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

Printed Name: Vern O. Andrews

Title: Contract Superintendent

State of New Mexico Energy Minerals and Natural Resources

Revised April 3, 2017

Form C-141

Oil Conservation Division 1220 South St. Francis Dr.

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

Expiration Date:

| <u>District IV</u> 1220 S. St. Fran | ncis Dr., Sant | a Fe, NM 87505 | 5 | | | 1 St. Fran e, NM 87 | | | | | | |
|---|--|---|--|---|------------------------------|--|---|---|--------------------------------------|--|-----------------------------|---|
| | | | Rele | | S. S. S. S. | NAME OF TAXABLE PARTY. | orrective A | ction | | | | |
| | | | Iten | ase mount | cution | OPERA | | | 1 Initia | ıl Report | \bowtie | Final Repor |
| Name of Co | ampany ' | Tacitus, LLC | , | | | | Vern O Andrews | |] IIIIIIa | пкероп | | Tillal Repol |
| | | | | n, NM 87401 | | | No. – 505-327-4 | 892 | | | | |
| | | jo Tribal U # | | 1, 14101 07401 | | - | pe – Well & gath | | | | | |
| | | | 1007 | | | racinty ry | pe wenægun | | | | | |
| Surface Ow | ner - Nava | ajo | | Mineral (| Owner - | | | 1 | API No | . – 30-045 | -2019 | 96 |
| | | | | LOC | ATIO | N OF RE | LEASE | | | | | |
| Unit Letter M | Section 22 | Township 26N | Range 18W | Feet from the 660 | North/ South | South Line | Feet from the 660 | East/Wes West | t Line | County San Juan | | |
| | | | Latitud | le 36.4681816 | Lo | ngitude_,-1 | 08.7530289 | NAD83 | | | | |
| | | | | NAT | ГURE | OF REL | EASE | | | | | |
| | | ering line leak | | | | | f Release – 15 bbl | | olume R | ecovered – | 0 bbls | S |
| | | between well pordinates 36. | | oattery about 100 108.755092 | 00 feet | | Hour of Occurrenc 9:00 am 6-24-18 & 8 | | ate and l 30 am 6 | Hour of Dis -25-18 | covery | У |
| Was Immedi | ate Notice (| | Yes | No Not R | Lequired | | o Whom? Vanessa Farmington BLM | Fields, NN | MOCD, S | Steve Austin | ı, NN | EPA, Whitney |
| By Whom? | Vern Andre | ews | | | | Date and | Hour – 6-25-18 1:0 | 00 pm | | | | |
| Was a Water | | | Yes 🛚 |] No | | | olume Impacting t | | ourse. | | | |
| If a Watercon | urse was Im | pacted, Descr | ibe Fully.* | ķ | | | | | NMC | CD | Material Services | |
| | | | | | | | | Ş | SEP 0 | 4 2018 | | |
| The gatherin and went to tand NTU #7 | g line betwe he access ro wells in an | oad and travelled isolated the | nd the Toc led 325 fee pipeline to | ito Dome Tank E et to the east dow o stop the leak. H | on the according the then no | cess road. Wotified Vern | eak between Sunda hen Michael Dean Andrews @ Walsh aped up with a bac | found the last Engineeri | leak he i ng and v | mmediately ve notified I | shut t Eric O | the NTU#9 breiter with |
| Impacted soi by installing Excavation h | l will be rer an 8' sub u nole back fil | pstream of the led after final | nsported to riser. soil samp | o IEI Landfarm f | ıd approv | ed by NMO | gathering line will CD with bottom o | | | | l line | was repaired |
| regulations a public health should their or the enviro | all operators or the envi operations lonment. In a | are required to a remark are required to a remark are failed to a | o report and acceptant adequately OCD accept | nd/or file certain ce of a C-141 rep investigate and | release nort by the remediat | otifications e NMOCD i e contamina | y knowledge and used to the correct of the correct | etive action eport" does eat to groun | s for rele s not reli nd water | eases which eve the open s, surface wa | may e rator c ater, h | endanger of liability uman health |
| Signature: | Ven | 0- | 10 | heurs | | A | OIL C | | | ON DIV | ISIO | N |

vern@walsheng.net

From:

Fields, Vanessa, EMNRD < Vanessa, Fields@state.nm.us>

Sent:

Monday, July 30, 2018 9:55 AM

To:

vern@walsheng.net

Cc:

'Michael Dean'; 'John Jr.'; Smith, Cory, EMNRD

Subject:

RE: Tacitus - NTU #9

Good morning Vern,

The OCD grants approval for Tacitus to utilize the New Spill Rule 19.15.29 NMAC to close the remediation at the Tacitus NTU#009. Please include all emails and analytical in the final C-141.

Ensure all clean earthen material is used in backfill.

Please submit a hardcopy to the District III office.

Thank you,

Vanessa Fields **Environmental Specialist** Oil Conservation Division Energy, Minerals, & Natural Resources 1000 Rio Brazos, Aztec, NM 87410 (505)334-6178 ext 119 Cell: (505) 419-0463

vanessa.fields@state.nm.us

From: vern@walsheng.net <vern@walsheng.net>

Sent: Monday, July 30, 2018 9:14 AM

To: Fields, Vanessa, EMNRD < Vanessa. Fields@state.nm.us>

Cc: 'Michael Dean' <michael.dean@walsheng.net>; 'John Jr.' <jdhampton@walsheng.net>; Smith, Cory, EMNRD

<Cory.Smith@state.nm.us> Subject: RE: Tacitus - NTU #9

Vanessa,

Per our discussion we are requesting that Tacitus be allowed to backfill the NTU #9 pipeline leak area per the new spill remediation guidelines. The latest samples are attached.

Thank you, Vern Andrews 505-320-1763 vern@walsheng.net From: Fields, Vanessa, EMNRD < Vanessa. Fields@state.nm.us>

Sent: Thursday, July 26, 2018 7:08 AM

To: vern@walsheng.net

Cc: 'Michael Dean' <michael.dean@walsheng.net>; 'John Jr.' <jdhampton@walsheng.net>; Smith, Cory, EMNRD

<<u>Cory.Smith@state.nm.us</u>> **Subject:** RE: Tacitus - NTU #9

Good morning Vern,

As discussed sidewall samples will need to be collected. Were samples collected?

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463

From: vern@walsheng.net < vern@walsheng.net >

Sent: Wednesday, July 25, 2018 3:07 PM

To: Fields, Vanessa, EMNRD < Vanessa. Fields@state.nm.us >

Cc: 'Michael Dean' < michael.dean@walsheng.net >; 'John Jr.' < jdhampton@walsheng.net >

Subject: Tacitus - NTU #9

vanessa.fields@state.nm.us

Vanessa,

We dug on down to 12 feet and resampled the bottom and the walls at the Navajo Tribal U #9 pipeline leak. The TPH cleaned up but as we discussed the chlorides are still high. The sample test results are attached.

We would like to propose that we close the site as is since the depth to groundwater is over 800 feet (nearest water well depth we could find was over 1600 feet deep).

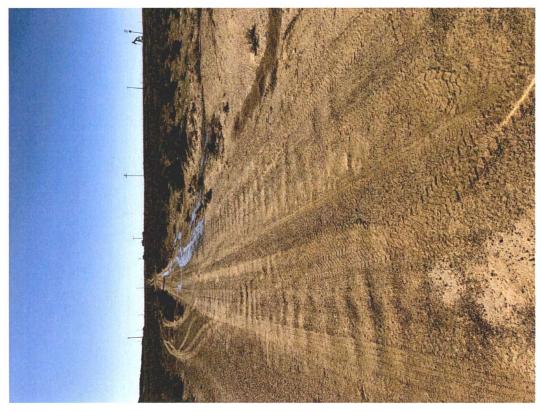
Please let us know how you want to proceed. The excavation site is fenced off and the current rains are slowly backfilling the hole.

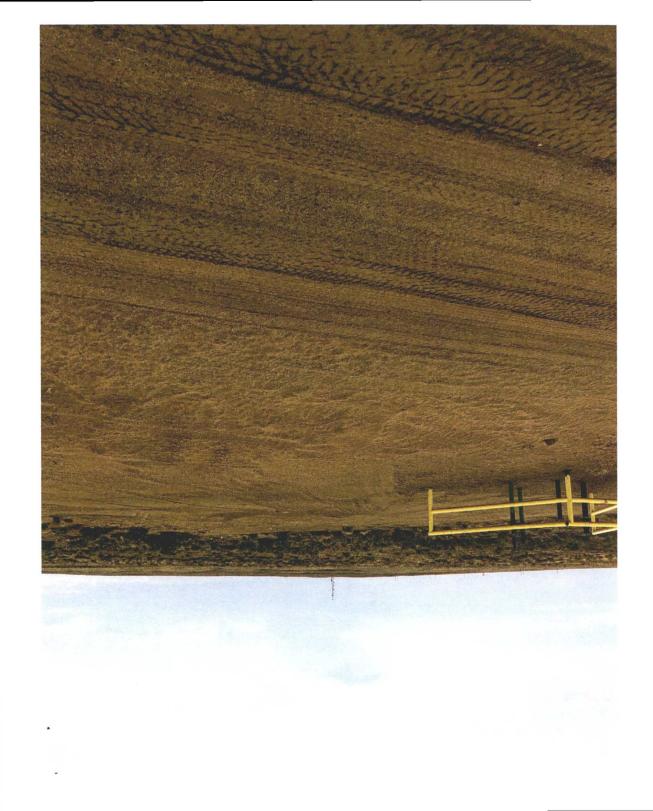
Thank you, Vern Andrews 505-320-1763 vern@walsheng.net

| È-mail Address: vern@walsheng.net | | Conditions of Approval: | Attached |
|-----------------------------------|---------------------|-------------------------|----------|
| Date: 8-26-18 | Phone: 505-320-1763 | | Attached |

^{*} Attach Additional Sheets If Necessary

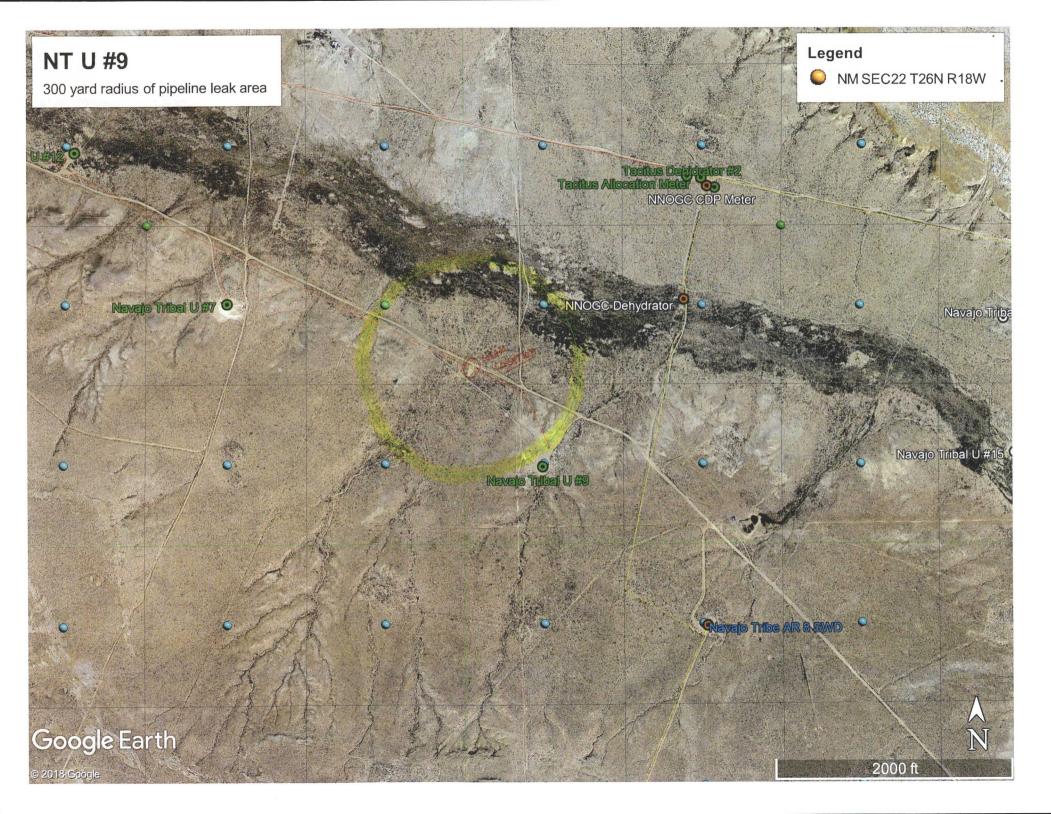


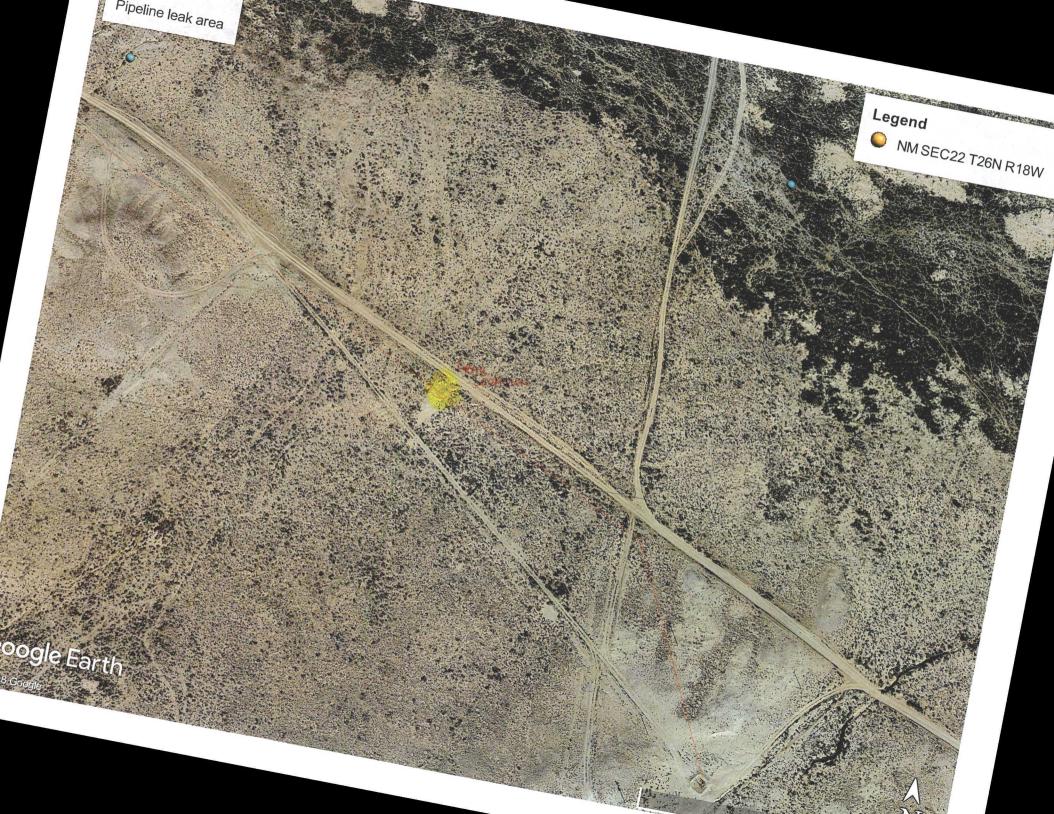














Analytical Report

Report Summary

Client: Tacitus, LLC

Chain Of Custody Number:

Samples Received: 7/19/2018 3:30:00PM

Job Number: 07173-0001

Work Order: P807033 Project Name/

Location: Navajo Tribe U-9 API# 30-045-20196

| Report | Reviewed | Ву: |
|--------|----------|-----|
| | | |

Walter Hinkman

Date:

7/24/18

Walter Hinchman, Laboratory Director

Date:

7/24/18



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, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.



Project Name:

Navajo Tribe U-9

STE. 1770, 700 6th Ave S.W. Calgary, Alberta CANADA, T2POT8 Project Number: Project Manager: 07173-0001

Vern Andrews

Reported: 24-Jul-18 15:23

Analyical Report for Samples

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| Bottom 12' U-9 | P807033-01A | Soil | 07/19/18 | 07/19/18 | Glass Jar, 4 oz. |
| Sides 12' U-9 | P807033-02A | Soil | 07/19/18 | 07/19/18 | Glass Jar, 4 oz. |

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Project Name:

Navajo Tribe U-9

STE. 1770, 700 6th Ave S.W.

Project Number:

07173-0001

Reported:

Calgary, Alberta CANADA, T2POT8

Project Manager:

Vern Andrews

24-Jul-18 15:23

Bottom 12' U-9 P807033-01 (Solid)

| | | Reporting | | | | | | | |
|---|--------|-----------|-------|----------|---------|----------|----------|--------------------|-------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| Volatile Organics by EPA 8021 | | | | | | | | | |
| Benzene | ND | 100 | ug/kg | 1 | 1829011 | 07/19/18 | 07/21/18 | EPA 8021B | |
| Toluene | ND | 100 | ug/kg | 1 | 1829011 | 07/19/18 | 07/21/18 | EPA 8021B | |
| Ethylbenzene | ND | 100 | ug/kg | 1 | 1829011 | 07/19/18 | 07/21/18 | EPA 8021B | |
| p,m-Xylene | ND | 200 | ug/kg | 1 | 1829011 | 07/19/18 | 07/21/18 | EPA 8021B | |
| o-Xylene | ND | 100 | ug/kg | 1 | 1829011 | 07/19/18 | 07/21/18 | EPA 8021B | |
| Total Xylenes | ND | 100 | ug/kg | 1 | 1829011 | 07/19/18 | 07/21/18 | EPA 8021B | |
| Total BTEX | ND | 100 | ug/kg | 1 | 1829011 | 07/19/18 | 07/21/18 | EPA 8021B | |
| Surrogate: 4-Bromochlorobenzene-PID | | 99.8 % | 50 | -150 | 1829011 | 07/19/18 | 07/21/18 | EPA 8021B | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1829011 | 07/19/18 | 07/21/18 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | 109 | 25.0 | mg/kg | Ī | 1829012 | 07/20/18 | 07/23/18 | EPA 8015D | |
| Oil Range Organics (C28-C40+) | ND | 50.0 | mg/kg | 1 | 1829012 | 07/20/18 | 07/23/18 | EPA 8015D | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 96.0 % | 50 | -150 | 1829011 | 07/19/18 | 07/21/18 | EPA 8015D | |
| Surrogate: n-Nonane | | 91.0 % | 50 | -200 | 1829012 | 07/20/18 | 07/23/18 | EPA 8015D | |
| Anions by 300.0/9056A | | | | | | | | | |
| Chloride | 5190 | 200 | mg/kg | 10 | 1830001 | 07/23/18 | 07/23/18 | EPA 300.0/9056A | |
| Total Petroleum Hydrocarbons by 418.1 | | | | | | | | | |
| Total Petroleum Hydrocarbons | 144 | 40.0 | mg/kg | 1 | 1829016 | 07/20/18 | 07/23/18 | EPA 418.1 | |

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Project Name:

Navajo Tribe U-9

STE. 1770, 700 6th Ave S.W.

Project Number:

07173-0001

Reported:

Calgary, Alberta CANADA, T2POT8

Project Manager:

Vern Andrews

24-Jul-18 15:23

Sides 12' U-9 P807033-02 (Solid)

| | | Reporting | 33 02 (50 | | | | | | |
|---|--------|-----------|-----------|----------|---------|----------|----------|--------------------|-------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| Volatile Organics by EPA 8021 | | | | | | | | | |
| Benzene | ND | 100 | ug/kg | 1 | 1829011 | 07/20/18 | 07/21/18 | EPA 8021B | |
| Toluene | ND | 100 | ug/kg | 1 | 1829011 | 07/20/18 | 07/21/18 | EPA 8021B | |
| Ethylbenzene | ND | 100 | ug/kg | 1 | 1829011 | 07/20/18 | 07/21/18 | EPA 8021B | |
| p,m-Xylene | ND | 200 | ug/kg | 1 | 1829011 | 07/20/18 | 07/21/18 | EPA 8021B | |
| o-Xylene | ND | 100 | ug/kg | 1 | 1829011 | 07/20/18 | 07/21/18 | EPA 8021B | |
| Total Xylenes | ND | 100 | ug/kg | 1 | 1829011 | 07/20/18 | 07/21/18 | EPA 8021B | |
| Total BTEX | ND | 100 | ug/kg | 1 | 1829011 | 07/20/18 | 07/21/18 | EPA 8021B | |
| Surrogate: 4-Bromochlorobenzene-PID | | 98.6 % | 50 | -150 | 1829011 | 07/20/18 | 07/21/18 | EPA 8021B | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1829011 | 07/20/18 | 07/21/18 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | 46.6 | 25.0 | mg/kg | 1 | 1829012 | 07/20/18 | 07/23/18 | EPA 8015D | |
| Oil Range Organics (C28-C40+) | ND | 50.0 | mg/kg | 1 | 1829012 | 07/20/18 | 07/23/18 | EPA 8015D | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 97.3 % | 50 | -150 | 1829011 | 07/20/18 | 07/21/18 | EPA 8015D | |
| Surrogate: n-Nonane | | 107 % | 50 | -200 | 1829012 | 07/20/18 | 07/23/18 | EPA 8015D | |
| Anions by 300.0/9056A | | | | | | | | | |
| Chloride | 11200 | 200 | mg/kg | 10 | 1830001 | 07/23/18 | 07/23/18 | EPA 300.0/9056A | |
| Total Petroleum Hydrocarbons by 418.1 | | | | | | | | | |
| Total Petroleum Hydrocarbons | 180 | 40.0 | mg/kg | 1 | 1829016 | 07/20/18 | 07/23/18 | EPA 418.1 | |

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Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301



Project Name:

Navajo Tribe U-9

Spike

Source

STE. 1770, 700 6th Ave S.W. Calgary, Alberta CANADA, T2POT8 Project Number: Project Manager:

Reporting

07173-0001 Vern Andrews

Reported: 24-Jul-18 15:23

RPD

%REC

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

| | | reporting | | Spire | Bource | | MICLE | | ICI D | |
|--|--------|---------------|-------|-------------|-------------|------------|----------|------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch 1829011 - Purge and Trap EPA 5030A | | | | | | | | | | |
| Blank (1829011-BLK1) | | | | Prepared: 1 | 19-Jul-18 A | nalyzed: 2 | 0-Jul-18 | | | |
| Benzene | ND | 100 | ug/kg | | | | | | | |
| Гоluene | ND | 100 | 111 | | | | | | | |
| Ethylbenzene | ND | 100 | 71 | | | | | | | |
| o,m-Xylene | ND | 200 | 21 | | | | | | | |
| p-Xylene | ND | 100 | и | | | | | | | |
| Total Xylenes | ND | 100 | 21 | | | | | | | |
| Total BTEX | ND | 100 | " | | | | | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 7860 | | " | 8000 | | 98.3 | 50-150 | | | |
| LCS (1829011-BS1) | | | | Prepared: 1 | 19-Jul-18 A | nalyzed: 2 | 0-Jul-18 | | | |
| Benzene | 4750 | 100 | ug/kg | 5000 | | 94.9 | 70-130 | | | |
| Toluene | 4820 | 100 | " | 5000 | | 96.4 | 70-130 | | | |
| Ethylbenzene | 4880 | 100 | 11 | 5000 | | 97.7 | 70-130 | | | |
| o,m-Xylene | 9470 | 200 | " | 10000 | | 94.7 | 70-130 | | | |
| p-Xylene | 4870 | 100 | | 5000 | | 97.4 | 70-130 | | | |
| Total Xylenes | 14300 | 100 | n | 15000 | | 95.6 | 70-130 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 7940 | | " | 8000 | | 99.2 | 50-150 | | | |
| Matrix Spike (1829011-MS1) | Sou | rce: P807025- | 02 | Prepared: 1 | 9-Jul-18 A | nalyzed: 2 | 0-Jul-18 | | | |
| Benzene | 4430 | 100 | ug/kg | 5000 | ND | 88.6 | 54.3-133 | | | |
| Toluene | 4500 | 100 | " | 5000 | ND | 90.0 | 61.4-130 | | | |
| Ethylbenzene | 4540 | 100 | ** | 5000 | ND | 90.8 | 61.4-133 | | | |
| o,m-Xylene | 8820 | 200 | ** | 10000 | ND | 88.3 | 63.3-131 | | | |
| o-Xylene | 4580 | 100 | " | 5000 | ND | 91.7 | 63.3-131 | | | |
| Total Xylenes | 13400 | 100 | 21 | 15000 | ND | 89.4 | 63.3-131 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 7950 | | " | 8000 | | 99.3 | 50-150 | | | |
| Matrix Spike Dup (1829011-MSD1) | Sou | rce: P807025- | 02 | Prepared: 1 | 9-Jul-18 A | nalyzed: 2 | 0-Jul-18 | | | |
| Benzene | 5320 | 100 | ug/kg | 5000 | ND | 106 | 54.3-133 | 18.3 | 20 | |
| Toluene | 5400 | 100 | " | 5000 | ND | 108 | 61.4-130 | 18.3 | 20 | |
| Ethylbenzene | 5470 | 100 | " | 5000 | ND | 109 | 61.4-133 | 18.6 | 20 | |
| o,m-Xylene | 10600 | 200 | 11 | 10000 | ND | 106 | 63.3-131 | 17.8 | 20 | |

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100

100

5420

16000

7920

5796 US Highway 64, Farmington, NM 87401

Surrogate: 4-Bromochlorobenzene-PID

o-Xylene

Total Xylenes

Ph (505) 632-0615 Fx (505) 632-1865

5000

15000

8000

ND

ND

108

107

99.0

63.3-131

63.3-131

50-150

16.8

17.5

20

20

envirotech-inc.com

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (970) 259-0615 Fr (800) 362-1879

laboratory@envirotech-inc.com



Project Name:

Navajo Tribe U-9

STE. 1770, 700 6th Ave S.W.

Calgary, Alberta CANADA, T2POT8

Project Number: Project Manager: 07173-0001

Vern Andrews

Reported:

24-Jul-18 15:23

Total Petroleum Hydrocarbons by 418.1 - Quality Control

Envirotech Analytical Laboratory

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|--|--------|---------------|-------|-------------|--------------------|--------------|----------|------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch 1829016 - 418 Freon Solid Extraction | | | | | | | | | | |
| Blank (1829016-BLK1) | | | | Prepared: 2 | 20-Jul-18 <i>A</i> | Analyzed: 23 | 3-Jul-18 | | | |
| Total Petroleum Hydrocarbons | ND | 40.0 | mg/kg | | | | | | | |
| LCS (1829016-BS1) | | | | Prepared: 2 | 20-Jul-18 <i>A</i> | Analyzed: 23 | 3-Jul-18 | | | |
| Total Petroleum Hydrocarbons | 918 | 40.0 | mg/kg | 1000 | | 91.8 | 80-120 | | | |
| Matrix Spike (1829016-MS1) | Sou | rce: P807033- | 02 | Prepared: 2 | 20-Jul-18 A | Analyzed: 23 | 3-Jul-18 | | | |
| Total Petroleum Hydrocarbons | 988 | 40.0 | mg/kg | 1000 | 180 | 80.8 | 70-130 | | | |
| Matrix Spike Dup (1829016-MSD1) | Sou | rce: P807033- | 02 | Prepared: 2 | 20-Jul-18 <i>A</i> | Analyzed: 23 | 3-Jul-18 | | | |
| Total Petroleum Hydrocarbons | 1010 | 40.0 | mg/kg | 1000 | 180 | 83.0 | 70-130 | 2.20 | 30 | |

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Project Name:

Navajo Tribe U-9

STE. 1770, 700 6th Ave S.W.

Project Number:

07173-0001

Reported:

Calgary, Alberta CANADA, T2POT8

Project Manager:

Vern Andrews

24-Jul-18 15:23

Notes and Definitions

SPK1

The spike recovery is outside of quality control limits.

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

RPD

Relative Percent Difference

**

Methods marked with ** are non-accredited methods.

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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 boratory with this COC. The liability of the laboratory is limited to the amount paid for on the report. Analytical Laboratory

5796 US Highway 64, Farmington, HM 87-101

Ph (505) 632-0615 Fx (505) 632-1865

Three St. - 65 Mercado Street, Suite 115,

(0.81301

Ph (970) 259-0615 Fr (800) 362-1379

of

ample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other ______ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

lote: 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

boratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

S796 US Highway 64, Farmington, NM 87401 Ph (505) 632-0615 Fx (505) 632-1865 ensirotech-lockor

Analytical Laboratory Ihree Springs • 65 Mercado Street, Suite 115, Durango, (O 81301) Ph (970) 259-0615 Fr (800) 362-1879 laboratory in individual participations of the second participation of the second part