

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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party - Hallador Petroleum LLP	OGRID
Contact Name - Vern Andrews	Contact Telephone 505-320-1763
Contact email - vern@walsheng.net	Incident # NCS1900849847
Contact mailing address 7415 E. Main St. Farmington NM 87402	

Location of Release Source

Latitude 36.97356° _____ Longitude 107.97335° _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name - Horton # 9	Site Type Oil and Gas
Date Release Discovered 12/3/2018	API# (if applicable) 30-045-22671

Unit Letter	Section	Township	Range	County
G	22	32N	11W	San Juan

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: FEDERAL _____)

NMOC

APR 01 2018

DISTRICT III

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) Unknown Amount	Volume Recovered (bbls) - 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) Unknown Amount	Volume Recovered (bbls) - 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls) Unknown Amount	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release- This was a historical release was probably caused by a produced water pit overflowed or something to that nature. The release was discovered from a soil analysis while closing the below grade produced water pit. With this being a historical release, the amount of crude oil & produced water is unknown.

45

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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?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? 	

Initial Response

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

<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:
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>Vern Andrews</u> Title: <u>Production Superintendent</u> Signature: _____ Date: _____ email: <u>vern@walsheng.net</u> Telephone: <u>505-327-4892</u>
<u>OCD Only</u> Received by: _____ Date: _____

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
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.

State of New Mexico
Oil Conservation Division

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Printed Name: VERN ANDREWSTitle: PRODUCTION MANAGERSignature: Vern O. AndrewsDate: 3/28/19email: vern@walsheng.netTelephone: 505-327-4892**OCD Only**

Received by: _____

Date: _____

Incident ID	
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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.

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: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

NO REMEDIATION PLAN. SOIL HAULCD TO IRI LANDFARM

Incident ID	
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Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate OCD 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: VERN ANDREWS Title: PRODUCTION MANAGER
 Signature: Vern O. Andrews Date: 3/28/19
 email: vern@walsheng.net Telephone: 505-327-4892

OCD Only

Received by: OCD Date: 4/1/19

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: [Signature] Date: 4/9/19
 Printed Name: Cory Title: Environmental Spec

Notes

Hallador BGT Closure Notes for Horton 2A,2B,2C,7 & 9 Well Locations.

11-27-18 – Notified Cory Smith with NMOCD of intent to remove multiple BGT's and sample for closure.

11-30-18 – Removed BGT's and sampled per NMOCD rules. Sample results received on 12-5-18 showed the Horton #9 TPH to be >100 ppm so Cory Smith was notified that the BGT sample did not pass. Initial C-141 for Horton #9 filled out and submitted to NMOCD. (Attached). Horton 2A,2B,2C,7 samples tested below 100 ppm and request for closure submitted to NMOCD.

12-17-18 – Additional excavation on Horton #9 BGT completed, C-138 filled out and submitted to IEI Landfarm, estimated 10 yards. Horton 2A,2B,2C,7 BGT holes backfilled and steel water tanks reset, fences replaced and wells returned to production.

12-20-18 – Michael Dean called Cory Smith with NMOCD and emailed that 2nd sampling desired and 8:30am on 12-21-18 agreed upon.

12-21-18 – Michael Dean & Cory Smith met on location and sampled walls and bottom of BGT excavation, composite samples were taken. Samples submitted to Envirotech Labs for analysis.

1-9-19 – Horton #9 soil sample analysis received. Analysis shows TPH<100ppm, Cory Smith with NMOCD notified that samples are below regulatory limits.

SAMPLE LOCATIONS

1ST SAMPLES - FAILED ANALYSIS

2ND SAMPLES - OK - < 100 PPM

NORTH



Hallador Petroleum

Horton # 9

30-045-22671

G-22-T32N-R11W

San Juan, NM

N36.97356 W107.97335

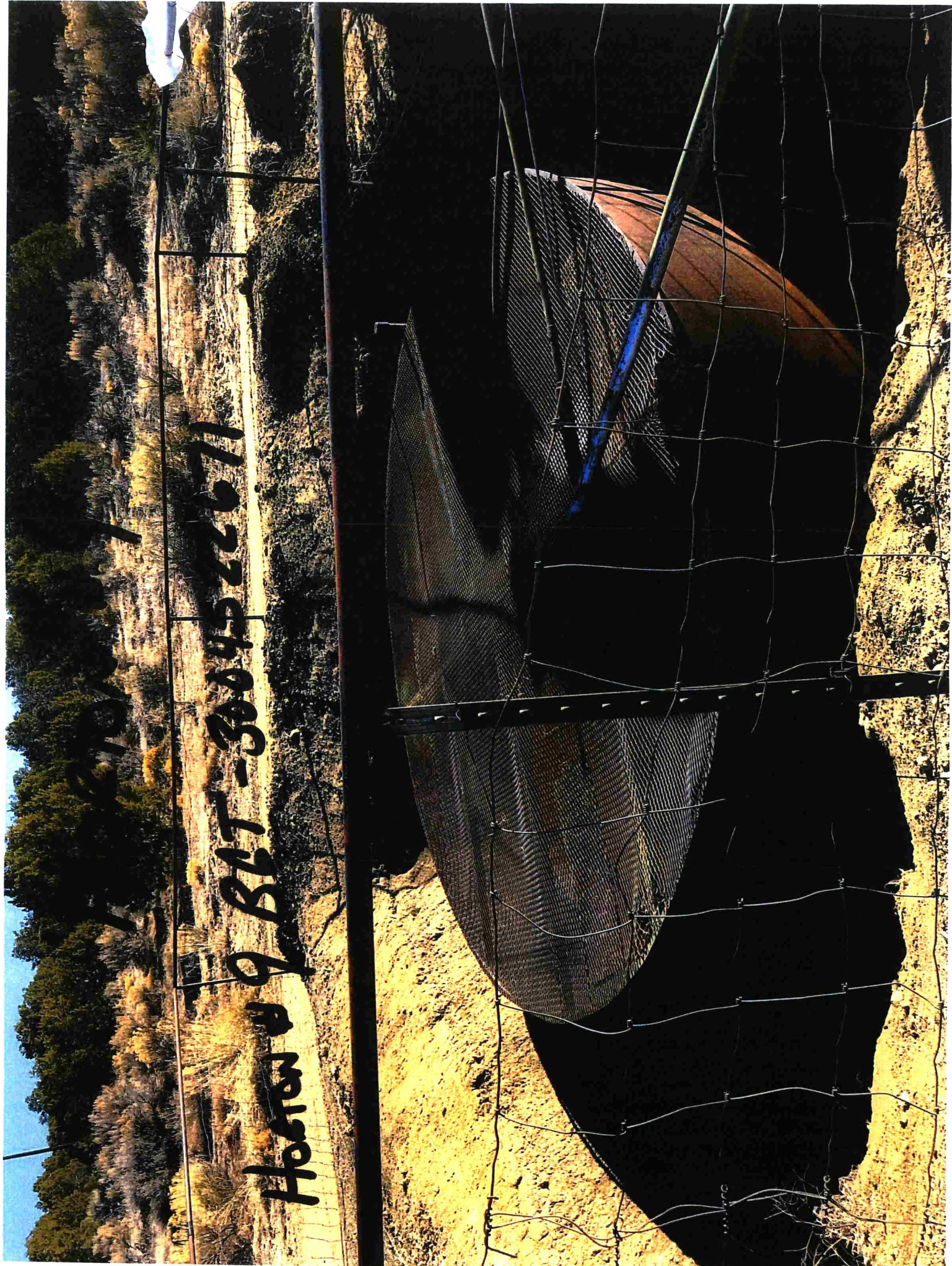
Below Grade Tank Location



Compressor

2 Phase Separator

WH



11224522671
Horton #9 B&T-3004522671

From: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Sent: Monday, March 18, 2019 10:01 AM
To: 'Tim Lovseth'; Fields, Vanessa, EMNRD
Cc: Powell, Brandon, EMNRD; vern@walsheng.net; 'John Hampton Jr.'; 'Michael Dean'
Subject: RE: [EXT] RE: Hallador Horton #9 assigned incident# ncs1900849847

Follow Up Flag: Follow up
Flag Status: Flagged

Tim,

OCD has not received the Final C-141 for the release at the Horton #9

The release was discovered on 12/3/2018 the Closure report was due on 3/3/19.

Please submit a final C-141 with all the required attachments per 19.15.29.12 NMAC. No later then 4/1/19

NCS1900849847 HORTON #9 @ 30-045-22671

General Incident Information

Site Name:	HORTON #9
Well:	[30-045-22671] HORTON #009
Facility:	
Operator:	[12672] HALLADOR PETROLEUM LLP
Status:	Closure Not Approved
Type:	Release Other
District:	Aztec
Incident Location:	G-20-32N-11W Lot 0 FNL 0 FEL
Lat/Long:	36.97356,-107.97335 NAD83

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

From: Smith, Cory, EMNRD

Sent: Wednesday, January 9, 2019 7:06 AM

To: 'vern@walsheng.net' <vern@walsheng.net>; 'Michael Dean' <michael.dean@walsheng.net>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; 'John Hampton Jr.' <jdhampton@walsheng.net>

Cc: Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>

Subject: RE: [EXT] RE: Hallador Horton #9 assigned incident# ncs1900849847

Vern,

These are assigned incident # because a release occurred at the location. Once Walsh/Hallador submits a final C-141 with all the sample data and required information per 19.15.29 NMAC these incident will be closed with approval.

If you have any other questions please let me know.

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

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

Sent: Tuesday, January 8, 2019 4:02 PM

To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; 'Michael Dean' <michael.dean@walsheng.net>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; 'John Hampton Jr.' <jdhampton@walsheng.net>

Cc: Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>

Subject: [EXT] RE: Hallador Horton #9 assigned incident# ncs1900849847

Cory why are these assigned an incident number with closure not approved? Is this due to exceeding the 100ppm TPH limits per the analysis?

Thanks for the clarification help,

Thank you,

Vern Andrews

505-320-1763

vern@walsheng.net

From: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>

Sent: Tuesday, January 8, 2019 1:55 PM

To: Michael Dean <michael.dean@walsheng.net>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; 'Vern Andrews' <vern@walsheng.net>; 'John Hampton Jr.' <jdhampton@walsheng.net>

Cc: Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>

Subject: Hallador Horton #9 assigned incident# ncs1900849847

All,

OCD has received the initial C-141 for the release an incident# has been assigned to the release (Highlighted below)
please use this for all future communication/submittals

NCS1900849847 HORTON #9 @ 30-045-22671

General Incident Information

Site Name: HORTON #9
Well: [30-045-22671] HORTON #009
Facility:
Operator: [12672] HALLADOR PETROLEUM LLP
Status: Closure Not Approved
Type: Release Other
District: Aztec

Incident Location: G-20-32N-11W Lot 0 FNL 0 FEL
Lat/Long: 36.97356,-107.97335 NAD83

If you have any additional questions please let me know.

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

From: Smith, Cory, EMNRD
Sent: Thursday, December 20, 2018 10:02 AM
To: 'Michael Dean' <michael.dean@walsheng.net>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; 'Vern Andrews' <vern@walsheng.net>; 'John Hampton Jr.' <jdhampton@walsheng.net>
Cc: Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>
Subject: RE: [EXT] RE: Hallador BGT's

Michael,

Tomorrow at 8:30 AM works for me if this is on federal land please make sure you notify the land owner of the sampling event.

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

From: Michael Dean <michael.dean@walsheng.net>
Sent: Thursday, December 20, 2018 10:01 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; 'Vern Andrews' <vern@walsheng.net>; 'John Hampton Jr.' <jdhampton@walsheng.net>
Cc: Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>
Subject: RE: [EXT] RE: Hallador BGT's

That works for me 8:30 am work for you.

From: Smith, Cory, EMNRD [<mailto:Cory.Smith@state.nm.us>]
Sent: Thursday, December 20, 2018 9:36 AM
To: Michael Dean; Fields, Vanessa, EMNRD; Vern Andrews; 'John Hampton Jr.'
Cc: Powell, Brandon, EMNRD
Subject: RE: [EXT] RE: Hallador BGT's

Michael,

OCD Requires 2 business day notification for release confirmation sampling. As I mentioned on the phone earlier it was a possibility that I could make it for sampling today however due to the sampling times and distance between the sites I will not be able to accommodate your request for sampling day. The earliest I can sampling is first thing tomorrow morning would that work for you?

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

From: Michael Dean <michael.dean@walsheng.net>
Sent: Thursday, December 20, 2018 8:22 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; Vern Andrews <vern@walsheng.net>; 'John Hampton Jr.' <jdhampton@walsheng.net>
Subject: [EXT] RE: Hallador BGT's

Cory

We have got the Horton #9 listed below ready for the second sampling after the initial samples did not meet the closer numbers could we set a time for this afternoon please.

Thanks!

From: Michael Dean [<mailto:michael.dean@walsheng.net>]
Sent: Tuesday, November 27, 2018 8:13 AM
To: 'Smith, Cory, EMNRD'; 'Fields, Vanessa, EMNRD'; Vern Andrews; 'John Hampton Jr.'
Subject: Hallador BGT's

Horton 2A API (30-045-23392)

Horton 2C API (30-045-31435)

Horton 7 API (30-045-21362)

Horton 9 API (30-045-22671)

Horton 2B API (30-045-30160)

I would like to get these pits pulled and sampled Friday November 30, 2018 at 9:00 am on location at the Horton 2B.

Michael L. Dean

Walsh Engineering

505-860-0481

From: Timothy Cain <tcain@envirotech-inc.com>
Sent: Wednesday, January 9, 2019 3:45 PM
To: michael.dean@walsheng.net; Vern Andrews
Cc: Walter Hinchman
Subject: Hallador, Below Grade Pit / Horton 9, P812047
Attachments: P812047 Envirotech2_v15 FINAL 01 09 19 1542.pdf

Mike and Vern,

Thank you for Choosing Envirotech Analytical Laboratory. Attached is the final report for the "Below Grade Pit / Horton 9" project. Let us know if you have any questions.

Envirotech Analytical Laboratory welcomes your feedback. Please visit the survey site below to let us know how we are doing and how we can better serve you.

<https://www.surveymonkey.com/r/D5GZ9P5>

Tim Cain

Envirotech Analytical Laboratory
Chemist
Office 505-632-0615
tcain@envirotech-inc.com
5796 U.S. Highway 64, Farmington NM 87401



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"You never change things by fighting the existing reality. To change something, build a new model that makes the existing model obsolete." – Richard Buckminster Fuller

FINAL SAMPLING.
OK TO CLOSE
VA. 1/9/19

Analytical Report

Report Summary

Client: Hallador

Chain Of Custody Number:

Samples Received: 12/21/2018 12:45:00PM

Job Number: 18010-0004

Work Order: P812047 Project Name/Location:

Below Grade Pit/ Horton 9

API# 30-045-22671

NCS 1900849847

Report Reviewed By:



Date: 1/9/19

Walter Hinchman, Laboratory Director



Date: 1/9/19

Tim Cain, Project Manager



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.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.
Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

Hallador
1660 Lincoln St Suite 2700
Denver CO, 80264

Project Name: Below Grade Pit/ Horton 9 API#30-045-22671
Project Number: 18010-0004
Project Manager: Micheal I. Dean

Reported:
01/09/19 15:42

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Sides	P812047-01A	Soil	12/21/18	12/21/18	Glass Jar, 4 oz.
Bottom	P812047-02A	Soil	12/21/18	12/21/18	Glass Jar, 4 oz.

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Hallador
1660 Lincoln St Suite 2700
Denver CO, 80264

Project Name: Below Grade Pit/ Horton 9 API#30-045-22671
Project Number: 18010-0004
Project Manager: Micheal I. Dean

Reported:
01/09/19 15:42

Sides

P812047-01 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Toluene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %		50-150	1901002	01/02/19	01/03/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1901002	01/02/19	01/03/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1901008	01/02/19	01/07/19	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1901008	01/02/19	01/08/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %		50-150	1901002	01/02/19	01/03/19	EPA 8015D	
Surrogate: n-Nonane		115 %		50-200	1901008	01/02/19	01/08/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/L	10	1851030	12/21/18	12/21/18	EPA 300.0/9056A	

PASS

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Hallador
 1660 Lincoln St Suite 2700
 Denver CO, 80264

 Project Name: Below Grade Pit/ Horton 9 API#30-045-22671
 Project Number: 18010-0004
 Project Manager: Micheal I. Dean

 Reported:
 01/09/19 15:42

Bottom
P812047-02 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<u>Volatile Organics by EPA 8021</u>									
Benzene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Toluene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %		50-150	1901002	01/02/19	01/03/19	EPA 8021B	
<u>Nonhalogenated Organics by 8015</u>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1901002	01/02/19	01/03/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1901008	01/02/19	01/07/19	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1901008	01/02/19	01/07/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		108 %		50-150	1901002	01/02/19	01/03/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		113 %		50-200	1901008	01/02/19	01/07/19	EPA 8015D	
<u>Anions by 300.0/9056A</u>									
Chloride	ND	20.0	mg/L	10	1851030	12/21/18	12/21/18	EPA 300.0/9056A	

PASS

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Hallador
1660 Lincoln St Suite 2700
Denver CO, 80264

Project Name: Below Grade Pit/ Horton 9 API#30-045-22671
Project Number: 18010-0004
Project Manager: Micheal I. Dean

Reported:
01/09/19 15:42

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 1901002 - Purge and Trap EPA 5030A

Blank (1901002-BLK1)

Prepared: 01/02/19 0 Analyzed: 01/02/19 1

Benzene	ND	100	ug/kg							
Toluene	ND	100	"							
Ethylbenzene	ND	100	"							
p,m-Xylene	ND	200	"							
o-Xylene	ND	100	"							
Total Xylenes	ND	100	"							
Total BTEX	ND	100	"							
Surrogate: 4-Bromochlorobenzene-PID	8140		"	8000		102	50-150			

LCS (1901002-BS1)

Prepared: 01/02/19 0 Analyzed: 01/02/19 2

Benzene	4180	100	ug/kg	5000		83.6	70-130			
Toluene	4190	100	"	5000		83.8	70-130			
Ethylbenzene	4220	100	"	5000		84.3	70-130			
p,m-Xylene	8690	200	"	10000		86.9	70-130			
o-Xylene	4290	100	"	5000		85.7	70-130			
Total Xylenes	13000	100	"	15000		86.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8250		"	8000		103	50-150			

Matrix Spike (1901002-MS1)

Source: P812051-01

Prepared: 01/02/19 0 Analyzed: 01/02/19 2

Benzene	4920	100	ug/kg	5000	ND	98.5	54.3-133			
Toluene	4950	100	"	5000	ND	99.0	61.4-130			
Ethylbenzene	5000	100	"	5000	ND	100	61.4-133			
p,m-Xylene	10200	200	"	10000	ND	102	63.3-131			
o-Xylene	4970	100	"	5000	ND	99.3	63.3-131			
Total Xylenes	15200	100	"	15000	ND	101	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8230		"	8000		103	50-150			

Matrix Spike Dup (1901002-MSD1)

Source: P812051-01

Prepared: 01/02/19 0 Analyzed: 01/02/19 2

Benzene	5240	100	ug/kg	5000	ND	105	54.3-133	6.21	20	
Toluene	5240	100	"	5000	ND	105	61.4-130	5.71	20	
Ethylbenzene	5280	100	"	5000	ND	106	61.4-133	5.55	20	
p,m-Xylene	10800	200	"	10000	ND	108	63.3-131	5.45	20	
o-Xylene	5240	100	"	5000	ND	105	63.3-131	5.32	20	
Total Xylenes	16000	100	"	15000	ND	107	63.3-131	5.41	20	
Surrogate: 4-Bromochlorobenzene-PID	8210		"	8000		103	50-150			

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

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laboratory.envirotech-inc.com



Hallador
1660 Lincoln St Suite 2700
Denver CO, 80264

Project Name: Below Grade Pit/ Horton 9
Project Number: 18010-0004
Project Manager: Micheal I. Dean

Reported:
01/09/19 15:42

Nonhalogenated Organics by 8015 - 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 1901002 - Purge and Trap EPA 5030A

Blank (1901002-BLK1)

Prepared: 01/02/19 0 Analyzed: 01/02/19 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.77		"	8.00		110	50-150			

LCS (1901002-BS2)

Prepared: 01/02/19 0 Analyzed: 01/02/19 2

Gasoline Range Organics (C6-C10)	43.1	20.0	mg/kg	50.0		86.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.12		"	8.00		114	50-150			

Matrix Spike (1901002-MS2)

Source: P812051-01

Prepared: 01/02/19 0 Analyzed: 01/02/19 2

Gasoline Range Organics (C6-C10)	44.2	20.0	mg/kg	50.0	ND	88.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.71		"	8.00		109	50-150			

Matrix Spike Dup (1901002-MSD2)

Source: P812051-01

Prepared: 01/02/19 0 Analyzed: 01/02/19 2

Gasoline Range Organics (C6-C10)	48.8	20.0	mg/kg	50.0	ND	97.6	70-130	9.94	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.83		"	8.00		110	50-150			

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Hallador
 1660 Lincoln St Suite 2700
 Denver CO, 80264

 Project Name: Below Grade Pit/ Horton 9
 Project Number: 18010-0004
 Project Manager: Micheal I. Dean

 Reported:
 01/09/19 15:42

Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

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

Batch 1901008 - DRO Extraction EPA 3570
Blank (1901008-BLK1)

Prepared: 01/02/19 1 Analyzed: 01/08/19 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	65.0		"	50.0		130	50-200			

LCS (1901008-BS1)

Prepared: 01/02/19 1 Analyzed: 01/07/19 2

Diesel Range Organics (C10-C28)	460	25.0	mg/kg	500		92.1	38-132			
Surrogate: n-Nonane	56.9		"	50.0		114	50-200			

Matrix Spike (1901008-MS1)

Source: P812047-01

Prepared: 01/02/19 1 Analyzed: 01/07/19 2

Diesel Range Organics (C10-C28)	424	25.0	mg/kg	500	ND	84.7	38-132			
Surrogate: n-Nonane	55.8		"	50.0		112	50-200			

Matrix Spike Dup (1901008-MSD1)

Source: P812047-01

Prepared: 01/02/19 1 Analyzed: 01/07/19 2

Diesel Range Organics (C10-C28)	431	25.0	mg/kg	500	ND	86.1	38-132	1.66	20	
Surrogate: n-Nonane	55.9		"	50.0		112	50-200			

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Hallador 1660 Lincoln St Suite 2700 Denver CO, 80264	Project Name: Below Grade Pit/ Horton 9 Project Number: 18010-0004 Project Manager: Micheal I. Dean	Reported: 01/09/19 15:42
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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
Batch 1851030 - Anion Extraction EPA 300.0/9056A										
Blank (1851030-BLK1)				Prepared & Analyzed: 12/21/18 1						
Chloride	ND	20.0	mg/L							
LCS (1851030-BS1)				Prepared & Analyzed: 12/21/18 1						
Chloride	254	20.0	mg/L	250		102	90-110			
Matrix Spike (1851030-MS1)				Source: P812047-01		Prepared & Analyzed: 12/21/18 1				
Chloride	259	20.0	mg/L	250	ND	104	80-120			
Matrix Spike Dup (1851030-MSD1)				Source: P812047-01		Prepared & Analyzed: 12/21/18 1				
Chloride	260	20.0	mg/L	250	ND	104	80-120	0.273	20	

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Hallador
1660 Lincoln St Suite 2700
Denver CO, 80264

Project Name: Below Grade Pit/ Horton 9
Project Number: 18010-0004
Project Manager: Micheal I. Dean

Reported:
01/09/19 15:42

Notes and Definitions

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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laboratory@envirotech-inc.com

Additional Instructions:

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.

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

vern@walsheng.net

From: Michael Dean <michael.dean@walsheng.net>
Sent: Monday, January 21, 2019 3:03 PM
To: Vern Andrews
Subject: C-138 Horton 9
Attachments: 20181217162227946.pdf

-----Original Message-----

From: trucklogin@industrialecosystems.com
[mailto:trucklogin@industrialecosystems.com]
Sent: Monday, January 21, 2019 3:01 PM
To: michael.dean@walsheng.net
Subject: FW: ricoh scanner

Thank you,

#49 CR 3150
Aztec, NM 87410
Phone: (505) 632-1782
Fax: (505) 632-1876

C-138

-----Original Message-----

From: walsh@walsheng.net <walsh@walsheng.net>
Sent: Monday, December 17, 2018 2:22 PM
To: IEI WASTE DISPOSAL <trucklogin@industrialecosystems.com>; Michael Dean <michael.dean@walsheng.net>
Subject: ricoh scanner

This E-mail was sent from "Ricohback" (MP C3003).

Scan Date: 12.17.2018 16:22:27 (-0500)
Queries to: walsh@walsheng.net

This email has been checked for viruses by AVG.
<https://www.avg.com>

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

Form C-138
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: Hallador Petroleum Suite 2700, 1660 Lincoln Street, Denver Co. 80264
2. Originating Site: Horton 9 Sec 22 letter G T32N R11W
3. Location of Material (Street Address, City, State or ULSTR): Sec 22 letter G T32N R11W
4. Source and Description of Waste: Material cleaned out of Production Equipment Produced oil and water from a leaking production pit Estimated Volume <u>10</u> yd ³ / bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd ³ / bbls
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS I, <u>Michael Dean</u> , representative or authorized agent for <u>Hallador Petroleum</u> do hereby PRINT & SIGN NAME COMPANY NAME 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) <input checked="" type="checkbox"/> RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. <u>Operator Use Only: Waste Acceptance Frequency</u> <input type="checkbox"/> Monthly <input type="checkbox"/> Weekly <input checked="" type="checkbox"/> Per Load <input type="checkbox"/> 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 in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items) <input type="checkbox"/> MSDS Information <input type="checkbox"/> RCRA Hazardous Waste Analysis <input type="checkbox"/> Process Knowledge <input type="checkbox"/> Other (Provide description in Box 4) GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS I, <u>Michael Dean</u> , representative for <u>Hallador Petroleum</u> authorize JFJ Landfarm to Generator Signature complete the required testing/sign the Generator Waste Testing Certification. I, _____, representative for _____ do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.
5. Transporter: 3D Services

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: **JFJ Landfarm c/o Industrial Ecosystems, Inc. / NM 01-0010B**

Address of Facility: # **49 CR 3150 Aztec, NM 87410**

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☐ **APPROVED**

☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: _____

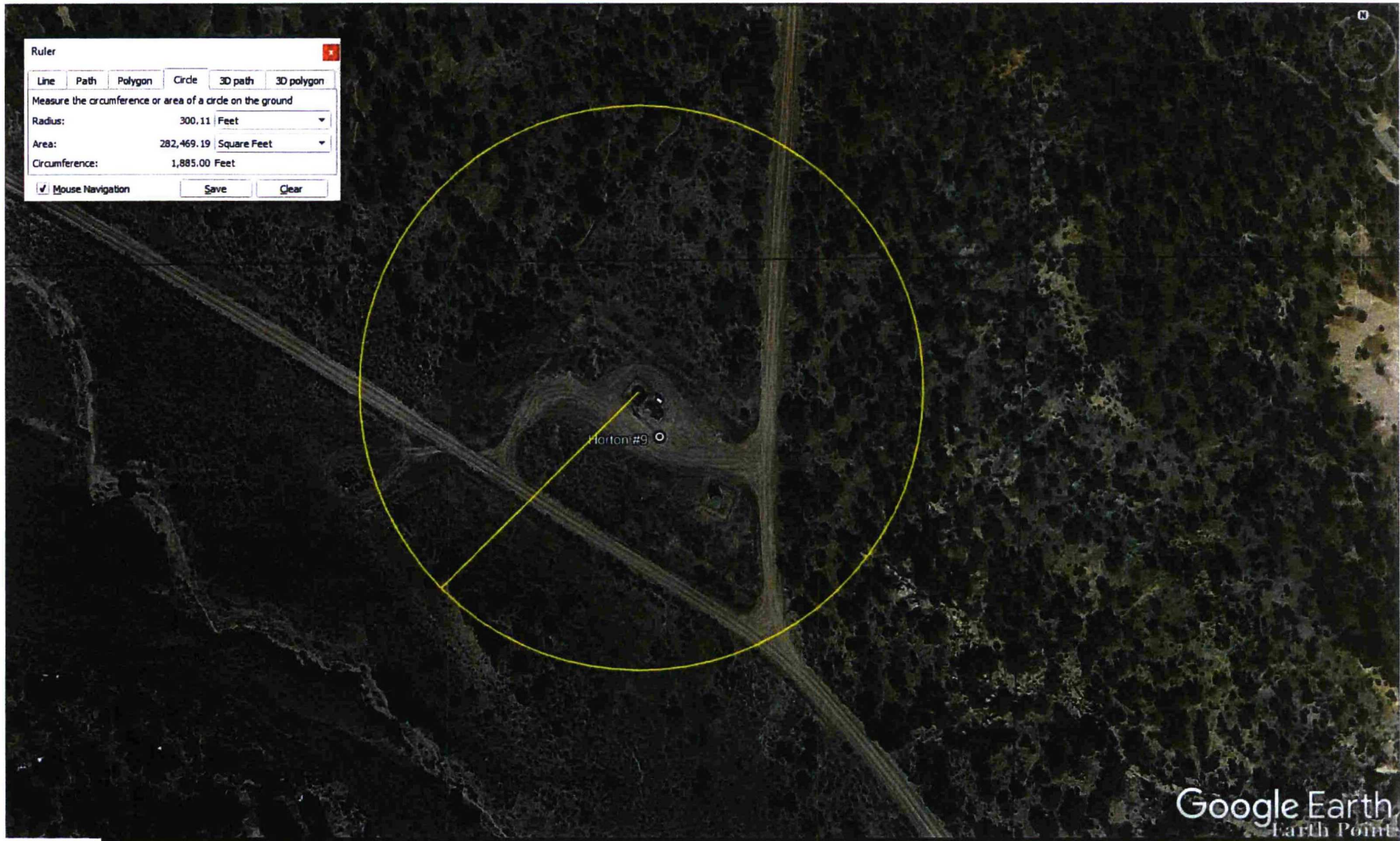
TITLE: _____

DATE: _____

SIGNATURE: _____
Surface Waste Management Facility Authorized Agent

TELEPHONE NO.: _____

DISTANCE TO ARROYO > 300'





New Mexico Office of the State Engineer **Water Column/Average Depth to Water**

No records found.

Basin/County Search:

Basin: San Juan

County: San Juan

Subbasin: Animas River

PLSS Search:

Q64: NE

Q16: SW

Q4: NE

Section(s): 22

Township: 32N

Range: 11W

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Hallador Petroleum LLP	OGRID
Contact Name Vern Andrews	Contact Telephone 505-320-1763
Contact email vern@walsheng.net	Incident # (assigned by OCD)
Contact mailing address 7415 E. Main St. Farmington NM 87402	

Location of Release Source

Latitude 36.97356° Longitude 107.97335°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Horton # 9	Site Type Oil and Gas
Date Release Discovered 12/3/2018	API# (if applicable) 30-045-22671

Unit Letter	Section	Township	Range	County
G	22	32N	11W	San Juan

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

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

Cause of Release- This was a historical release was probably caused by a produced water pit overflowed or something to that nature. The release was discovered from a soil analysis while closing the below grade produced water pit. With this being a historical release, the amount of condensate/produced water is unknown.

MAILED
12-26-18 mw

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? 	

Initial Response

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

<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: 	
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>Malia Villers</u>	Title: <u>Production Tech.</u>
Signature: <u>Malia Villers</u>	Date: <u>12/21/2018</u>
email: <u>malia@walsheng.net</u>	Telephone: <u>505-327-4892</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

INITIAL SAMPLES -
HORTON 9 - NO PASS
HORTON 2B - PASS
HORTON 2C - PASS
HORTON 7 - PASS
HORTON 2A - PASS

Analytical Report

Report Summary

Client: Hallador

Chain Of Custody Number:

Samples Received: 11/30/2018 12:30:00PM

Job Number: 18010-0004

Work Order: P811087 Project Name/

Location: Below Grade Pits

Horton 9,2B,2C,7,2A

Report Reviewed By:



Walter Hinchman, Laboratory Director

Date: 12/5/18



Tim Cain, Project Manager

Date: 12/5/18



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.



Hallador
1660 Lincoln St Suite 2700
Denver CO, 80264

Project Name: Below Grade Pits
Project Number: 18010-0004
Project Manager: Micheal I. Dean

Reported:
12/05/18 16:53

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Horton #9	P811087-01A	Soil	11/30/18	11/30/18	Glass Jar, 4 oz.
Horton 2B	P811087-02A	Soil	11/30/18	11/30/18	Glass Jar, 4 oz.
Horton 2C	P811087-03A	Soil	11/30/18	11/30/18	Glass Jar, 4 oz.
Horton 7	P811087-04A	Soil	11/30/18	11/30/18	Glass Jar, 4 oz.
Horton 2A	P811087-05A	Soil	11/30/18	11/30/18	Glass Jar, 4 oz.

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laboratory@envirotech-inc.com

Hallador
 1660 Lincoln St Suite 2700
 Denver CO, 80264

 Project Name: Below Grade Pits
 Project Number: 18010-0004
 Project Manager: Micheal I. Dean

 Reported:
 12/05/18 16:53

Horton #9 API# 30-045-22671
P811087-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1848028	11/30/18	12/01/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1848028	11/30/18	12/01/18	EPA 8015D	
Diesel Range Organics (C10-C28)	808	50.0	mg/kg	2	1848029	11/30/18	12/03/18	EPA 8015D	
Oil Range Organics (C28-C40+)	998	100	mg/kg	2	1848029	11/30/18	12/03/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %		50-150	1848028	11/30/18	12/01/18	EPA 8015D	
Surrogate: n-Nonane		102 %		50-200	1848029	11/30/18	12/03/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1849004	12/04/18	12/04/18	EPA 300.0/9056A	

FAIL - TPH TO HIGH.
NO PASS.

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Hallador
1660 Lincoln St Suite 2700
Denver CO, 80264

Project Name: Below Grade Pits
Project Number: 18010-0004
Project Manager: Micheal I. Dean

Reported:
12/05/18 16:53

Horton 2B API# 30-045-30160
P811087-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1848028	11/30/18	12/01/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1848028	11/30/18	12/01/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1848029	11/30/18	12/04/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1848029	11/30/18	12/04/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %		50-150	1848028	11/30/18	12/01/18	EPA 8015D	
Surrogate: n-Nonane		94.8 %		50-200	1848029	11/30/18	12/04/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	20.3	20.0	mg/kg	1	1849004	12/04/18	12/04/18	EPA 300.0/9056A	

PASS

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Hallador
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 Denver CO, 80264

 Project Name: Below Grade Pits
 Project Number: 18010-0004
 Project Manager: Micheal I. Dean

 Reported:
 12/05/18 16:53

Horton 2C API# 30-045-31435

P811087-03 (Solid)

Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Volatile Organics by EPA 8021								
Benzene	ND	100	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B
Toluene	ND	100	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B
Ethylbenzene	ND	100	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B
p,m-Xylene	ND	200	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B
o-Xylene	ND	100	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B
Total Xylenes	ND	100	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B
Total BTEX	ND	100	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1848028	11/30/18	12/01/18	EPA 8021B
Nonhalogenated Organics by 8015								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1848028	11/30/18	12/01/18	EPA 8015D
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1848029	11/30/18	12/03/18	EPA 8015D
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1848029	11/30/18	12/03/18	EPA 8015D
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %		50-150	1848028	11/30/18	12/01/18	EPA 8015D
Surrogate: n-Nonane		93.0 %		50-200	1848029	11/30/18	12/03/18	EPA 8015D
Anions by 300.0/9056A								
Chloride	ND	20.0	mg/kg	1	1849004	12/04/18	12/04/18	EPA 300.0/9056A

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Hallador 1660 Lincoln St Suite 2700 Denver CO, 80264	Project Name: Below Grade Pits Project Number: 18010-0004 Project Manager: Micheal I. Dean	Reported: 12/05/18 16:53
--	--	-----------------------------

Horton 7 API# 30-045-21362
P811087-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	100	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %		50-150	1848028	11/30/18	12/01/18	EPA 8021B	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1848028	11/30/18	12/01/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1848029	11/30/18	12/03/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1848029	11/30/18	12/03/18	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		103 %		50-150	1848028	11/30/18	12/01/18	EPA 8015D	
<i>Surrogate: n-Nonane</i>		91.5 %		50-200	1848029	11/30/18	12/03/18	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1849004	12/04/18	12/04/18	EPA 300.0/9056A	
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Hallador
 1660 Lincoln St Suite 2700
 Denver CO, 80264

 Project Name: Below Grade Pits
 Project Number: 18010-0004
 Project Manager: Micheal I. Dean

 Reported:
 12/05/18 16:53

Horton 2A API# 30-045-23392
P811087-05 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1848028	11/30/18	12/01/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1848028	11/30/18	12/01/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1848028	11/30/18	12/01/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1848029	11/30/18	12/03/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1848029	11/30/18	12/03/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		104 %		50-150	1848028	11/30/18	12/01/18	EPA 8015D	
Surrogate: n-Nonane		97.5 %		50-200	1848029	11/30/18	12/03/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1849004	12/04/18	12/04/18	EPA 300.0/9056A	

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Denver CO, 80264

Project Name: Below Grade Pits
Project Number: 18010-0004
Project Manager: Micheal I. Dean

Reported:
12/05/18 16:53

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 1848028 - Purge and Trap EPA 5030A

Blank (1848028-BLK1)

Prepared: 11/30/18 | Analyzed: 12/01/18 0

Benzene	ND	100	ug/kg							
Toluene	ND	100	"							
Ethylbenzene	ND	100	"							
p,m-Xylene	ND	200	"							
o-Xylene	ND	100	"							
Total Xylenes	ND	100	"							
Total BTEX	ND	100	"							
Surrogate: 4-Bromochlorobenzene-PID	8200		"	8000		103	50-150			

LCS (1848028-BS1)

Prepared: 11/30/18 | Analyzed: 12/01/18 0

Benzene	5360	100	ug/kg	5000		107	70-130			
Toluene	5390	100	"	5000		108	70-130			
Ethylbenzene	5430	100	"	5000		109	70-130			
p,m-Xylene	11100	200	"	10000		111	70-130			
o-Xylene	5370	100	"	5000		107	70-130			
Total Xylenes	16500	100	"	15000		110	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8170		"	8000		102	50-150			

Matrix Spike (1848028-MS1)

Source: P811087-01

Prepared: 11/30/18 | Analyzed: 12/01/18 1

Benzene	5350	100	ug/kg	5000	ND	107	54.3-133			
Toluene	5360	100	"	5000	ND	107	61.4-130			
Ethylbenzene	5390	100	"	5000	ND	108	61.4-133			
p,m-Xylene	11000	200	"	10000	ND	110	63.3-131			
o-Xylene	5300	100	"	5000	ND	106	63.3-131			
Total Xylenes	16300	100	"	15000	ND	109	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8010		"	8000		100	50-150			

Matrix Spike Dup (1848028-MSD1)

Source: P811087-01

Prepared: 11/30/18 | Analyzed: 12/01/18 1

Benzene	5390	100	ug/kg	5000	ND	108	54.3-133	0.675	20	
Toluene	5400	100	"	5000	ND	108	61.4-130	0.825	20	
Ethylbenzene	5430	100	"	5000	ND	109	61.4-133	0.780	20	
p,m-Xylene	11100	200	"	10000	ND	111	63.3-131	0.645	20	
o-Xylene	5350	100	"	5000	ND	107	63.3-131	0.865	20	
Total Xylenes	16400	100	"	15000	ND	109	63.3-131	0.717	20	
Surrogate: 4-Bromochlorobenzene-PID	8010		"	8000		100	50-150			

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Page 8 of 13



Hallador
1660 Lincoln St Suite 2700
Denver CO, 80264

Project Name: Below Grade Pits
Project Number: 18010-0004
Project Manager: Micheal I. Dean

Reported:
12/05/18 16:53

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

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

Batch 1848028 - Purge and Trap EPA 5030A

Blank (1848028-BLK1)

Prepared: 11/30/18 | Analyzed: 12/01/18 0

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.21		"	8.00		103	50-150			

LCS (1848028-BS2)

Prepared: 11/30/18 | Analyzed: 12/01/18 0

Gasoline Range Organics (C6-C10)	50.6	20.0	mg/kg	50.0		101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.44		"	8.00		105	50-150			

Matrix Spike (1848028-MS2)

Source: P811087-01

Prepared: 11/30/18 | Analyzed: 12/01/18 1

Gasoline Range Organics (C6-C10)	49.3	20.0	mg/kg	50.0	ND	98.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.39		"	8.00		105	50-150			

Matrix Spike Dup (1848028-MSD2)

Source: P811087-01

Prepared: 11/30/18 | Analyzed: 12/01/18 1

Gasoline Range Organics (C6-C10)	50.3	20.0	mg/kg	50.0	ND	101	70-130	2.14	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.31		"	8.00		104	50-150			

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Hallador
1660 Lincoln St Suite 2700
Denver CO, 80264

Project Name: Below Grade Pits
Project Number: 18010-0004
Project Manager: Micheal I. Dean

Reported:
12/05/18 16:53

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1848029 - DRO Extraction EPA 3570										
Blank (1848029-BLK1)				Prepared: 11/30/18 Analyzed: 12/03/18						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	44.9		"	50.0		89.7	50-200			
LCS (1848029-BS1)				Prepared: 11/30/18 Analyzed: 12/03/18						
Diesel Range Organics (C10-C28)	480	25.0	mg/kg	500		96.1	38-132			
Surrogate: n-Nonane	45.5		"	50.0		91.0	50-200			
Matrix Spike (1848029-MS1)				Source: P811087-01		Prepared: 11/30/18 Analyzed: 12/03/18				
Diesel Range Organics (C10-C28)	1310	50.0	mg/kg	500	808	100	38-132			
Surrogate: n-Nonane	53.8		"	50.0		108	50-200			
Matrix Spike Dup (1848029-MSD1)				Source: P811087-01		Prepared: 11/30/18 Analyzed: 12/03/18				
Diesel Range Organics (C10-C28)	1260	50.0	mg/kg	500	808	90.7	38-132	3.68	20	
Surrogate: n-Nonane	54.8		"	50.0		110	50-200			

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Hallador 1660 Lincoln St Suite 2700 Denver CO, 80264	Project Name: Below Grade Pits Project Number: 18010-0004 Project Manager: Micheal I. Dean	Reported: 12/05/18 16:53
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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
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Batch 1849004 - Anion Extraction EPA 300.0/9056A

Blank (1849004-BLK1)				Prepared: 12/04/18 0 Analyzed: 12/04/18 1						
Chloride	ND	20.0	mg/kg							
LCS (1849004-BS1)				Prepared: 12/04/18 0 Analyzed: 12/04/18 1						
Chloride	256	20.0	mg/kg	250		102	90-110			
Matrix Spike (1849004-MS1)				Source: P811080-01 Prepared: 12/04/18 0 Analyzed: 12/04/18 1						
Chloride	1300	20.0	mg/kg	250	1460	NR	80-120			SPK2
Matrix Spike Dup (1849004-MSD1)				Source: P811080-01 Prepared: 12/04/18 0 Analyzed: 12/04/18 1						
Chloride	1560	20.0	mg/kg	250	1460	40.6	80-120	18.3	20	SPK2

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Hallador
1660 Lincoln St Suite 2700
Denver CO, 80264

Project Name: Below Grade Pits
Project Number: 18010-0004
Project Manager: Micheal I. Dean

Reported:
12/05/18 16:53

Notes and Definitions

SPK2 The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to native analyte concentration at 4 times or greater than the spike concentration.

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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Client: HALLADOR
 Project: BELOW GRADE PITS
 Project Manager: MICHAEL L. DEAN
 Address: 7415 EAST MAIN
 City, State, Zip: FARMINGTON N.M. 87402
 Phone: 505-860-0481
 Email: MICHAEL.DEAN@WALSHENG.NET

Report Attention
 Report due by: 12-5-18
 Attention: VERN ANDREWS
 Address: 7415 E MAIN
 City, State, Zip: FARMINGTON N.M.
 Phone: 505-320-1763
 Email: VERN@WALSHENG.NET

Lab Use Only		TAT		EPA Program		
Lab WO#	Job Number	1D	3D	RCRA	CWA	SDWA
<u>P861087</u>	<u>18010-0004</u>		<u>X</u>			
Analysis and Method				State		
DRO/RO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1
<u>X</u>	<u>X</u>	<u>X</u>			<u>X</u>	
				Remarks		

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number
9:00am	11-30-18 <u>12-30-18</u>	S	G	#9	1
9:30	11-30-18 <u>12-30-18</u>	S	G	2B	2
10:00	11-30-18 <u>12-30-18</u>	S	G	2C	3
10:30	11-30-18	S	G	7	4
10:45	11-30-18	S	G	2A	5

Additional Instructions:

vis ice in cooler

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

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 5°C on subsequent days.

Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only	
<u>Michael Dean</u>		<u>11-30-18</u>	<u>12:30pm</u>	<u>VERN ANDREWS</u>		<u>12-30-18</u>	<u>12:30</u>	Received on ice: <u>Y</u> / N	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____	
								AVG Temp °C <u>4.0</u>	

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