number: 08034-0006  
Project Manager: Vanessa Fields

Reported:  
06/04/20 13:05

**Middle Release**  
**P005090-02 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.0250	mg/kg	1	2022031	05/29/20	05/30/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2022031	05/29/20	05/30/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2022031	05/29/20	05/30/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2022031	05/29/20	05/30/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2022031	05/29/20	05/30/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2022031	05/29/20	05/30/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		109 %		50-150	2022031	05/29/20	05/30/20	EPA 8021B	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
Diesel Range Organics (C10-C28)	117	25.0	mg/kg	1	2022027	05/29/20	05/29/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2022027	05/29/20	05/29/20	EPA 8015D	
Surrogate: n-Nonane		97.8 %		50-200	2022027	05/29/20	05/29/20	EPA 8015D	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2022031	05/29/20	05/30/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.6 %		50-150	2022031	05/29/20	05/30/20	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	ND	100	mg/kg	5	2023004	06/02/20	06/02/20	EPA 300.0/9056A	

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Navajo Nation Oil and Gas  
P.O. Box 4439  
Window Rock AZ, 86515

Project Name: Navajo Tribe AR #001  
Project Number: 08034-0006  
Project Manager: Vanessa Fields

Reported:  
06/04/20 13:05

**End Release**  
**P005090-03 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.0250	mg/kg	1	2022031	05/29/20	05/30/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2022031	05/29/20	05/30/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2022031	05/29/20	05/30/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2022031	05/29/20	05/30/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2022031	05/29/20	05/30/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2022031	05/29/20	05/30/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		107 %		50-150	2022031	05/29/20	05/30/20	EPA 8021B	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
Diesel Range Organics (C10-C28)	30.1	25.0	mg/kg	1	2022027	05/29/20	05/30/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2022027	05/29/20	05/30/20	EPA 8015D	
Surrogate: n-Nonane		98.3 %		50-200	2022027	05/29/20	05/30/20	EPA 8015D	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2022031	05/29/20	05/30/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %		50-150	2022031	05/29/20	05/30/20	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	ND	40.0	mg/kg	2	2023004	06/02/20	06/02/20	EPA 300.0/9056A	

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Navajo Nation Oil and Gas  
P.O. Box 4439  
Window Rock AZ, 86515

Project Name: Navajo Tribe AR #001  
Project Number: 08034-0006  
Project Manager: Vanessa Fields

Reported:  
06/04/20 13:05

### Volatile Organics by EPA 8021 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 2022031 - Purge and Trap EPA 5030A

##### Blank (2022031-BLK1)

Prepared & Analyzed: 05/29/20 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.29		"	8.00		104	50-150			

##### LCS (2022031-BS1)

Prepared & Analyzed: 05/29/20 1

Benzene	5.18	0.0250	mg/kg	5.00		104	70-130			
Toluene	5.19	0.0250	"	5.00		104	70-130			
Ethylbenzene	5.17	0.0250	"	5.00		103	70-130			
p,m-Xylene	10.3	0.0500	"	10.0		103	70-130			
o-Xylene	5.19	0.0250	"	5.00		104	70-130			
Total Xylenes	15.5	0.0250	"	15.0		104	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.40		"	8.00		105	50-150			

##### Matrix Spike (2022031-MS1)

Source: P005086-21

Prepared: 05/29/20 1 Analyzed: 05/29/20 2

Benzene	5.01	0.0250	mg/kg	5.00	ND	100	54.3-133			
Toluene	5.02	0.0250	"	5.00	ND	100	61.4-130			
Ethylbenzene	5.00	0.0250	"	5.00	ND	100	61.4-133			
p,m-Xylene	10.0	0.0500	"	10.0	ND	100	63.3-131			
o-Xylene	5.02	0.0250	"	5.00	ND	100	63.3-131			
Total Xylenes	15.0	0.0250	"	15.0	ND	100	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.38		"	8.00		105	50-150			

##### Matrix Spike Dup (2022031-MSD1)

Source: P005086-21

Prepared: 05/29/20 1 Analyzed: 05/29/20 2

Benzene	5.02	0.0250	mg/kg	5.00	ND	100	54.3-133	0.310	20	
Toluene	5.02	0.0250	"	5.00	ND	100	61.4-130	0.0597	20	
Ethylbenzene	5.00	0.0250	"	5.00	ND	100	61.4-133	0.0630	20	
p,m-Xylene	10.0	0.0500	"	10.0	ND	100	63.3-131	0.0740	20	
o-Xylene	5.02	0.0250	"	5.00	ND	100	63.3-131	0.0777	20	
Total Xylenes	15.0	0.0250	"	15.0	ND	100	0-200	0.0752	200	
Surrogate: 4-Bromochlorobenzene-PID	8.21		"	8.00		103	50-150			

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Navajo Nation Oil and Gas	Project Name:	Navajo Tribe AR #001	Reported: 06/04/20 13:05
P.O. Box 4439	Project Number:	08034-0006	
Window Rock AZ, 86515	Project Manager:	Vanessa Fields	

**Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control**

**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 2022027 - DRO Extraction EPA 3570**

**Blank (2022027-BLK1)**

Prepared & Analyzed: 05/29/20 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	51.6		"	50.0		103	50-200			

**LCS (2022027-BS1)**

Prepared & Analyzed: 05/29/20 1

Diesel Range Organics (C10-C28)	439	25.0	mg/kg	500		87.8	38-132			
Surrogate: n-Nonane	47.7		"	50.0		95.3	50-200			

**Matrix Spike (2022027-MS1)**

Source: P005084-01

Prepared & Analyzed: 05/29/20 1

Diesel Range Organics (C10-C28)	449	25.0	mg/kg	500	ND	89.8	38-132			
Surrogate: n-Nonane	43.8		"	50.0		87.6	50-200			

**Matrix Spike Dup (2022027-MSD1)**

Source: P005084-01

Prepared & Analyzed: 05/29/20 1

Diesel Range Organics (C10-C28)	448	25.0	mg/kg	500	ND	89.5	38-132	0.327	20	
Surrogate: n-Nonane	45.3		"	50.0		90.6	50-200			

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Navajo Nation Oil and Gas	Project Name:	Navajo Tribe AR #001	
P.O. Box 4439	Project Number:	08034-0006	Reported:
Window Rock AZ, 86515	Project Manager:	Vanessa Fields	06/04/20 13:05

### Nonhalogenated Organics by 8015 - GRO - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

#### Batch 2022031 - Purge and Trap EPA 5030A

##### Blank (2022031-BLK1)

Prepared & Analyzed: 05/29/20 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		"	8.00		92.4	50-150			

##### LCS (2022031-BS2)

Prepared & Analyzed: 05/29/20 1

Gasoline Range Organics (C6-C10)	49.2	20.0	mg/kg	50.0		98.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		"	8.00		93.5	50-150			

##### Matrix Spike (2022031-MS2)

Source: P005086-21

Prepared: 05/29/20 1 Analyzed: 05/29/20 2

Gasoline Range Organics (C6-C10)	49.4	20.0	mg/kg	50.0	ND	98.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		"	8.00		94.9	50-150			

##### Matrix Spike Dup (2022031-MSD2)

Source: P005086-21

Prepared: 05/29/20 1 Analyzed: 05/29/20 2

Gasoline Range Organics (C6-C10)	50.1	20.0	mg/kg	50.0	ND	100	70-130	1.50	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		"	8.00		92.5	50-150			

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Navajo Nation Oil and Gas	Project Name:	Navajo Tribe AR #001	Reported: 06/04/20 13:05
P.O. Box 4439	Project Number:	08034-0006	
Window Rock AZ, 86515	Project Manager:	Vanessa Fields	

**Anions by 300.0/9056A - Quality Control**

**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2023004 - Anion Extraction EPA 300.0/9056A</b>										
<b>Blank (2023004-BLK1)</b>				Prepared & Analyzed: 06/02/20 1						
Chloride	ND	20.0	mg/kg							
<b>LCS (2023004-BS1)</b>				Prepared & Analyzed: 06/02/20 1						
Chloride	249	20.0	mg/kg	250		99.5	90-110			
<b>Matrix Spike (2023004-MS1)</b>				Source: P005089-01		Prepared & Analyzed: 06/02/20 1				
Chloride	675	20.0	mg/kg	250	457	87.3	80-120			
<b>Matrix Spike Dup (2023004-MSD1)</b>				Source: P005089-01		Prepared & Analyzed: 06/02/20 1				
Chloride	644	20.0	mg/kg	250	457	74.9	80-120	4.71	20	M2

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Navajo Nation Oil and Gas	Project Name:	Navajo Tribe AR #001	
P.O. Box 4439	Project Number:	08034-0006	Reported:
Window Rock AZ, 86515	Project Manager:	Vanessa Fields	06/04/20 13:05

Notes and Definitions

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

\*\* Methods marked with \*\* are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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## Project Information

## Chain of Custody

Page 1 of 1

Client: <u>UNOC</u>				Bill To				Lab Use Only				TAT		EPA Program							
Project: <u>Norway's AR #001</u>				Attention: <u>Vanessa Fields</u>				Lab WO#		Job Number		1D	3D	RCRA	CWA	SDWA					
Project Manager: <u>Vanessa Fields</u>				Address: <u>Norway's AR #001</u>				P005090		08034-0000											
Address: <u>7415 E. Main St</u>				City, State, Zip: <u>0.12 Gas</u>				Analysis and Method										State			
City, State, Zip: <u>Farmington NM 87402</u>				Phone: <u>505-728-7322</u>														NM CO UT AZ			
Phone: <u>505-728-7322</u>				Email: <u>vanessa@unoc.com</u>														TX OK			
Report due by: <u>8/20/20</u>																					
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Type	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0					Remarks				
12:13	5/27/20		1402	Top Release		1	X	X	X			X									
12:22	5/27/20		1402	Middle Release		2	X	X	X			X									
12:31	5/27/20		1402	Encl Release		3	X	X	X			X									

## Additional Instructions:

(field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <u>Y</u> <u>N</u> <u>6.1</u> T1 <u>6.8</u> T2 <u>5.4</u> T3 AVG Temp °C <u>4°C</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



5795 US Highway 64, Farmington, NM 87401  
24 Hour Emergency Response Phone (800) 362-1079

Ph (505) 632-1881 Fx (505) 632-1865

envirotech-inc.com  
labadmin@envirotech-inc.com





## Analytical Report

### Report Summary

Client: Navajo Nation Oil and Gas

Samples Received: 9/11/2020

Job Number: 07173-0001

Work Order: P009055

Project Name/Location: Navajo Tribe AR #006

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a horizontal line.

Date: 9/14/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.  
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.  
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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.  
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.





Navajo Nation Oil and Gas	Project Name:	Navajo Tribe AR #006	
P.O. Box 4439	Project Number:	07173-0001	Reported:
Window Rock AZ, 86515	Project Manager:	Vanessa Fields	09/14/20 14:31

Sample Summary

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Top Area Release	P009055-01A	Soil	09/11/20	09/11/20	Glass Jar, 4 oz.

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Navajo Nation Oil and Gas	Project Name:	Navajo Tribe AR #006	
P.O. Box 4439	Project Number:	07173-0001	Reported:
Window Rock AZ, 86515	Project Manager:	Vanessa Fields	09/14/20 14:31

Top Area Release  
P009055-01 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg			Batch: 2038001
Chloride	963	100	5	09/14/20	09/14/20	

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Navajo Nation Oil and Gas	Project Name:	Navajo Tribe AR #006	
P.O. Box 4439	Project Number:	07173-0001	<b>Reported:</b>
Window Rock AZ, 86515	Project Manager:	Vanessa Fields	09/14/20 14:31

**Anions by EPA 300.0/9056A - Quality Control**

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

**Blank (2038001-BLK1)** Prepared: 09/14/20 0 Analyzed: 09/14/20 1

Chloride	ND	20.0							
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**LCS (2038001-BS1)** Prepared: 09/14/20 0 Analyzed: 09/14/20 1

Chloride	249	20.0	250		99.6	90-110			
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**Matrix Spike (2038001-MS1)** **Source: P009055-01** Prepared: 09/14/20 0 Analyzed: 09/14/20 1

Chloride	1260	100	250	963	117	80-120			
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**Matrix Spike Dup (2038001-MSD1)** **Source: P009055-01** Prepared: 09/14/20 0 Analyzed: 09/14/20 1

Chloride	1290	100	250	963	130	80-120	2.59	20	M2
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**QC Summary Report Comment:**

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Navajo Nation Oil and Gas	Project Name:	Navajo Tribe AR #006	
P.O. Box 4439	Project Number:	07173-0001	Reported:
Window Rock AZ, 86515	Project Manager:	Vanessa Fields	09/14/20 14:31

Notes and Definitions

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

9999999999

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

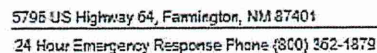
\*\* Methods marked with \*\* are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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## Chain of Custody

Page 1 of 1Page 6 of 6

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labadmin@envirotech-inc.com



Report to:  
Vanessa Fields



5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



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## Analytical Report

### Navajo Nation Oil and Gas

Project Name: Navajo Tribe AR #006

Work Order: E012118

Job Number: 08034-0006

Received: 12/30/2020

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
12/31/20

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc, holds the Utah TNI certification NM009792018-1 for data reported.  
Envirotech Inc, holds the Texas TNI certification T104704557-19-2 for data reported.

Date Reported: 12/31/20

Vanessa Fields  
P.O. Box 4439  
Window Rock, AZ 86515



Project Name: Navajo Tribe AR #006  
Workorder: E012118  
Date Received: 12/30/2020 12:30:00PM

Vanessa Fields,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/30/2020 12:30:00PM, under the Project Name: Navajo Tribe AR #006.

The analytical test results summarized in this report with the Project Name: Navajo Tribe AR #006 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

## Table of Contents

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### Sample Summary

Navajo Nation Oil and Gas	Project Name:	Navajo Tribe AR #006	Reported:
P.O. Box 4439	Project Number:	08034-0006	
Window Rock AZ, 86515	Project Manager:	Vanessa Fields	12/31/20 11:12

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Navajo Tribe AR #006	E012118-01A	Soil	12/30/20	12/30/20	Glass Jar, 4 oz.



Sample Data

Navajo Nation Oil and Gas	Project Name:	Navajo Tribe AR #006	Reported:
P.O. Box 4439	Project Number:	08034-0006	12/31/2020 11:12:34AM
Window Rock AZ, 86515	Project Manager:	Vanessa Fields	

Navajo Tribe AR #006

E012118-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: NE			Batch: 2053008
Chloride	259	40.0	2	12/30/20	12/30/20	

## QC Summary Data

Navajo Nation Oil and Gas	Project Name:	Navajo Tribe AR #006	Reported:
P.O. Box 4439	Project Number:	08034-0006	
Window Rock AZ, 86515	Project Manager:	Vanessa Fields	12/31/2020 11:12:34AM

### Anions by EPA 300.0/9056A

Analyst: NE

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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#### Blank (2053008-BLK1)

Prepared: 12/30/20 Analyzed: 12/30/20

Chloride	ND	20.0				
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#### LCS (2053008-BS1)

Prepared: 12/30/20 Analyzed: 12/30/20

Chloride	247	20.0	250	98.9	90-110	
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#### Matrix Spike (2053008-MS1)

Source: E012114-01 Prepared: 12/30/20 Analyzed: 12/30/20

Chloride	253	20.0	250	ND	101	80-120
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#### Matrix Spike Dup (2053008-MSD1)

Source: E012114-01 Prepared: 12/30/20 Analyzed: 12/30/20

Chloride	252	20.0	250	ND	101	80-120	0.423	20
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#### QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.





## Definitions and Notes

Navajo Nation Oil and Gas	Project Name:	Navajo Tribe AR #006	
P.O. Box 4439	Project Number:	08034-0006	<b>Reported:</b>
Window Rock AZ, 86515	Project Manager:	Vanessa Fields	12/31/20 11:12

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



## Project Information

## Chain of Custody

Page 1 of 1

[illegible]

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# Envirotech Analytical Laboratory

Printed: 12/30/2020 12:36:42PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Navajo Nation Oil and Gas	Date Received:	12/30/20 12:30	Work Order ID:	E012118
Phone:	(505) 787-9100	Date Logged In:	12/30/20 12:33	Logged In By:	Alexa Michaels
Email:	Vanessa@walsheng.net	Due Date:	12/30/20 17:00 (0 day TAT)		

### Chain of Custody (COC)

- |   |     |
|---|-----|
| 1. Does the sample ID match the COC?  | Yes |
| 2. Does the number of samples per sampling site location match the COC      | Yes |
| 3. Were samples dropped off by client or carrier?                           | Yes |
| 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? | Yes |
| 5. Were all samples received within holding time?                           | Yes |

Carrier: Vanessa Fields

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

### Sample Turn Around Time (TAT)

- |   |     |
|---|-----|
| 6. Did the COC indicate standard TAT, or Expedited TAT? | Yes |
|---|-----|

### Sample Cooler

- |  |     |
|--|-----|
| 7. Was a sample cooler received?   | Yes |
| 8. If yes, was cooler received in good condition?                                  | Yes |
| 9. Was the sample(s) received intact, i.e., not broken?                            | Yes |
| 10. Were custody/security seals present?   | No  |
| 11. If yes, were custody/security seals intact?                                    | NA  |
| 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C | Yes |

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- |   |     |
|---|-----|
| 13. If no visible ice, record the temperature. Actual sample temperature: | 4°C |
|---|-----|

### Sample Container

- |  |     |
|--|-----|
| 14. Are aqueous VOC samples present?   | No  |
| 15. Are VOC samples collected in VOA Vials?                                    | NA  |
| 16. Is the head space less than 6-8 mm (pea sized or less)?                    | NA  |
| 17. Was a trip blank (TB) included for VOC analyses?                           | NA  |
| 18. Are non-VOC samples collected in the correct containers?                   | Yes |
| 19. Is the appropriate volume/weight or number of sample containers collected? | Yes |

### Field Label

- |   |     |
|---|-----|
| 20. Were field sample labels filled out with the minimum information: |     |
| Sample ID?  | Yes |
| Date/Time Collected?  | Yes |
| Collectors name?  | No  |

### Sample Preservation

- |   |    |
|---|----|
| 21. Does the COC or field labels indicate the samples were preserved? | No |
| 22. Are sample(s) correctly preserved?                                | NA |
| 24. Is lab filtration required and/or requested for dissolved metals? | No |

### Multiphase Sample Matrix

- |  |    |
|--|----|
| 26. Does the sample have more than one phase, i.e., multiphase?    | No |
| 27. If yes, does the COC specify which phase(s) is to be analyzed? | NA |

### Subcontract Laboratory

- |   |                        |
|---|------------------------|
| 28. Are samples required to get sent to a subcontract laboratory?       | No                     |
| 29. Was a subcontract laboratory specified by the client and if so who? | NA Subcontract Lab: NA |

### Client Instruction

### Comments/Resolution

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

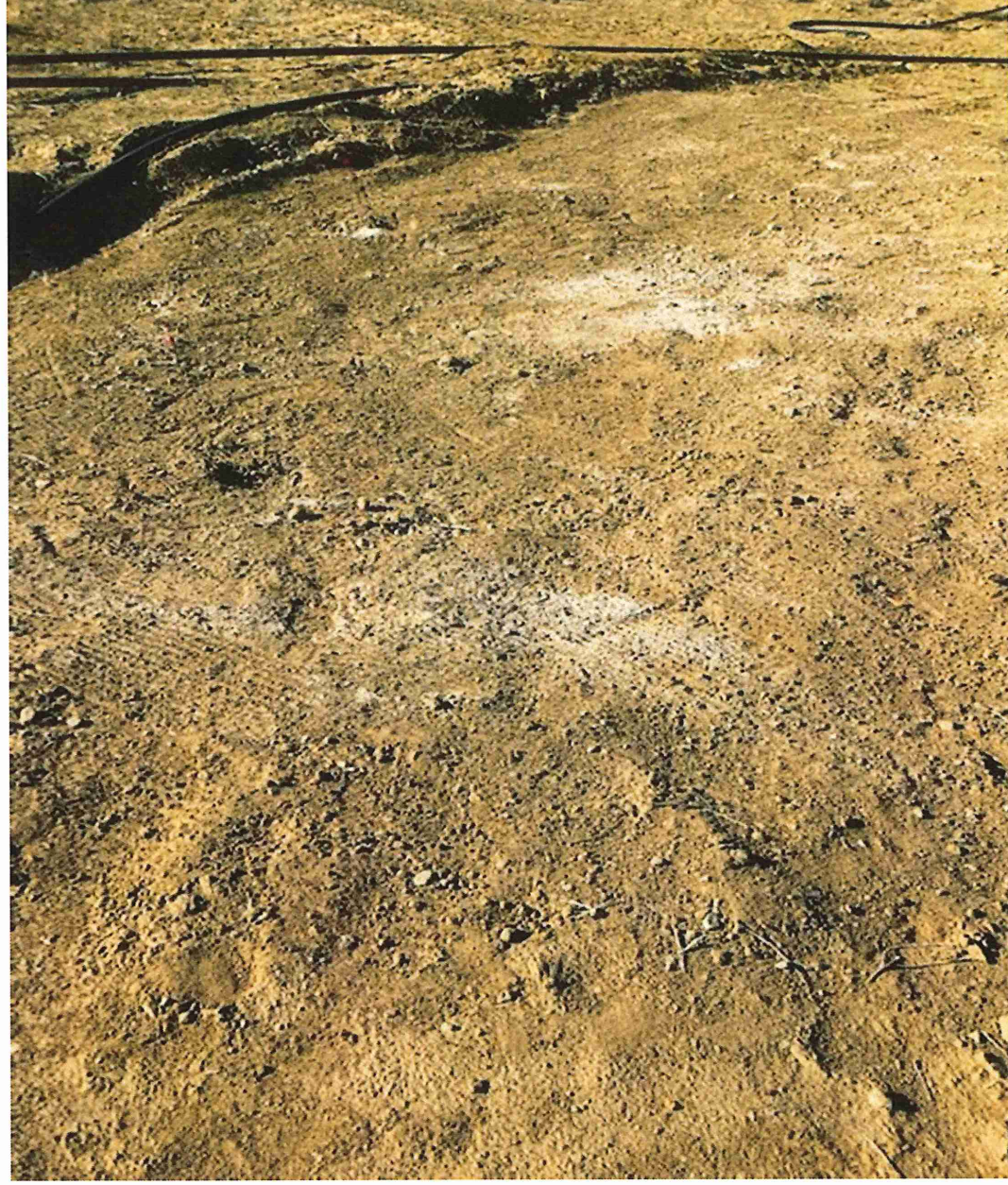












**District I**

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 17037

## CONDITIONS

Operator: NNOGC EXPLORATION AND PRODUCTION, LLC P.O. Box 4439 Window Rock, AZ 86515	OGRID: 292875
	Action Number: 17037
	Action Type: [C-141] Release Corrective Action (C-141)

## CONDITIONS

Created By	Condition	Condition Date
nvelez	None	6/22/2022