

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-141
Revised April 3, 2017

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

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Hallador Petroleum LLP	Contact Tim Lovseth	
Address 16660 Lincoln St. Ste 2700	Telephone No. 303 839- 5504 x 317	
Facility Name Horton #3	Facility Type gas well	
Surface Owner Roddy	Mineral Owner BLM	API No. 30-045-11448

LOCATION OF RELEASE

Unit Letter G	Section 13	Township 32N	Range 12W	Feet from the 1000	North/South Line North	Feet from the 725	East/West Line East	County San Juan
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Latitude 36.98752 Longitude 108.04360 NAD83

NATURE OF RELEASE

Type of Release oil spill	Volume of Release unknown	Volume Recovered NA
Source of Release BGT	Date and Hour of Occurrence unkn	Date and Hour of Discovery 2/16/18
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? OCD - Cory Smith	
By Whom? Lovseth	Date and Hour 2/16/18 11:58 am	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse	

If a Watercourse was Impacted, Describe Fully *

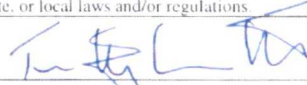
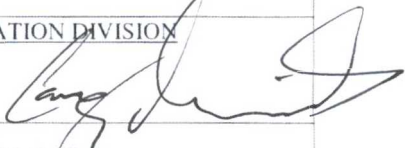
Describe Cause of Problem and Remedial Action Taken *

BGT sample analysis attached, closure approved under alternative standards

Describe Area Affected and Cleanup Action Taken *

Excavated about 700 cubic yards of oil contaminated soils from an area generally below the BGT. Contaminated soils trucked to Industrial Ecosystems Inc. disposal facility. Sprayed 300 gallons of Potassium Permanganate solution over the open excavation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Timothy Lovseth	Approved by Environmental Specialist 	
Title: Manager	Approval Date: 6/22/18	Expiration Date: _____
E-mail Address: tlovseth@halladorenergy.com	Conditions of Approval: _____	Attached ☐ _____
Date: 4-9-18	Phone: 303 839-5504	

* Attach Additional Sheets If Necessary

#NCS 1807955057

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1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Tim Lovseth [<mailto:tlovseth@halladorenergy.com>]
Sent: Thursday, March 29, 2018 12:05 PM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Subject: Horton #3 BGT Closure

Hallador is requesting permission to backfill and close the BGT at the Horton #3 location after treating the excavation with 300 gallons of potassium permanganate solution.

No BTEX constituents were detected in any of the samples. While two samples yielded TPH concentrations greater than the regulatory limit of 100 mg/kg, no gasoline range organics were detected. Specifically, the Bottom North sample has TPH values of ND GRO, 158 mg/kg DRO and 77.1 mg/kg ORO. The West Wall sample has TPH values of ND GRO, 144 mg/kg DRO and 80.6 mg/kg ORO. These analytical results suggest the presence of heavy immovable oil.

We recognize the site is adjacent to a dry wash however, no surface water is present. We estimate depth to groundwater is greater than 100 feet. The closest water well (Decker well 23-32N-12W) has a depth to water of 155 feet. The deepest part of the excavation is 21 feet and no groundwater has been observed. The closest first order tributary of Jaquez Arroyo is about 6000 feet west. No buildings are within 1000 feet.

We have excavated and hauled to the disposal facility in excess of 700 cubic yards of contaminated soil. The southwest portion of the excavation is at bedrock. As a practical matter the indurated nature of the bedrock prevents any deeper excavation into the bedrock.

The application of potassium permanganate solution as a final remedial step will help to oxidize this remaining oil. These site conditions suggest little to no risk to the environment from the migration of the remaining oil contamination at the Horton #3 location.

Tim Lovseth

From: Tim Lovseth
Sent: Monday, April 09, 2018 9:56 AM
To: 'Smith, Cory, EMNRD'
Subject: RE: Horton #3 BGT Closure

Cory

Spraying of the Potassium Permanganate took place on April 3. Backfill activity started afterwards and was mostly completed the same day. Site grading was completed on April 6th.

Tim

From: Smith, Cory, EMNRD [mailto:Cory.Smith@state.nm.us]
Sent: Monday, April 09, 2018 8:05 AM
To: Tim Lovseth <tlovseth@halladoreenergy.com>
Cc: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>
Subject: RE: Horton #3 BGT Closure

Tim,

What is the status of the Horton #3?

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

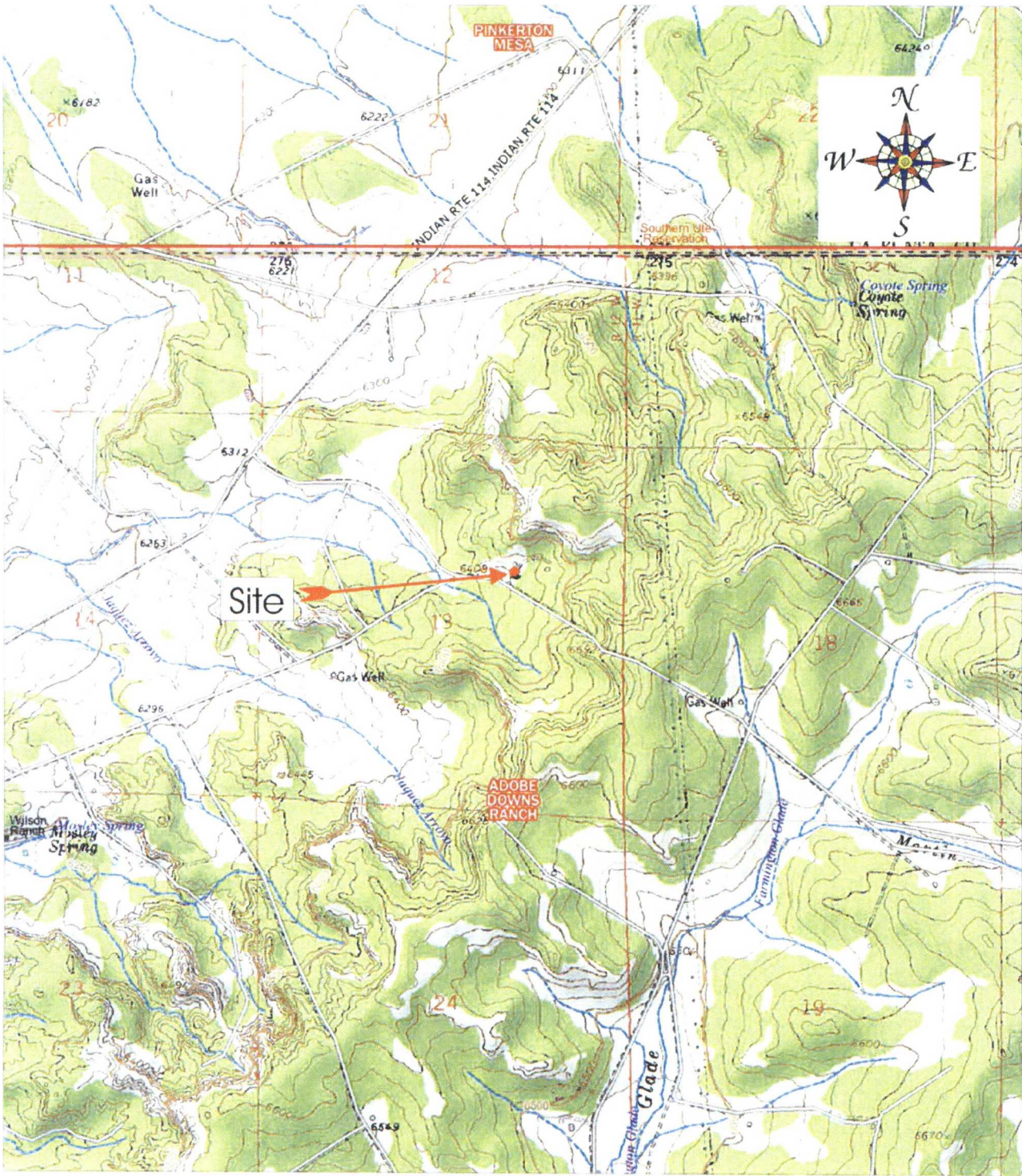
From: Smith, Cory, EMNRD
Sent: Friday, March 30, 2018 2:59 PM
To: 'Tim Lovseth' <tlovseth@halladoreenergy.com>
Cc: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>
Subject: RE: Horton #3 BGT Closure

Tim,

OCD approves Halladors request for alternative closure standards. Please execute the spraying of potassium permanganate and include this email approval in your Final C-141 packet.

Thank you,

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources



Source: 7.5 Minute, Adobe Downs Ranch, New Mexico U.S.G.S. Topographic Quadrangle Map
Scale 1:24,000 1" = 1600'

Hallador Energy Horton #3 Section 13, Township 32N, Range 12W San Juan County, New Mexico	 envirotech ENVIRONMENTAL SCIENTISTS & ENGINEERS	Vicinity Map		
Project Number 18010-0001 Date Drawn 3/26/18	5796 U.S. HIGHWAY 64 Farmington, New Mexico 87401 505.632.0615	Figure #1		
		<table><tr><td>DRAWN BY: Brittany Hall</td><td>PROJECT MANAGER: Felipe Aragon</td></tr></table>	DRAWN BY: Brittany Hall	PROJECT MANAGER: Felipe Aragon
DRAWN BY: Brittany Hall	PROJECT MANAGER: Felipe Aragon			



LEGEND	
⊕ Well Head ↗ Excavation	
✕ Locations of South Cup Samples	✕ Locations of Bottom North Samples
• Locations of West Wall Samples	✕ Locations of South Wall Samples
✕ Locations of East Wall Samples	✕ Locations of North Wall Samples
• Locations of Bottom South Samples	✕ Locations of Northeast Wall Samples

SITE MAP					
Hallador Energy					
Horton #3 Well Site					
SECTION 13, TWP 32 NORTH, RANGE 12 WEST					
SAN JUAN COUNTY, NEW MEXICO					
SCALE: NTS			FIGURE NO. 2		REV
PROJECT NO:18010-0001					
REVISIONS					
NO.	DATE	BY	DESCRIPTION		
MAP DRWN	BH		3/21/18	BASE DRWN	IG 11/7/17
 envirotech					
5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615					



Hallador Energy
BGT Closure Documentation
Horton #3 Well Site
Project Number 18010-0001
February 2018
Page 2

The samples collected from the *South Wall*, *Bottom South*, and *Bottom North* were screened in the field for TPH using USEPA Method 418.1 and organic vapors (OV) using a photoionization detector (PID). The *South Wall* returned a result of 15.8 mg/kg OV and 180 ppm of TPH, the *Bottom South* returned a result of 756.0 mg/kg OV and 392 ppm TPH, and the *Bottom North* returned a result of 386.0 mg/kg OV and 468 ppm TPH; see enclosed *Field Notes*. The eight (8) samples were placed into laboratory provided four (4)-ounce glass jars, capped headspace free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for TPH using USEPA Method 8015D (GRO, DRO, and ORO), and benzene and total BTEX using USEPA Method 8021B. All samples returned results below the regulatory standards with the exception of the *West Wall* and the *Bottom North*, which returned results of 224.6 mg/kg of TPH and 235.1 mg/kg of TPH, respectively.

Based on the analytical results, Envirotech recommends in situ remediation of the remaining contamination on-site. Envirotech proposes the application of potassium permanganate solution to the affected area to aid in the degradation of the remaining petroleum hydrocarbons.

On April 3, 2018 Envirotech personnel returned to the site to perform potassium permanganate application activities. Three-hundred (300) gallons of potassium permanganate solution was applied to the excavated area; see enclosed *Site Photography*.

Based on the on-site conditions and the analytical results, Envirotech, Inc. recommends requesting a *No Further Action* status from the NMOCD.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully submitted,
ENVIROTECH, INC.

A handwritten signature in blue ink that reads 'Brittany Hall'.

Brittany Hall
Environmental Field Technician
bhall@envirotech-inc.com

Enclosure(s): Vicinity Map
Site Map
Field Notes
Site Photography
Summary of Analytical Results
Analytical Results

Cc: Client File Number 18010



April 9, 2018

Project Number 18010-0001

Mr. Timothy Lovseth
Hallador Energy
1660 Lincoln Street, Suite 2700
Denver, Colorado 80264

Email: tlovseth@halladorenergy.com
Phone: (303) 550-3226

RE: SOIL SAMPLING AT THE HORTON #3 WELL SITE LOCATED AT SECTION 13, TOWNSHIP 32 NORTH, RANGE 12 WEST, SAN JUAN COUNTY, NEW MEXICO

Dear Mr. Lovseth:

Enclosed please find the *Vicinity Map*, *Site Map*, *Field Notes*, *Summary of Analytical Results* and *Analytical Results* for soil sampling activities conducted at the Horton #3 well site located in Section 13, Township 32 North, Range 12 West, San Juan County, New Mexico (site).

Envirotech has been retained by Hallador Energy to perform below grade tank (BGT) closure confirmation sampling at the above referenced site. Envirotech personnel arrived on-site on February 2, 2018 to perform sampling activities. Upon arrival the BGT was removed and staged on-site. One (1) five (5)-point composite sample was collected from directly beneath the BGT with New Mexico Oil and Gas Conservation Division (NMOCD) representative, Mr. Cory Smith as a witness. The sample was placed into laboratory provided four (4)-ounce glass jars, capped headspace free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for total petroleum hydrocarbons (TPH) using USEPA Method 8015D (GRO, DRO, and ORO), chlorides using USEPA Method 300.0, and benzene and total BTEX using USEPA Method 8021B. The sample returned results below the regulatory limits for all constituents analyzed except TPH, which returned a result of 9,950 mg/kg; therefore, confirming that a release had occurred. Based on the analytical results, Envirotech recommended further delineation and excavation of the area around and beneath the former location of the BGT be performed until the soil returned results below all applicable NMOCD regulatory standards.

Envirotech returned to the site on March 20, 2018 to performed confirmation sampling. A brief site assessment and Job Safety Analysis (JSA) was conducted. The closure standard for the site was determined to be 100 parts per million (ppm) TPH, 10 ppm benzene, 50 ppm total benzene, toluene, ethylbenzene, and xylene (total BTEX) in accordance with the New Mexico Oil and Gas Conservation Division (NMOCD) Guidelines for Remediation of Spills, Leaks, and Releases regulatory standards.

Prior to Envirotech's arrival, the area around and beneath the former location of the BGT was excavated to the extents of approximately seventy-five (75) feet long by forty-five (45) feet wide with a depth ranging from two (2) feet to twenty-one (21) feet below ground surface (bgs). Five (5)-point composite samples were collected from the excavation with NMOCD representative, Mr. Cory Smith as a witness; see enclosed *Field Notes*. The samples were identified as *South Wall*, *South Cup*, *Bottom South*, *West Wall*, *Bottom North*, *North Wall*, *Northeast Wall*, and *East Wall*; see enclosed *Site Map*.

CLIENT: <u>Hallador</u>	 envirotech (505) 632-0615 (800) 362-1879 5796 U.S. Hwy 64, Farmington, NM 87401	Envmtl. Spclst: <u>BHaly</u>
CLIENT/JOB #: <u>1840-0001</u>		C.O.C. No: _____
START DATE: <u>3/20/13</u>		LAT <u>36.98752</u>
FINISH DATE: _____		LONG <u>-108.04360</u>
Page # _____ of _____		

Field Report: Spill Closure Verification

NMOCD Ranking: _____	Depth to GW: <u>7601</u>	WH Protection Area: ☒ No ☐ Yes
NMOCD TPH Closure Std.: <u>3000 HL</u>	Distance to SW: <u>none</u>	
LOCATION: Name: <u>Horton</u>	Well #: <u>3</u>	API: _____
County: _____	State: _____	
Cause of Release: <u>BGT Leak</u>	Material Released: <u>Produce Water / Prod.</u>	Am't. Released: <u>unk</u>
QUAD/UNIT: <u>6</u>	SEC: <u>13</u>	TWP: <u>34N</u> RNG: <u>12W</u> PM: _____
Wellhead Lat/Long: _____	Land Jurisdiction: _____	QTR Footage: _____
Spill Located Approximately: <u>40.5</u> FT.	FROM: <u>well head</u>	
Excavation Approx: <u>75</u> FT X <u>45</u> FT X <u>2-21</u> FT.	Cubic Yardage: _____	
Disposal Facility: _____	Remediation Method: _____	
Land Use: _____	Lease: _____	Land Owner: <u>Private</u>

FIELD 418.1 ANALYSIS

SAMPLE DESCRIPTION	TIME	SAMPLE ID	WEIGHT (g)	ML FREON	DILUTION	READING	CALC. ppm
Standard (200)	0937	—	—	—	—	235	235
South wall	0957	1	5	20	4	45	180
Bottom South	1040	2	5	20	4	48	392
Bottom North	1048	3	5	20	4	117	465
South Cup	1005	4	—	—	—	—	—
West Wall	1013	5	—	—	—	—	—
North Wall	1016	6	—	—	—	—	—
Northeast Wall	1021	7	—	—	—	—	—
East Wall	1024	8	—	—	—	—	—

OVM Results

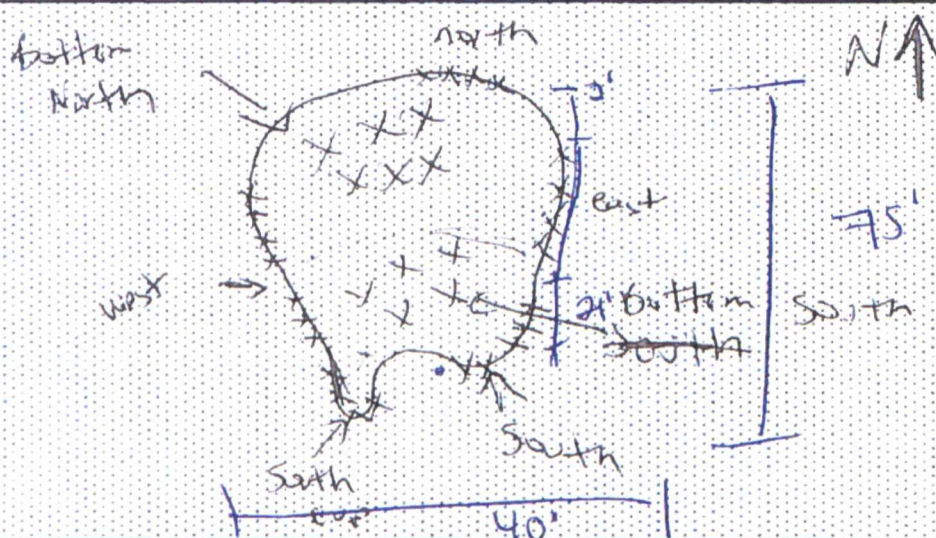
Lab Testing

Sample ID	Field Headspace PID (ppm)	Sample ID	Field Headspace PID (ppm)	Sample ID	Analysis Type	Time
South wall (1)	15.8			1 South wall	8015 + 000 8021	0957
Bottom South	756.0			2 Bottom-South	8015 + 000 8021	1040
Bottom North	386.0			3 Bottom North	8015 + 000 8021	1048
				4 South Cup	8015 + 000 8021	1005
				5 West Wall	8015 + 000 8021	1013
				6 North Wall	8015 + 000 8021	1016
				7 Northeast wall	8015 + 000 8021	1021

Closure: 19.15.3116 nmhc 8 East wall 8015 + 000 8021 1024
 19.15.1.19 nmhc

SPILL PERIMETER: Draw a schematic of the spill site. Attach photos and other diagrams as needed.

EXCAVATION PROFILE:



NOTES:

Include number of samples and borings taken, and screening types completed.
Describe spill in narrative format including amount, source and type of product.

WO #:

Who Ordered/Site Rep:

**SITE PHOTOGRAPHY
POTASSIUM PERMANGANATE APPLICATION
HALLADOR ENERGY
HORTON #3 WELL SITE
PROJECT NUMBER 18010-0001
APRIL 2018**



Picture 1: View of Excavation Prior to Potassium Permanganate Application
(View to Southwest)



Picture 2: View of Excavation Prior to Potassium Permanganate Application
(View to West)

SITE PHOTOGRAPHY
POTASSIUM PERMANGANATE APPLICATION
HALLADOR ENERGY
HORTON #3 WELL SITE
PROJECT NUMBER 18010-0001
APRIL 2018



Picture 3: View of Excavation Prior to Potassium Permanganate Application
(View to North)



Picture 4: View of *West Wall* and *Bottom North* Subsequent of
Potassium Permanganate Application

**SITE PHOTOGRAPHY
POTASSIUM PERMANGANATE APPLICATION
HALLADOR ENERGY
HORTON #3 WELL SITE
PROJECT NUMBER 18010-0001
APRIL 2018**



Picture 5: View of Excavation Subsequent to Potassium Permanganate Application (View to Southwest)



Picture 6: View of Excavation Subsequent of Potassium Permanganate Application (View to East)

Table 1, Summary of Analytical Results
Hallador Energy
Confirmation Sampling
Horton #3
Project Number: 18010-0001

Contaminant of Concern	NMOCD Regulatory Standard (ppm)	Sample Description							
		South Wall	South Cup	Bottom South	West Wall	Bottom North	North Wall	Northeast Wall	East Wall
TPH (USEPA Method 8015)	100	65.5	ND	48.3	224.6	235.1	36.9	ND	ND
Benzene	NA	10	ND	ND	ND	ND	ND	ND	ND
Toluene	NA	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	NA	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (total)	NA	ND	ND	ND	ND	ND	ND	ND	ND
Total BTEX	50	ND	ND	ND	ND	ND	ND	ND	ND

* NS - Parameter not screened
* ND - Parameter not detected

Analytical Report

Report Summary

Client: Hallador

Chain Of Custody Number:

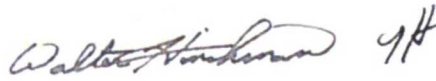
Samples Received: 3/20/2018 12:35:00PM

Job Number: 18010-0001

Work Order: P803070

Project Name/Location: Soil Sampling at Horton
#3

Report Reviewed By:



Date: 3/27/18

Walter Hinchman, Laboratory Director



Date: 3/27/18

Tim Cain, Quality Assurance Officer

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.

Hallador	Project Name:	Soil Sampling at Horton #3	Reported:
1660 Lincoln St Suite 2700	Project Number:	18010-0001	27-Mar-18 12:14
Colorado NM, 87401	Project Manager:	F Aragon	

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
South Wall	P803070-01A	Soil	03/20/18	03/20/18	Glass Jar, 4 oz.
South Cup	P803070-02A	Soil	03/20/18	03/20/18	Glass Jar, 4 oz.
Bottom South	P803070-03A	Soil	03/20/18	03/20/18	Glass Jar, 4 oz.
West Wall	P803070-04A	Soil	03/20/18	03/20/18	Glass Jar, 4 oz.
Bottom North	P803070-05A	Soil	03/20/18	03/20/18	Glass Jar, 4 oz.
North Wall	P803070-06A	Soil	03/20/18	03/20/18	Glass Jar, 4 oz.
Northeast Wall	P803070-07A	Soil	03/20/18	03/20/18	Glass Jar, 4 oz.
East Wall	P803070-08A	Soil	03/20/18	03/20/18	Glass Jar, 4 oz.

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Hallador	Project Name:	Soil Sampling at Horton #3	Reported:
1660 Lincoln St Suite 2700	Project Number:	18010-0001	27-Mar-18 12:14
Colorado NM, 87401	Project Manager:	F. Aragon	

South Wall
P803070-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %		50-150	1812021	03/23/18	03/24/18	EPA 8021B	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1812021	03/23/18	03/24/18	EPA 8015D	
Diesel Range Organics (C10-C28)	65.5	25.0	mg/kg	1	1812013	03/26/18	03/27/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1812013	03/26/18	03/27/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.8 %		50-150	1812021	03/23/18	03/24/18	EPA 8015D	
Surrogate: n-Nonane		95.2 %		50-200	1812013	03/26/18	03/27/18	EPA 8015D	

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Hallador	Project Name:	Soil Sampling at Horton #3	Reported:
1660 Lincoln St Suite 2700	Project Number:	18010-0001	27-Mar-18 12:14
Colorado NM, 87401	Project Manager:	F.Aragon	

South Cup
P803070-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Surrogate 4-Bromochlorobenzene-FID		100 %		50-150	1812021	03/23/18	03/24/18	EPA 8021B	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1812021	03/23/18	03/24/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1812013	03/26/18	03/27/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1812013	03/26/18	03/27/18	EPA 8015D	
Surrogate 1-Chloro-4-fluorobenzene-FID		97.6 %		50-150	1812021	03/23/18	03/24/18	EPA 8015D	
Surrogate n-Nonane		97.9 %		50-200	1812013	03/26/18	03/27/18	EPA 8015D	

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5796 US Highway 64, Farmington, NM 87401

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

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

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

envirotech-inc.com
laboratory@envirotech-inc.com

Hallador	Project Name:	Soil Sampling at Horton #3	Reported:
1660 Lincoln St Suite 2700	Project Number:	18010-0001	27-Mar-18 12:14
Colorado NM, 87401	Project Manager:	F.Aragon	

Bottom South

P803070-03 (Solid)

Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Volatile Organics by EPA 8021								
Benzene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B
Toluene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B
Ethylbenzene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B
p,m-Xylene	ND	200	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B
o-Xylene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B
Total Xylenes	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B
Total BTEX	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B
Surrogate 4-Bromochlorobenzene-PID		103 %		50-150	1812021	03/23/18	03/24/18	EPA 8021B
Nonhalogenated Organics by 8015								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1812021	03/23/18	03/24/18	EPA 8015D
Diesel Range Organics (C10-C28)	48.3	25.0	mg/kg	1	1812013	03/26/18	03/27/18	EPA 8015D
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1812013	03/26/18	03/27/18	EPA 8015D
Surrogate 1-Chloro-4-fluorobenzene-FID		99.3 %		50-150	1812021	03/23/18	03/24/18	EPA 8015D
Surrogate n-Nonane		96.6 %		50-200	1812013	03/26/18	03/27/18	EPA 8015D

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Hallador	Project Name:	Soil Sampling at Horton #3	Reported:
1660 Lincoln St Suite 2700	Project Number:	18010-0001	27-Mar-18 12:14
Colorado NM, 87401	Project Manager:	F Aragon	

West Wall
P803070-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Surrogate 4-Bromochlorobenzene-PID		99.7 %		50-150	1812021	03/23/18	03/24/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1812021	03/23/18	03/24/18	EPA 8015D	
Diesel Range Organics (C10-C28)	144	25.0	mg/kg	1	1812013	03/26/18	03/27/18	EPA 8015D	
Oil Range Organics (C28-C40+)	80.6	50.0	mg/kg	1	1812013	03/26/18	03/27/18	EPA 8015D	
Surrogate 1-Chloro-4-fluorobenzene-FID		102 %		50-150	1812021	03/23/18	03/24/18	EPA 8015D	
Surrogate n-Nonane		98.6 %		50-200	1812013	03/26/18	03/27/18	EPA 8015D	

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Hallador	Project Name:	Soil Sampling at Horton #3	Reported:
1660 Lincoln St Suite 2700	Project Number:	18010-0001	27-Mar-18 12:14
Colorado NM, 87401	Project Manager:	F.Aragon	

Bottom North
P803070-05 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Surrogate 4-Bromochlorobenzene-PID		101 %		50-150	1812021	03/23/18	03/24/18	EPA 8021B	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1812021	03/23/18	03/24/18	EPA 8015D	
Diesel Range Organics (C10-C28)	158	25.0	mg/kg	1	1812013	03/26/18	03/27/18	EPA 8015D	
Oil Range Organics (C28-C40+)	77.1	50.0	mg/kg	1	1812013	03/26/18	03/27/18	EPA 8015D	
Surrogate 1-Chloro-4-fluorobenzene-FID		99.3 %		50-150	1812021	03/23/18	03/24/18	EPA 8015D	
Surrogate n-Nonane		96.0 %		50-200	1812013	03/26/18	03/27/18	EPA 8015D	

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Hallador	Project Name:	Soil Sampling at Horton #3	Reported:
1660 Lincoln St Suite 2700	Project Number:	18010-0001	27-Mar-18 12:14
Colorado NM, 87401	Project Manager:	F.Aragon	

North Wall
P803070-06 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Surrogate 4-Bromochlorobenzene-PID		101 %		50-150	1812021	03/23/18	03/24/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1812021	03/23/18	03/24/18	EPA 8015D	
Diesel Range Organics (C10-C28)	36.9	25.0	mg/kg	1	1812013	03/26/18	03/27/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1812013	03/26/18	03/27/18	EPA 8015D	
Surrogate 1-Chloro 4-fluorobenzene-FID		101 %		50-150	1812021	03/23/18	03/24/18	EPA 8015D	
Surrogate n-Nonane		95.6 %		50-200	1812013	03/26/18	03/27/18	EPA 8015D	

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Hallador	Project Name	Soil Sampling at Horton #3	Reported:
1660 Lincoln St Suite 2700	Project Number	18010-0001	27-Mar-18 12:14
Colorado NM, 87401	Project Manager	F. Aragon	

Northeast Wall
P803070-07 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %		50-150	1812021	03/23/18	03/24/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1812021	03/23/18	03/24/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1812013	03/26/18	03/27/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1812013	03/26/18	03/27/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.9 %		50-150	1812021	03/23/18	03/24/18	EPA 8015D	
Surrogate: n-Nonane		96.6 %		50-200	1812013	03/26/18	03/27/18	EPA 8015D	

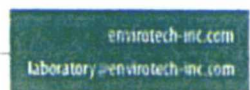
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Hallador 1660 Lincoln St Suite 2700 Colorado NM, 87401	Project Name: Soil Sampling at Horton #3 Project Number: 18010-0001 Project Manager: F. Aragon	Reported: 27-Mar-18 12:14
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East Wall
P803070-08 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1812021	03/23/18	03/24/18	EPA 8021B	

Surrogate 4-Bromochlorobenzene-PID	99.9%	50-150	1812021	03/23/18	03/24/18	EPA 8021B
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Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1812021	03/23/18	03/24/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1812013	03/26/18	03/27/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1812013	03/26/18	03/27/18	EPA 8015D	

Surrogate 1-Chloro-4-fluorobenzene-FID	99.2%	50-150	1812021	03/23/18	03/24/18	EPA 8015D
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Surrogate n-Nonane	92.9%	50-200	1812013	03/26/18	03/27/18	EPA 8015D
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Hallador	Project Name	Soil Sampling at Horton #3	Reported:
1660 Lincoln St Suite 2700	Project Number	18010-0001	27-Mar-18 12:14
Colorado NM, 87401	Project Manager:	E.Aragon	

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 1812021 - Purge and Trap EPA 5030A

Blank (1812021-BLK1)		Prepared & Analyzed: 23-Mar-18								
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	7680		"	8000		96.0	50-150			

LCS (1812021-BS1)		Prepared & Analyzed: 23-Mar-18								
Benzene	4310	100	ug/kg	5000		86.3	70-130			
Toluene	4330	100	"	5000		86.6	70-130			
Ethylbenzene	4390	100	"	5000		87.9	70-130			
p,m-Xylene	8810	200	"	10000		88.1	70-130			
o-Xylene	4330	100	"	5000		86.7	70-130			
Total Xylenes	13100	100	"	15000		87.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7960		"	8000		99.6	50-150			

Matrix Spike (1812021-MS1)		Source: P803067-01	Prepared & Analyzed: 23-Mar-18							
Benzene	4490	100	ug/kg	5000	ND	89.9	54.3-133			
Toluene	4500	100	"	5000	ND	90.1	61.4-130			
Ethylbenzene	4570	100	"	5000	ND	91.4	61.4-133			
p,m-Xylene	9140	200	"	10000	ND	91.5	63.3-131			
o-Xylene	4500	100	"	5000	ND	90.0	63.3-131			
Total Xylenes	13600	100	"	15000	ND	91.0	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	7880		"	8000		98.5	50-150			

Matrix Spike Dup (1812021-MSD1)		Source: P803067-01	Prepared & Analyzed: 23-Mar-18							
Benzene	4540	100	ug/kg	5000	ND	90.8	54.3-133	0.959	20	
Toluene	4540	100	"	5000	ND	90.8	61.4-130	0.842	20	
Ethylbenzene	4610	100	"	5000	ND	92.2	61.4-133	0.847	20	
p,m-Xylene	9230	200	"	10000	ND	92.3	63.3-131	0.912	20	
o-Xylene	4550	100	"	5000	ND	91.0	63.3-131	1.13	20	
Total Xylenes	13800	100	"	15000	ND	91.9	63.3-131	0.983	20	
Surrogate: 4-Bromochlorobenzene-PID	7890		"	8000		98.6	50-150			

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Hallador 1660 Lincoln St Suite 2700 Colorado NM, 87401	Project Name: Soil Sampling at Horton #3 Project Number: 18010-0001 Project Manager: F.Aragon	Reported: 27-Mar-18 12:14
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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 1812013 - DRO Extraction EPA 3570

Blank (1812013-BLK1)		Prepared & Analyzed: 26-Mar-18								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate n-Nonane	59.0		"	50.0		118	50-200			
LCS (1812013-BS1)		Prepared & Analyzed: 26-Mar-18								
Diesel Range Organics (C10-C28)	463	25.0	mg/kg	500		92.6	38-132			
Surrogate n-Nonane	49.9		"	50.0		99.8	50-200			
Matrix Spike (1812013-MS1)		Source: P803067-01 Prepared & Analyzed: 26-Mar-18								
Diesel Range Organics (C10-C28)	495	25.0	mg/kg	500	ND	98.9	38-132			
Surrogate n-Nonane	50.2		"	50.0		100	50-200			
Matrix Spike Dup (1812013-MSD1)		Source: P803067-01 Prepared & Analyzed: 26-Mar-18								
Diesel Range Organics (C10-C28)	487	25.0	mg/kg	500	ND	97.3	38-132	1.65	20	
Surrogate n-Nonane	49.2		"	50.0		98.5	50-200			

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Hallador	Project Name:	Soil Sampling at Horton #3	Reported:
1660 Lincoln St Suite 2700	Project Number:	18010-0001	27-Mar-18 12:14
Colorado NM, 87401	Project Manager:	F.Aragon	

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 1812021 - Purge and Trap EPA 5030A										
Blank (1812021-BL.K1)				Prepared & Analyzed: 23-Mar-18						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.77		"	8.00		97.1	50-150			
I.CS (1812021-BS2)				Prepared & Analyzed: 23-Mar-18						
Gasoline Range Organics (C6-C10)	50.7	20.0	mg/kg	50.0		101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.13		"	8.00		102	50-150			
Matrix Spike (1812021-MS2)				Source: P803067-01		Prepared & Analyzed: 23-Mar-18				
Gasoline Range Organics (C6-C10)	48.0	20.0	mg/kg	50.0	ND	96.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.98		"	8.00		99.8	50-150			
Matrix Spike Dup (1812021-MSD2)				Source: P803067-01		Prepared & Analyzed: 23-Mar-18				
Gasoline Range Organics (C6-C10)	51.2	20.0	mg/kg	50.0	ND	103	70-130	6.48	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.12		"	8.00		101	50-150			

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Hallador	Project Name:	Soil Sampling at Horton #3	Reported: 27-Mar-18 12:14
1660 Lincoln St Suite 2700	Project Number:	18010-0001	
Colorado NM, 87401	Project Manager:	F.Aragon	

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference

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Project Information

Chain of Custody

Page 1 of 15

Client: Hallador Project: Soil Sampling at Horton #3 Project Manager: F. Aragon Address: City, State, Zip: Phone: Email: Gcrabtree Admin Bhall Faragon				Report Attention Report due by: Email: Address: City, State, Zip: Phone:				Lab Use Only Lab WO# P 803070 Job Number 18010-0001				TAT 1D 3D		EPA Program RCRA CWA SDWA			
								Analysis and Method				State NM CO UT					
												X					
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	8021	8015 DRO/GRO	8015 ORO	Chlorides							Remarks	
0953	3/20/19	S	1	South Wall	1	X	X	X								1-402 jar (001)	
1005			1	South Cup	2	X	X	X									
1009			1	Bottom South	3	X	X	X									
1013			1	West Wall	4	X	X	X									
1015			1	Bottom North	5	X	X	X									
1016			1	North wall	6	X	X	X									
1021			1	North east wall	7	X	X	X									
1024			1	East Wall	8	X	X	X									
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 mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>Bution Hall</u>																	
Relinquished by: (Signature) <u>Bution Hall</u>				Date <u>3/20/19</u>		Time <u>1:35</u>		Received by: (Signature) <u>Al W</u>				Date <u>3/20/19</u>		Time <u>12:35</u>		Lab Use Only 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</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 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.																	

District I
1523 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Bravo Road, Aztec, NM 87410
District IV
20 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-138
Revised 08/01/11
*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

3/22/18 - 40cy
3/22/18 - 100cy
3/22/18 - 100cy
3/19/18 - 80cy

1. Generator Name and Address:
Hallador Petroleum Co. 1660 Lincoln Street, Suite 2700 Denver, CO 80264

2. Originating Site:
Horton 83

Tim Lovseth

3. Location of Material (Street Address, City, State or ULSTR):
SWNE S13, T32N, R12W

3/13/18 - 40cy
3/14/18 - 80cy
3/15/18 - 90cy
3/16/18 - 40cy
3/12/18 - 40cy
3/9/18 - 40cy
3/8/18 - 20cy

4. Source and Description of Waste:
Soils impacted with petroleum hydrocarbons from below grade pit/tank

Estimated Volume 10 yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) 30 yd³ / bbls

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Tim Lovseth, representative or authorized agent for Hallador Petroleum Co. do hereby
Generator Signature

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

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-
exempt waste. Operator Use Only: Waste Acceptance Frequency ☒ Monthly ☐ Weekly ☐ Per Load

☐ 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)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Tim Lovseth, representative for Hallador Petroleum Company authorize IEI to
Generator Signature

complete the required testing/sign the Generator Waste Testing Certification.

I, Stacy Alenito, representative for IEI do hereby certify that
Representative/Agent Signature

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 landforms 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.

6. Transporter: Triple F, EDCO, Billy T

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: JFJ Land farm/Industrial Ecosystems, Inc. - Permit #: NM 01-0010B

Address of Facility: 49 Road 3150 Aztec, NM 87410

Method of Treatment and/or Disposal:

☐ Landfill ☐ Incineration ☐ Other ☐ Other ☐ Other ☐ Other

Generator Signature:

3/22/18

☐ Verifier (to be printed and used as Permanent Record)

Signature of the Generator Representative: Tim Lovseth Date: 3/22/18

CI-7128
pg 7

3/1/18

**Industrial Ecosystems Inc.**

P.O. Box 1202
Flora Vista, NM 87415
Phone - (505) 632-1782
Fax - (505) 632-1876

Invoice

Date	Invoice #
3/8/18	32532

Tax I.D. #94-3200034

PLEASE REMIT PAYMENT TO:
Industrial Ecosystems Inc.
P.O. Box 1202
Flora Vista, NM 87415

Sold To: Hallador Petroleum
1660 Lincoln St., Suite 2700
Denver, CO 80264

Location: Horton #3

IEI WO #	Contact	Date of Service	Payment Terms	Due Date
34019	Tim Lovseth	3/7/18	Net 30	4/7/18
Quantity	Description	Unit Price	Amount	
30	Material Transported by Edco #06			
1	Disposed of Contaminated Soil			
	Solids-Disposal Fee per Cubic Yard	20.00	600.00T	
	Chloride Test	15.00	15.00T	
	Subtotal			615.00
	Sales Tax			40.36
	Received <u>3/16/18</u> KK			
	Approval <u>3-20-18</u> JL			
	Batch # <u>03-KK-14</u>			
	Date Paid _____			
	ACH _____ CK# _____			
	Scanned <u>#4984</u>			
FOR BILLING INQUIRIES PLEASE CALL (505) 632-1782			Total	\$655.36
ACCOUNTS ARE DUE NET 30 DAYS. PURCHASER AGREES TO PAY FINANCE CHARGES OF 1.5% PER MONTH (ANNUAL PERCENTAGE RATE OF 18%) OR A MINIMUM CHARGE OF .50 PER MONTH. ACCOUNTS THAT HAVE BEEN PLACED FOR COLLECTION WILL BE CHARGED A \$100.00 COLLECTION FEE IN ADDITION TO REASONABLE ATTORNEY FEES AND COLLECTION CHARGES.			Balance Due	\$655.36

**Industrial Ecosystems Inc.**

P.O. Box 1202
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Phone - (505) 632-1782
Fax - (505) 632-1876

Invoice

Date	Invoice #
3/9/18	32549

PLEASE REMIT PAYMENT TO:
Industrial Ecosystems Inc.
P.O. Box 1202
Flora Vista, NM 87415

Tax I.D. #94-3200034

Sold To: Hallador Petroleum
1660 Lincoln St., Suite 2700
Denver, CO 80264

Location: Horton #3

IEI WO #	Contact	Date of Service	Payment Terms	Due Date
34028	Tim Lovseth	3/8/18	Net 30	4/8/18
Quantity	Description	Unit Price	Amount	
20	Material Transported by Edco #06 Disposed of Contaminated Soil Solids-Disposal Fee per Cubic Yard Subtotal Sales Tax	20.00 6.5625%	400.00T 400.00 26.25	
FOR BILLING INQUIRIES PLEASE CALL (505) 632-1782				Total \$426.25
ACCOUNTS ARE DUE NET 30 DAYS. PURCHASER AGREES TO PAY FINANCE CHARGES OF 1.5% PER MONTH (ANNUAL PERCENTAGE RATE OF 18%) OR A MINIMUM CHARGE OF .50 PER MONTH. ACCOUNTS THAT HAVE BEEN PLACED FOR COLLECTION WILL BE CHARGED A \$100.00 COLLECTION FEE IN ADDITION TO REASONABLE ATTORNEY FEES AND COLLECTION CHARGES.				Balance Due \$426.25

800,180

Received 3/16/18 KK

Approval 3-20-18 TR

Catch # 03-KK-14

Date Paid _____

ACH _____ CK# _____

Scanned #4984



Industrial Ecosystems Inc.

P.O. Box 1202
Flora Vista, NM 87415
Phone (505) 632-1782
Fax (505) 632-1876

Invoice

Date	Invoice #
3/12/18	32552

PLEASE REMIT PAYMENT TO:
Industrial Ecosystems Inc.
P.O. Box 1202
Flora Vista, NM 87415

Tax I.D. #94-3200034

Sold To: Hallador Petroleum
1660 Lincoln St., Suite 2700
Denver, CO 80264

Location: Horton #3

IEI WO #	Contact	Date of Service	Payment Terms	Due Date
34033	Tim Lovseth	3/9/18	Net 30	4/11/18
Quantity	Description	Unit Price	Amount	
40	Material Transported by Billy T #01 Disposed of Contaminated Soil Solids-Disposal Fee per Cubic Yard	20.00	800.00T	
	Subtotal			800.00
	Sales Tax	6.5625%		52.50
	Received <u>3/14/18</u> <u>KK</u> Approval <u>TL 3-20-18</u> Batch # <u>03-KK-14</u> Date Paid _____ ACH _____ CK# _____ Scanned <u>H9939</u>			
FOR BILLING INQUIRIES PLEASE CALL (505) 632-1782			Total	\$852.50
			Balance Due	\$852.50

ACCOUNTS ARE DUE NET 30 DAYS. PURCHASER AGREES TO PAY FINANCE CHARGES OF 1.5% PER MONTH (ANNUAL PERCENTAGE RATE OF 18%) OR A MINIMUM CHARGE OF .50 PER MONTH. ACCOUNTS THAT HAVE BEEN PLACED FOR COLLECTION WILL BE CHARGED A \$100.00 COLLECTION FEE IN ADDITION TO REASONABLE ATTORNEY FEES AND COLLECTION CHARGES.



Industrial Ecosystems Inc.

P.O. Box 1202
Flora Vista, NM 87415
Phone (505) 632-1782
Fax (505) 632-1876

Tax I.D. #94-3200034

Invoice

Date	Invoice #
3/13/18	32562

PLEASE REMIT PAYMENT TO:
Industrial Ecosystems Inc.
P.O. Box 1202
Flora Vista, NM 87415

Sold To: Hallador Petroleum
1660 Lincoln St., Suite 2700
Denver, CO 80264

Location: Horton #3

IEI WO #	Contact	Date of Service	Payment Terms	Due Date
34042	Tim Lovseth	3/12/18	Net 30	4/12/18
Quantity	Description	Unit Price	Amount	
40	Material Transported by Billy T #01 Disposed of Contaminated Soil Solids-Disposal Fee per Cubic Yard	20.00	800.00T	
	Subtotal	6.5625%	800.00	
	Sales Tax		52.50	
Received <u>3/19/18</u> <u>KK</u> Approval <u>TL 3-20-18</u> Batch # _____ Date Paid _____ ACH _____ CK# _____ Scanned _____				
FOR BILLING INQUIRIES PLEASE CALL (505) 632-1782			Total	\$852.50
			Balance Due	\$852.50

ACCOUNTS ARE DUE NET 30 DAYS. PURCHASER AGREES TO PAY FINANCE CHARGES OF 1.5% PER MONTH (ANNUAL PERCENTAGE RATE OF 18%) OR A MINIMUM CHARGE OF \$0 PER MONTH. ACCOUNTS THAT HAVE BEEN PLACED FOR COLLECTION WILL BE CHARGED A \$100.00 COLLECTION FEE IN ADDITION TO REASONABLE ATTORNEY FEES AND COLLECTION CHARGES.

**Industrial Ecosystems Inc.**

P.O. Box 1202
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Phone (505) 632-1782
Fax (505) 632-1876

Invoice

Date	Invoice #
3/14/18	32565

PLEASE REMIT PAYMENT TO:
Industrial Ecosystems Inc.
P.O. Box 1202
Flora Vista, NM 87415

Tax I.D. #94-3200034

Sold To: Hallador Petroleum
1660 Lincoln St., Suite 2700
Denver, CO 80264

Location: Horton #3

IEI WO #	Contact	Date of Service	Payment Terms	Due Date
34057	Tim Lovseth	3/13/18	Net 30	4/13/18
Quantity	Description	Unit Price	Amount	
40	Material Transported by Billy T #01 Disposed of Contaminated Soil Solids-Disposal Fee per Cubic Yard	20.00		800.00T
	Subtotal			800.00
	Sales Tax	6.5625%		52.50
Received <u>3/15/18</u> <u>142</u> Approval <u>TW 3-20-18</u> Batch # _____ Date Paid _____ ACH _____ CK# _____ Scanned _____				
FOR BILLING INQUIRIES PLEASE CALL (505) 632-1782			Total	\$852.50
			Balance Due	\$852.50

ACCOUNTS ARE DUE NET 30 DAYS. PURCHASER AGREES TO PAY FINANCE CHARGES OF 1.5% PER MONTH (ANNUAL PERCENTAGE RATE OF 18%) OR A MINIMUM CHARGE OF .50 PER MONTH. ACCOUNTS THAT HAVE BEEN PLACED FOR COLLECTION WILL BE CHARGED A \$100.00 COLLECTION FEE IN ADDITION TO REASONABLE ATTORNEY FEES AND COLLECTION CHARGES.

**Industrial Ecosystems Inc.**

P.O. Box 1202
Flora Vista, NM 87415
Phone - (505) 632-1782
Fax - (505) 632-1876

Invoice

Date	Invoice #
3/15/18	32570

PLEASE REMIT PAYMENT TO:
Industrial Ecosystems Inc.
P.O. Box 1202
Flora Vista, NM 87415

Tax I.D. #94-3200034

Sold To: Hallador Petroleum
1660 Lincoln St., Suite 2700
Denver, CO 80264

Location: Horton #3

IEI WO #	Contact	Date of Service	Payment Terms	Due Date
34062	Tim Lovseth	3/14/18	Net 30	4/14/18
Quantity	Description		Unit Price	Amount
80	Material Transported by Billy T & Edco #01 & 06			
	Disposed of Contaminated Soil			
	Solids-Disposal Fee per Cubic Yard		20.00	1,600.00T
	Subtotal			1,600.00
	Sales Tax		6.5625%	105.00
Received <u>3/15/18</u> <u>KK</u> Approval <u>TL 3-20-18</u> Batch # _____ Date Paid _____ ACH _____ CK# _____ Scanned _____				
FOR BILLING INQUIRIES PLEASE CALL (505) 632-1782			Total	\$1,705.00
ACCOUNTS ARE DUE NET 30 DAYS. PURCHASER AGREES TO PAY FINANCE CHARGES OF 1.5% PER MONTH (ANNUAL PERCENTAGE RATE OF 18%) OR A MINIMUM CHARGE OF .50 PER MONTH. ACCOUNTS THAT HAVE BEEN			Balance Due	\$1,705.00

ACCOUNTS ARE DUE NET 30 DAYS. PURCHASER AGREES TO PAY FINANCE CHARGES OF 1.5% PER MONTH (ANNUAL PERCENTAGE RATE OF 18%) OR A MINIMUM CHARGE OF 50 PER MONTH. ACCOUNTS THAT HAVE BEEN PLACED FOR COLLECTION WILL BE CHARGED A \$100.00 COLLECTION FEE IN ADDITION TO REASONABLE ATTORNEY FEES AND COLLECTION CHARGES.



Industrial Ecosystems Inc.

P.O. Box 1202
Flora Vista, NM 87415
Phone - (505) 632-1782
Fax - (505) 632-1876

Invoice

Date	Invoice #
3/16/18	32574

Tax I.D. #94-3200034

PLEASE REMIT PAYMENT TO:
Industrial Ecosystems Inc.
P.O. Box 1202
Flora Vista, NM 87415

Sold To: Hallador Petroleum
1660 Lincoln St., Suite 2700
Denver, CO 80264

Location: Horton #3

IEI WO #	Contact	Date of Service	Payment Terms	Due Date
34071	Tim Lovseth	3/15/18	Net 30	4/15/18
Quantity	Description	Unit Price	Amount	
90	Material Transported by Billy T & Edco #01 & 06 Disposed of Contaminated Soil Solids-Disposal Fee per Cubic Yard	20.00		1,800.00T
	Subtotal			1,800.00
	Sales Tax	6.5625%		118.13
Received <u>3/16/18</u> <u>KK</u> Approval <u>TL 3-20-18</u> Batch # _____ Date Paid _____ ACH _____ CK# _____ Scanned _____				
FOR BILLING INQUIRIES PLEASE CALL (505) 632-1782			Total	\$1,918.13
			Balance Due	\$1,918.13

ACCOUNTS ARE DUE NET 30 DAYS. PURCHASER AGREES TO PAY FINANCE CHARGES OF 1.5% PER MONTH (ANNUAL PERCENTAGE RATE OF 18%) OR A MINIMUM CHARGE OF \$0 PER MONTH. ACCOUNTS THAT HAVE BEEN PLACED FOR COLLECTION WILL BE CHARGED A \$100.00 COLLECTION FEE IN ADDITION TO REASONABLE ATTORNEY FEES AND COLLECTION CHARGES.

Invoice



Industrial Ecosystems Inc.

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Flora Vista, NM 87415
Phone - (505) 632-1782
Fax - (505) 632-1876

Tax I.D. #94-3200034

Date	Invoice #
3/19/18	32589

PLEASE REMIT PAYMENT TO:
Industrial Ecosystems Inc.
P.O. Box 1202
Flora Vista, NM 87415

Sold To: Hallador Petroleum
1660 Lincoln St., Suite 2700
Denver, CO 80264

Location: Horton #3

IEI WO #	Contact	Date of Service	Payment Terms	Due Date
34702	Tim Lovseth	3/16/18	Net 30	4/18/18
Quantity	Description		Unit Price	Amount
40	Material Transported by Edco #06			
	Disposed of Contaminated Soil			
	Solids-Disposal Fee per Cubic Yard		20.00	800.00T
	Subtotal			800.00
	Sales Tax		6.5625%	52.50
Received _____ Approval <u>TML 4-18-18</u> Batch # _____ Date Paid _____ ACH _____ CK# _____ Scanned _____				
FOR BILLING INQUIRIES PLEASE CALL (505) 632-1782			Total	\$852.50
			Balance Due	\$852.50

ACCOUNTS ARE DUE NET 30 DAYS. PURCHASER AGREES TO PAY FINANCE CHARGES OF 1.5% PER MONTH (ANNUAL PERCENTAGE RATE OF 18%) OR A MINIMUM CHARGE OF .50 PER MONTH. ACCOUNTS THAT HAVE BEEN

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Industrial Ecosystems Inc.

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Flora Vista, NM 87415
Phone - (505) 632-1782
Fax - (505) 632-1876

Invoice

Date	Invoice #
3/20/18	32592

PLEASE REMIT PAYMENT TO:
Industrial Ecosystems Inc.
P.O. Box 1202
Flora Vista, NM 87415

Tax I.D. #94-3200034

Sold To: Hallador Petroleum
1660 Lincoln St., Suite 2700
Denver, CO 80264

Location: Horton #3

IEI WO #	Contact	Date of Service	Payment Terms	Due Date
34712	Tim Lovseth	3/19/18	Net 30	4/19/18
Quantity	Description	Unit Price	Amount	
80	Material Transported by Edco & Billy T #06 & 01 Disposed of Contaminated Soil Solids-Disposal Fee per Cubic Yard	20.00	1,600.00T	
	Subtotal	6.5625%	1,600.00	
	Sales Tax		105.00	
Received _____ Approval <u>TM 4-9-18</u> Batch # _____ Date Paid _____ ACH _____ CK# _____ Scanned _____				
FOR BILLING INQUIRIES PLEASE CALL (505) 632-1782				
Total				\$1,705.00
Balance Due				\$1,705.00

ACCOUNTS ARE DUE NET 30 DAYS. PURCHASER AGREES TO PAY FINANCE CHARGES OF 1.5% PER MONTH (ANNUAL PERCENTAGE RATE OF 18%) OR A MINIMUM CHARGE OF .50 PER MONTH. ACCOUNTS THAT HAVE BEEN PLACED FOR COLLECTION WILL BE CHARGED A \$100.00 COLLECTION FEE IN ADDITION TO REASONABLE ATTORNEY FEES AND COLLECTION CHARGES.

**Industrial Ecosystems Inc.**

P.O. Box 1202
Flora Vista, NM 87415
Phone - (505) 632-1782
Fax - (505) 632-1876

Invoice

Date	Invoice #
3/21/18	32602

Tax I.D. #94-3200034

PLEASE REMIT PAYMENT TO:
Industrial Ecosystems Inc.
P.O. Box 1202
Flora Vista, NM 87415

Sold To: Hallador Petroleum
1660 Lincoln St., Suite 2700
Denver, CO 80264

Location: Horton #3

IEI WO #	Contact	Date of Service	Payment Terms	Due Date
34721	Tim Lovseth	3/20/18	Net 30	4/20/18
Quantity	Description	Unit Price	Amount	
100	Material Transported by Edco & Billy T #06 & 01 Disposed of Contaminated Soil Solids-Disposal Fee per Cubic Yard	20.00	2,000.00T	
	Subtotal		2,000.00	
	Sales Tax	6.5625%	131.25	
Received <u>4/2/18</u> <u>RL</u> Approval <u>TL 4-9-18</u> Batch # _____ Date Paid _____ ACH _____ CK# _____ Scanned _____				
FOR BILLING INQUIRIES PLEASE CALL (505) 632-1782			Total	\$2,131.25
ACCOUNTS ARE DUE NET 30 DAYS. PURCHASER AGREES TO PAY FINANCE CHARGES OF 1.5% PER MONTH (ANNUAL PERCENTAGE RATE OF 18%) OR A MINIMUM CHARGE OF 50 PER MONTH. ACCOUNTS THAT HAVE BEEN PLACED FOR COLLECTION WILL BE CHARGED A \$100.00 COLLECTION FEE IN ADDITION TO REASONABLE ATTORNEY FEES AND COLLECTION CHARGES.			Balance Due	\$2,131.25

**Industrial Ecosystems Inc.**

P.O. Box 1202
Flora Vista, NM 87415
Phone - (505) 632-1782
Fax - (505) 632-1876

Invoice

Date	Invoice #
3/22/18	32624

Tax I.D. #94-3200034

PLEASE REMIT PAYMENT TO:
Industrial Ecosystems Inc.
P.O. Box 1202
Flora Vista, NM 87415

Sold To: Hallador Petroleum
1660 Lincoln St., Suite 2700
Denver, CO 80264

Location: Horton #3

IEI WO #	Contact	Date of Service	Payment Terms	Due Date
34730	Tim Lovseth	3/21/18	Net 30	4/21/18
Quantity	Description		Unit Price	Amount
100	Material Transported by Edco & Billy T #06 & 01			
	Disposed of Contaminated Soil			
	Solids-Disposal Fee per Cubic Yard		20.00	2,000.00T
	Subtotal			2,000.00
	Sales Tax		6.5625%	131.25
Received <u>4/2/18</u> <u>KK</u> Approval <u>TM 4-9-18</u> Batch # _____ Date Paid _____ ACH _____ CK# _____ Scanned _____				
FOR BILLING INQUIRIES PLEASE CALL (505) 632-1782			Total	\$2,131.25
ACCOUNTS ARE DUE NET 30 DAYS. PURCHASER AGREES TO PAY FINANCE CHARGES OF 1.5% PER MONTH (ANNUAL PERCENTAGE RATE OF 18%) OR A MINIMUM CHARGE OF .50 PER MONTH. ACCOUNTS THAT HAVE BEEN PLACED FOR COLLECTION WILL BE CHARGED A \$100.00 COLLECTION FEE IN ADDITION TO REASONABLE			Balance Due	\$2,131.25

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Invoice

Date	Invoice #
3/23/18	32634

Tax I.D. #94-3200034

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Industrial Ecosystems Inc.
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Flora Vista, NM 87415

Sold To: Hallador Petroleum
1660 Lincoln St., Suite 2700
Denver, CO 80264

Location: Horton #3

IEI WO #	Contact	Date of Service	Payment Terms	Due Date
34742	Tim Lovseth	3/22/18	Net 30	4/22/18
Quantity	Description	Unit Price	Amount	
40	Material Transported by Edco & Billy T #06 & 01 Disposed of Contaminated Soil Solids-Disposal Fee per Cubic Yard	20.00	800.00T	
	Subtotal			
	Sales Tax	6.5625%	800.00 52.50	
FOR BILLING INQUIRIES PLEASE CALL (505) 632-1782				
Total				\$852.50
Balance Due				\$852.50

Subtotal
Sales Tax

Received 4/2/18 KK

Approval 102-4-9-18

Batch # _____

Date Paid _____

ACH _____ CK# _____

Scanned _____

ARE DUE NET 30 DAYS. PURCHASER AGREES TO PAY FINANCE CHARGES OF 1.5% PER MONTH
PERCENTAGE RATE OF 18%) OR A MINIMUM CHARGE OF \$50 PER MONTH. ACCOUNTS THAT HAVE BEEN
COLLECTION WILL BE CHARGED A \$100.00 COLLECTION FEE IN ADDITION TO REASONABLE
FEES AND COLLECTION CHARGES