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: Osborn Heirs Company	OGRID 16616
Contact Name: Gary Cunningham	Contact Telephone (210) 826-0700 ext. 222
Contact email: garyc@osbornheirs.com	Incident # *(assigned by OCD)*
Contact mailing address: P.O. Box 17968, San Antonio, Texas 78217	

Location of Release Source

Latitude 32.8675 Longitude 103.1797
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Mattie Price	Site Type Tank Battery Crude Oil
Date Release Discovered April 5, 2019	API# *(if applicable)* N/A (tank battery) 30-025-23439

Unit Letter	Section	Township	Range	County
H	06	17S	38E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* Phillip Berry)

Nature and Volume of Release

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

☐ Crude	Volume Released (bbls) 7 barrels	Volume Recovered (bbls) 6 barrels
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:
The Mattie Price #1, and inactive well, began flowing causing the stock tank to overflow. The release was completely contained within the secondary containment area.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?
If YES, for what reason(s) does the responsible party consider this a major release?

☐ Yes ☐ No	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

- ☐ The source of the release has been stopped.
- ☐ The impacted area has been secured to protect human health and the environment.
- ☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☐ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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: Gary Cunningham Title: Superintendent

Signature: Gary O. Cunningham Date: April 12, 2019

email: garyc@osbornheirs.com Telephone: (210) 826-0700 ext 222

OCD Only
Received by: _____ Date: _____

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Page 3

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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? 74 (ft bgs)

Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ 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)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ 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?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☒ Xes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ 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.

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State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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: Gary Cunningham
Signature: Gary D. Cunningham Date: April 12, 2019

email: garyc@osbornheirs.com Telephone: (210) 826-0700 ext 222

OCD Only

Received by: _____ Date: _____

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State of New Mexico
Oil Conservation Division

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Application ID	

Remediation Plan

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

- [X] Detailed description of proposed remediation technique
- [X] Scaled sitemap with GPS coordinates showing delineation points
- [X] Estimated volume of material to be remediated
- [X] Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- [X] 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: Gary Cunningham Title: Superintendent

Signature: Gary D. Cunningham Date: 04/12/2019

email: garyc@osbornheirs.com Telephone: (210) 826-0700 ext 222

OCD Only

Received by: _____ Date: _____

- [ ] Approved
- [ ] Approved with Attached Conditions of Approval
- [ ] Denied
- [ ] Deferral Approved

Signature: Nelson Velez Date: 09/13/2023

Please meet the requirements per Subsection D & E of 19.15.29.12 NMAC prior to submitting the applicable documentation. Operator has 90-days (December 12, 2023) to submit its appropriate or final closure report.

Osborn Heirs Company

Mattie Price Tank Battery
Section 06, Township 17S, Range 38E
Lea County, New Mexico

Delineation Report & Work Plan
NAPP 2118332198 (1R-421)
NAPP 2118730210 (1RP-2047)
NRM1926758725 (1RP-5686)

April 24, 2019
Amended May 30, 2023

Prepared for:

Osborn Heirs Company
P.O. Box 17968
San Antonio, TX 78217

By:

Safety & Environmental Solutions, Inc.
703 East Clinton Street
Hobbs, New Mexico 88240
(575) 397-0510

I. Company Contacts

Representative	Company	Telephone	E-mail
Gary Cunningham	Osborn Heirs Co.	210-826-0700	garyc@osbornheirs.com
Bob Allen	Safety & Environmental Solutions, Inc.	575-397-0510	ballen@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by Osborn Heirs Company representatives, to assess site impact with the open NMOCD permit of **1RP-421**, an open remediation permit assigned number **1RP-2047**, as well as a recent spill event that has been assigned **1RP-5686.**

NAPP 2118332198 (1R-421)

According to the site investigation report dated March 2005 and submitted to the NMOCD: Kane Environmental engineering, Inc. was consulted by Osborn Heirs Company to assess and delineate for historical impact to this site

NAPP 2118730210 (1RP-2047)

According to a subsequent C-141 and spill notification to the NMOCD dated December 25, 2008: The cone shaped bottom of an oil production tank ruptured without any warning. Upon discovery of the release, production was switched to another tank and a vacuum truck was mobilized. When the tank bottom gave way, oil, paraffin and sludge traversed the facility location. Some fluid was absorbed into the soil, while soil-paraffin and sludge formed a crust at the surface. Approximately 5bbls of fluid was picked up by the vacuum truck and transported to a certified disposal center. No oil or other material impacted the pasture area. The affected area measured approximately 100 ft. X 25 ft.

NRM1926758725 (1RP-5686)

According to the most recent event that occurred on April 05, 2019 as was reported on the C-141: The Mattie Price, being an inactive well began flowing, thereby causing the stock tank to overflow. The release was completely contained in the secondary containment area. Approximately 98 square yards of surface area was impacted.

III. Surface and Ground Water

Research of the New Mexico Office of the State Engineer records indicates the depth to groundwater for Section 6, Township 17S, and Range 38E to be 75' bgs. The nearest POD Number L 00904 is located approximately 1 mile from the Mattie Price Battery.

IV. Characterization

Table I
Closure Criteria for Soils Impacted by a Release

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

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

*Or other test methods approved by the division.
**Numerical limits or natural background level, whichever is greater.
***This applies to releases of produced water or other fluids, which may contain chloride.
[19.15.29.12 NMAC - N, 8/14/2018]

The target cleanup levels are determined using the NMAC 19.15.29 revisions dated July 24, 2018. The soil screening criteria presented below, and the applicable Recommended Remediation Action Levels (RRAL) are 10 parts per million (ppm) Benzene, 50 ppm combined Benzene, Toluene, Ethyl Benzene, and Total Xylenes (BTEX), and 2,500 ppm Total Petroleum Hydrocarbons (TPH). Characterization of vertical extent of chloride concentration to a level below 10,000 ppm. Less than 600 mg/kg (PPM) is also required for pasture impact. The soil in this area is characterized as a Simona-Pajarito association that is characterized by sandy, deep soils, and soils that are shallow to caliche; from wind-worked deposits.

V. Work Performed

Site activities for this site commenced in 2005 for Remediation Permit Number 1R421 by Kane Environmental with the submittal of a work plan to the NMOCD. The following is a recap of the environmental activities that followed:

- June 2005: The subsurface affected material was delineated to below the threshold values for remediation guidelines at that time.
- January 2006: Three monitoring wells that were installed in 2006 and were sampled. Samples from these wells verified that no groundwater impacts were present. The remediation threshold values of 10,000 mg/kg total petroleum hydrocarbons (TPH), 10 mg/kg benzene and 50 mg/kg total benzene, toluene, ethylbenzene and xylenes (BTEX) were also finalized.
- January 2006: 332 cubic yards of affected material was excavated and properly disposed of at J & L Landfarm of Hobbs, NM (Permit #NM-01-0023) for treatment and disposal.
- January 2006: Eleven remediation wells were installed to access the affected zone between 10 and 25 feet. Sparge remediation was initiated using a household compressor at a pressure of 15 psi with an unknown flow rate.
- November 2006: Kane environmental directed the installation of four soil borings in order to verify remediation results, using an Air/Rotary drilling rig. Those results are included in the report to NMOCD dated December 01, 2006.
- June 2007: The number of active air-injection wells was decreased to six upon verification that the hydrocarbon concentration in the other areas were below the threshold values. June 2008: The subsurface material sampling was completed and RL's verified.

On April 05, 2019, subsequent to the third release assigned (1RP-5686), SESI was consulted to assess and remediate the Mattie Price Tank Battery. On April 09, 2019 SESI personnel together with personnel from Osborn Heirs Company were on location to assign and flag the area for auger hole installation. The auger holes were advanced to the point of

refusal. Soil samples were field tested intermittently for Chloride and Petroleum Hydrocarbons. The field results at auger hole #1 for TPH were 40 mg/kg, and chloride levels were <128 mg.kg. Soil samples were grabbed at surface, and one-foot increments, field tested, and packaged for laboratory confirmation. All samples were properly packaged, labeled, preserved, and transported to Cardinal Laboratories via Chain of Custody for analyses. The following constituencies were analyzed: Chloride (Cl Method 300.0 Anions), Total Petroleum Hydrocarbons (TPH Method 8015), and Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX Method 8021B). The table below is a recap and tabulation of the results from the Cardinal Laboratories analyses for ease of reference.

Osborn Heirs Company Mattie Price Tank Battery Soil Sample Results: Cardinal Labor Environmental Laboratories 04/19/2019									
Sample ID	**Chloride**	**GRO**	**DRO**	**EXT DRO**	**Benzene**	**Toluene**	**Ethyl benzene**	**Total Xylenes**	**Total BTEX**
AH-2 Surface	**768**	**14200**	**37500**	**4600**	<1.00	**27.6**	**19.4**	**118**	**164**
AH-2 1.5 ft	**96**	**66.9**	**669**	**77.2**	<0.050	**0.105**	**0.242**	**1.78**	**2.13**
AH-3 Surface	**800**	**12800**	**37800**	**4700**	<1.00	**22.7**	**18.2**	**112**	**153**
AH-3 1ft	**96**	**49.9**	**453**	**55.4**	<0.050	**0.084**	**0.234**	**1.63**	**1.95**
AH-4 Surface	**784**	**11900**	**34100**	**5280**	**0.508**	**24**	**18.8**	**114**	**157**
AH-4 1ft	**80**	**49.2**	**418**	**81.7**	<0.050	**0.108**	**0.274**	**1.9**	**2.28**

Based on the confirmed laboratory results from Cardinal Laboratories and auger refusal, steps were taken to initiate soil boring activity.

On May 28, 2019 SESI personnel revisited the site in order to flag the location for New Mexico One Call clearance. SESI personnel observed that the air sparging system had been removed. A call was placed to Mr. Cunningham with Osborn Heirs Company to confirm the removal. SESI personnel were told that the lease operator had received a landowner complaint that initiated the removal of the system.

On July 17, 2019 SESI personnel, together with personnel and equipment from Enviro-drill revisited the site in order to extract soil borings for confirmation of vertical extent. Four (4) sites were designated in the proximity of the spill areas. The boring extractions were preserved, packaged, and transported to Cardinal Laboratories via Chain of Custody for analyses of the following constituencies: Chloride (Cl Method 300.0 Anions), Total Petroleum Hydrocarbons (TPH Method 8015), and Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX Method 8021B). The table below is a recap and tabulation of the results from the Cardinal Laboratories analyses for ease of reference:

Osborn Heirs Company Mattie Price Tank Battery Soil Sample Results: Cardinal Labor Environmental Laboratories 07/17/2019									
Sample ID	**Chloride**	**GRO**	**DRO**	**EXT DRO**	**Benzene**	**Toluene**	**Ethyl benzene**	**Total Xylenes**	**Total BTEX**
B-1 0-2, Base	304	806	6800	647	<0.050	<0.050	<0.050	1.39	1.39
B-1 0-2, 1'	576	<10.0	1840	460	<0.050	<0.050	0.056	<0.150	<0.300
B-1 5-7'	80	84.7	1210	146	<0.050	<0.050	<0.050	0.585	0.585
B-1 10-12'	48.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
B-1 15-17'	48.0	<10.0	12.2	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
B-1 30-32'	16.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
B-2 2'	80.0	496	1050	98.3	0.349	3.31	3.41	4.07	11.1
B-2 5-7'	48.0	<10.0	69.7	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
B-2 10-12'	160	<10.0	2570	497	<0.050	<0.050	<0.050	<0.150	<0.300
B-2 15-17'	176	<10.0	13.7	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300

Osborn Heirs Company Mattie Price Tank Battery Soil Sample Results: Cardinal Labor Environmental Laboratories 07/17/2019									
Sample ID	**Chloride**	**GRO**	**DRO**	**EXT DRO**	**Benzene**	**Toluene**	**Ethyl benzene**	**Total Xylenes**	**Total BTEX**
B-2 20-22'	160	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
B-2 25-27'	80.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
B-2 30-32'	48.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
B-3 0-2'	912	<10.0	146	18.7	<0.050	<0.050	<0.050	<0.150	<0.300
B-3 2-4'	288	<10.0	15.2	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
B-3 5-7'	32.0	<10.0	19.7	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
B-3 10-12'	48.0	<10.0	20.5	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
B-3 15-17'	32.0	<10.0	14.2	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
B-3 25-27'	32.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	0.206	<0.300
B-3 30-32'	80.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
B-4 0-2'	16.0	<10.0	511	178	<0.050	<0.050	<0.050	<0.150	<0.300
B-4 2-4'	32.0	<10.0	10.4	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
B-4 4-6'	32.0	<10.0	725	197	<0.050	<0.050	<0.050	<0.150	<0.300
B-4 10-12'	16.0	<10.0	142	38.2	<0.050	<0.050	<0.050	<0.150	<0.300
B-4 15-17'	16.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
B-4 20-22'	16.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
B-4 25-27'	16.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
B-4 30-32'	32.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300

On May 17, 2023, SESI personnel arrive at the windmill owned by Mr. Phillip Berry with his permission to determine the top of groundwater in the well. We gained access to the well and, using a 100' water level meter, attempted to determine the top of the groundwater. The tape was fully extended to 101' bgs and no water was encountered at that depth in the well.

VI. Action Plan

Based upon the return results of the soil bore analyses from Hall Laboratories, Chlorides were not the constituency of concern. Upon further review of the Cane Environmental report dated March 2005 as was submitted to the NMOCD: SESI advanced soil bores labeled B-1 and B-2 respectively, in the same proximity as "Test Point A" in the Cane Environmental analysis. The subsequent spills were in the same proximity, so further delineation of this area was deemed prudent to confirm previous remediation efforts, as well as vertical delineation. SESI proposes to confirm the horizontal remediation through sidewall soil samples, simultaneously throughout the removal of impacted soils. Furthermore, SESI proposes the removal of impacted soils that are <2,500 TPH and <20,000 ppm Chlorides as will be confirmed with bottom and sidewall soil samples. The battery pad area is comprised of fine grade caliche. Upon completion of remedial activity, SESI will restore the pad area with comparable material and return to grade. All impacted soil will be transported to an NMOCD approved facility for disposal and confirmed with disposal manifests.

VII. Request for Closure

All closure documentation will be drafted and submitted to the proper parties of concern.

VII. Supplemental Documentation

Document 1: Vicinity Map
Document 2: OSE Information
Document 3: BLM Cave Karst Map
Document 4: TOW Determination Memo
Document 5: Site Photographs
Document 6: Lab Analysis
Document 7: Correspondence

Mattie Price Battery

Vicinity Map (POD)

Legend

Feature 2

Untitled Path

16S 38E

36

31

32

33

Mattie Price Tank Battery

Nearest POD

01

06

05

04

17S 38E

12

07

08

09

N

1 mi

Survey Google Earth

Mattie Price Battery

Site Remediation Plan

Legend

- Mattie Price Tank Battery
- Soil Bore
- Spill Area

Mattie Price Tank Battery

AH 4 @ 1ft

AH-3 @ 1ft

AH-2 @ 1.5ft

AH-1 to Refusal

BH-3

BH-2

BH-4

BH-1

Survey Google Earth

N

50 ft

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Twn	Rng	X	Y		Depth Well	Depth Water	Water Column
L 00904		L	LE	2	1	3	06	17S	38E	669072	3637520*		130	75	55

Average Depth to Water: **75 feet**

Minimum Depth: **75 feet**

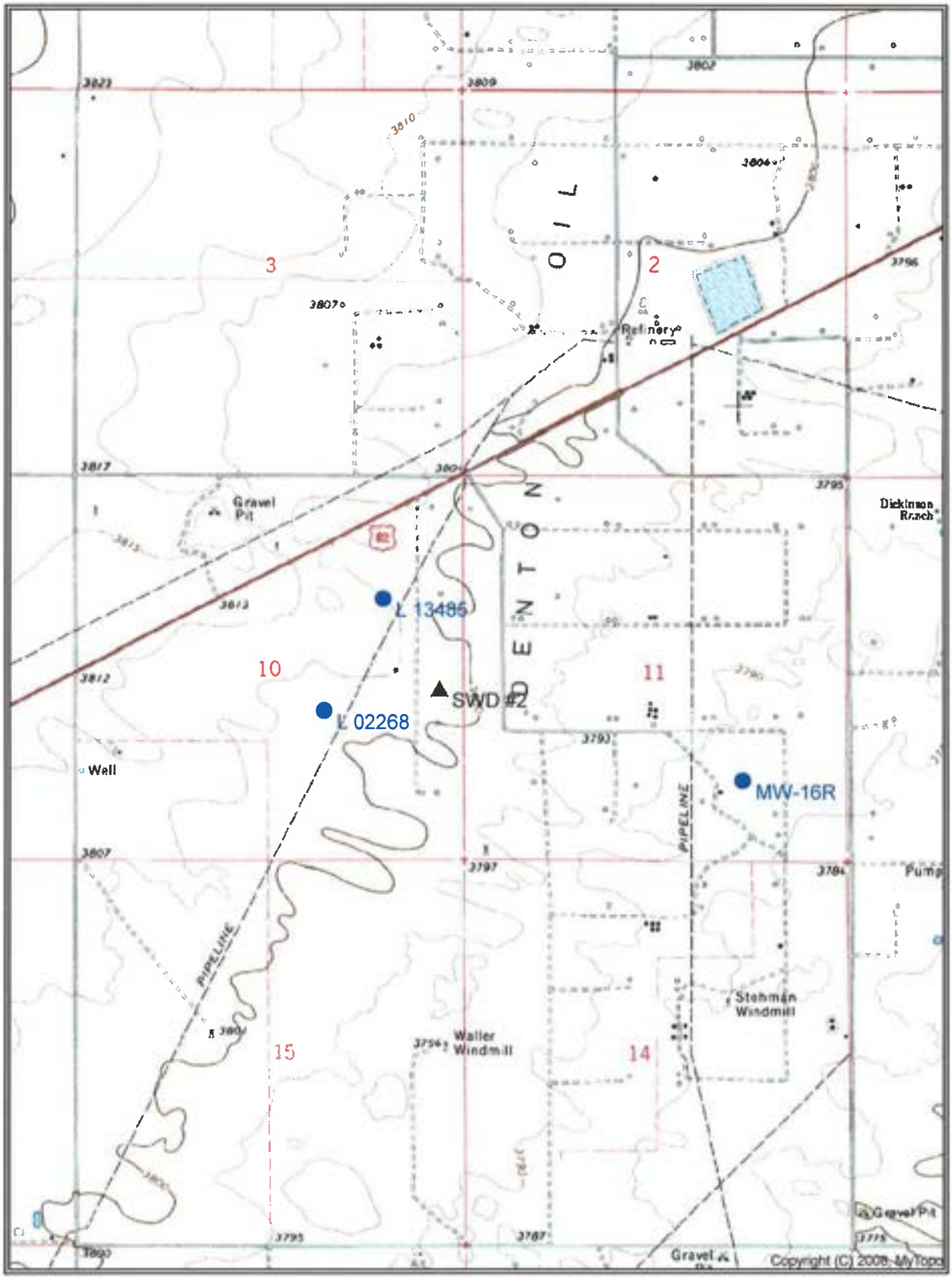
Maximum Depth: **75 feet**

Record Count: 1

PLSS Search:

Section(s): 06 **Township:** 17S **Range:** 38E

***UTM location was derived from PLSS - see Help**



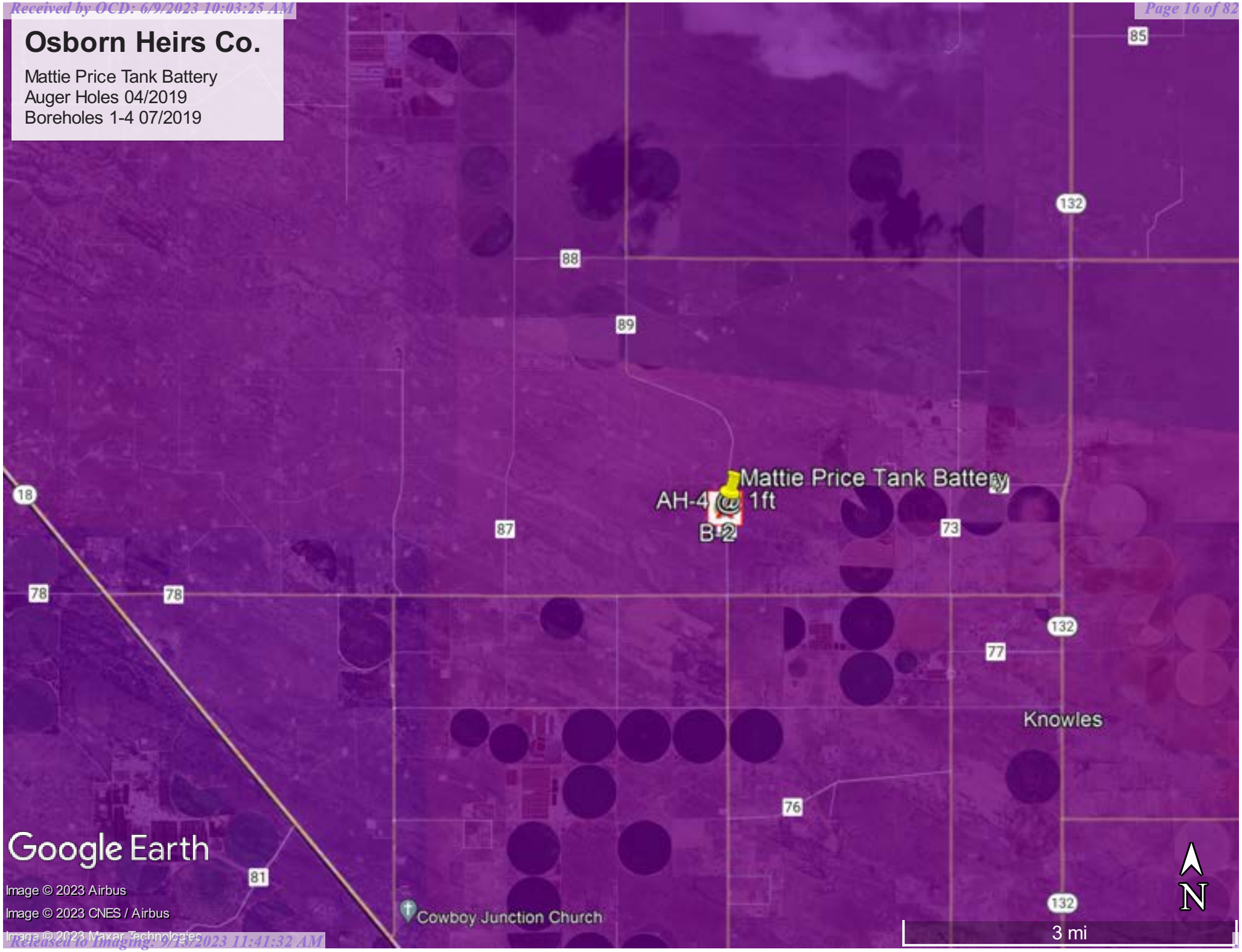
SCALE 1:24000

0 1000 2000 3000 4000 5000 6000

FEET

Osborn Heirs Co.

Mattie Price Tank Battery
Auger Holes 04/2019
Boreholes 1-4 07/2019



May 23, 2020

To: File
From: David G Boyer P.G.

Subject: Top of Water Determination

On Wednesday May 17 I accompanied Bob Allen, SESI President, and Hayden Able, SESI technician, to a windmill on property owned by Mr. Phillip Berry to determine if groundwater was present greater than a depth of 100 feet at that location. The location of the windmill is 900 feet from the Mattie Price battery location (see attached map). SESI had received permission from Mr. Berry to visit the windmill location.

The windmill is located at GPS decimal coordinates 32.865462 degrees North and -103.180639 degrees West. New Mexico State Plane Coordinates are SE/4 NE/4, Section 6, T17S, R38E. No record of the windmill was found in the NM Office of the State Engineer water well database.

Water level measurements were made with a Geotech Water Level meter with 101 feet of tape and a steel tip probe at the end (see photos). The meter was tested for operation before leaving the SESI office and again on arrival at the location. The probe and tape were lowered into the well to its maximum length without detecting groundwater.

As a result of this determination and location of the windmill with respect to the battery, closure criteria for remediation of impacted soils at the Mattie Price battery will be those constituent levels listed for sites having groundwater greater than 100 feet below ground surface.

David G. Boyer, P.G.
Hydrogeologist
Safety & Environmental Solutions, Inc.
703 East Clinton St.
P.O. Box 1613
Hobbs, New Mexico 88241
(575) 397-0510 (office)
(575) 393-4388 (fax)
(575) 390-7067 (cell)


Mattie Price
Legend
Google Earth


May 17, 2023 at 11:14:14 AM
32° 51' 55.915" N, 103° 10' 52.301" W
Lea County
N
W
E
S


May 17, 2023 at 11:14:31 AM
32° 51' 55.915" N, 103° 10' 52.301" W
Lea County
N
W
E
S


May 17, 2023 at 11:14:37 AM
32° 51' 55.915" N, 103° 10' 52.301" W
Lea County
N
W
E
S


May 17, 2023 at 11:16:46 AM
32° 51' 55.584" N, 103° 10' 52.321" W
Lea County
GEOTECH ENVIRONMENTAL EQUIPMENT, INC.
1-800-833-7958
On/Sensitivity
geotech Water Level Meter
WWW.GEOTECHENV.COM
Serial# 4913
N
W
E
S


May 17, 2023 at 11:17:31 AM
32° 51' 55.584" N, 103° 10' 52.321" W
Lea County
N
W
E
S

OSBORN HEIRS COMPANY
MATTIE PRICE TANK BATTERY

Spill 3-19-14

Source

Impact Looking East (Same as 04/19/19 Incident)

OSBORN HEIRS COMPANY
MATTIE PRICE TANK BATTERY

5-6-14 test trenches

Impacted soil removal

Excavation 5-6-14

Stockpile 5-6-14

OSBORN HEIRS COMPANY
MATTIE PRICE TANK BATTERY

Spill Source 04-05-19

Spill Area

Impacted Area Looking East

Drill Rig- Soil Bore at source

CARDINAL Laboratories

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

April 12, 2019

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: OSB - 19 - 001

Enclosed are the results of analyses for samples received by the laboratory on 04/09/19 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OSB - 19 - 001 Project Number: NONE GIVEN Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 12-Apr-19 14:55

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH - 2 SURFACE	H901292-01	Soil	09-Apr-19 00:00	09-Apr-19 14:30
AH - 2 1.5'	H901292-02	Soil	09-Apr-19 00:00	09-Apr-19 14:30
AH - 3 SURFACE	H901292-03	Soil	09-Apr-19 00:00	09-Apr-19 14:30
AH - 3 1'	H901292-04	Soil	09-Apr-19 00:00	09-Apr-19 14:30
AH - 4 SURFACE	H901292-05	Soil	09-Apr-19 00:00	09-Apr-19 14:30
AH - 4 1'	H901292-06	Soil	09-Apr-19 00:00	09-Apr-19 14:30

BTEX 8021 results did not confirm via 8260. Results were about 5x higher via 8021 method vs 8260. This was due to the large amount of interfering compounds present in the samples.

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OSB - 19 - 001 Project Number: NONE GIVEN Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 12-Apr-19 14:55

AH - 2 SURFACE

H901292-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**768**		16.0	mg/kg	4	9040914	AC	10-Apr-19	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										**S-04**
Benzene*	<1.00		1.00	mg/kg	1000	9041001	MS	11-Apr-19	8021B	QM-07
Toluene*	**27.6**		1.00	mg/kg	1000	9041001	MS	11-Apr-19	8021B	QM-07
Ethylbenzene*	**19.4**		1.00	mg/kg	1000	9041001	MS	11-Apr-19	8021B	QM-07
Total Xylenes*	**118**		3.00	mg/kg	1000	9041001	MS	11-Apr-19	8021B	QM-07
Total BTEX	**164**		6.00	mg/kg	1000	9041001	MS	11-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*182 %*	*73.3-129*		*9041001*	MS	*11-Apr-19*	*8021B*	
Petroleum Hydrocarbons by GC FID										**S-06**
GRO C6-C10*	**14200**		50.0	mg/kg	5	9040912	MS	09-Apr-19	8015B	
DRO >C10-C28*	**37500**		50.0	mg/kg	5	9040912	MS	09-Apr-19	8015B	
EXT DRO >C28-C36	**4600**		50.0	mg/kg	5	9040912	MS	09-Apr-19	8015B	
Surrogate: 1-Chlorooctane			*656 %*	*41-142*		*9040912*	MS	*09-Apr-19*	*8015B*	
Surrogate: 1-Chlorooctadecane			*1090 %*	*37.6-147*		*9040912*	MS	*09-Apr-19*	*8015B*	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OSB - 19 - 001 Project Number: NONE GIVEN Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 12-Apr-19 14:55

AH - 2 1.5'

H901292-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**96.0**		16.0	mg/kg	4	9040914	AC	10-Apr-19	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										**S-04**
Benzene*	<0.050		0.050	mg/kg	50	9041001	MS	10-Apr-19	8021B	
Toluene*	**0.105**		0.050	mg/kg	50	9041001	MS	10-Apr-19	8021B	
Ethylbenzene*	**0.242**		0.050	mg/kg	50	9041001	MS	10-Apr-19	8021B	
Total Xylenes*	**1.78**		0.150	mg/kg	50	9041001	MS	10-Apr-19	8021B	
Total BTEX	**2.13**		0.300	mg/kg	50	9041001	MS	10-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*151 %*	*73.3-129*		*9041001*	MS	*10-Apr-19*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	**66.9**		10.0	mg/kg	1	9040912	MS	09-Apr-19	8015B	
DRO >C10-C28*	**669**		10.0	mg/kg	1	9040912	MS	09-Apr-19	8015B	
EXT DRO >C28-C36	**77.2**		10.0	mg/kg	1	9040912	MS	09-Apr-19	8015B	
Surrogate: 1-Chlorooctane			*118 %*	*41-142*		*9040912*	MS	*09-Apr-19*	*8015B*	
Surrogate: 1-Chlorooctadecane			*130 %*	*37.6-147*		*9040912*	MS	*09-Apr-19*	*8015B*	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OSB - 19 - 001 Project Number: NONE GIVEN Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 12-Apr-19 14:55

AH - 3 SURFACE

H901292-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**800**		16.0	mg/kg	4	9040914	AC	10-Apr-19	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										**S-04**
Benzene*	<1.00		1.00	mg/kg	1000	9041001	MS	11-Apr-19	8021B	
Toluene*	**22.7**		1.00	mg/kg	1000	9041001	MS	11-Apr-19	8021B	
Ethylbenzene*	**18.2**		1.00	mg/kg	1000	9041001	MS	11-Apr-19	8021B	
Total Xylenes*	**112**		3.00	mg/kg	1000	9041001	MS	11-Apr-19	8021B	
Total BTEX	**153**		6.00	mg/kg	1000	9041001	MS	11-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*181 %*	*73.3-129*		*9041001*	MS	*11-Apr-19*	*8021B*	
Petroleum Hydrocarbons by GC FID										**S-06**
GRO C6-C10*	**12800**		50.0	mg/kg	5	9040912	MS	09-Apr-19	8015B	
DRO >C10-C28*	**37800**		50.0	mg/kg	5	9040912	MS	09-Apr-19	8015B	
EXT DRO >C28-C36	**4700**		50.0	mg/kg	5	9040912	MS	09-Apr-19	8015B	
Surrogate: 1-Chlorooctane			*642 %*	*41-142*		*9040912*	MS	*09-Apr-19*	*8015B*	
Surrogate: 1-Chlorooctadecane			*1090 %*	*37.6-147*		*9040912*	MS	*09-Apr-19*	*8015B*	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OSB - 19 - 001 Project Number: NONE GIVEN Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 12-Apr-19 14:55

AH - 3 1'

H901292-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**96.0**		16.0	mg/kg	4	9040914	AC	10-Apr-19	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										**S-04**
Benzene*	<0.050		0.050	mg/kg	50	9041001	MS	10-Apr-19	8021B	
Toluene*	**0.084**		0.050	mg/kg	50	9041001	MS	10-Apr-19	8021B	
Ethylbenzene*	**0.234**		0.050	mg/kg	50	9041001	MS	10-Apr-19	8021B	
Total Xylenes*	**1.63**		0.150	mg/kg	50	9041001	MS	10-Apr-19	8021B	
Total BTEX	**1.95**		0.300	mg/kg	50	9041001	MS	10-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*150 %*	*73.3-129*		*9041001*	MS	*10-Apr-19*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	**49.9**		10.0	mg/kg	1	9041004	MS	10-Apr-19	8015B	
DRO >C10-C28*	**453**		10.0	mg/kg	1	9041004	MS	10-Apr-19	8015B	
EXT DRO >C28-C36	**55.4**		10.0	mg/kg	1	9041004	MS	10-Apr-19	8015B	
Surrogate: 1-Chlorooctane			*105 %*	*41-142*		*9041004*	MS	*10-Apr-19*	*8015B*	
Surrogate: 1-Chlorooctadecane			*99.9 %*	*37.6-147*		*9041004*	MS	*10-Apr-19*	*8015B*	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OSB - 19 - 001 Project Number: NONE GIVEN Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 12-Apr-19 14:55

AH - 4 SURFACE

H901292-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**784**		16.0	mg/kg	4	9040914	AC	10-Apr-19	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										**S-04**
Benzene*	**0.508**		0.500	mg/kg	1000	9041001	MS	11-Apr-19	8021B	
Toluene*	**24.0**		1.00	mg/kg	1000	9041001	MS	11-Apr-19	8021B	
Ethylbenzene*	**18.8**		1.00	mg/kg	1000	9041001	MS	11-Apr-19	8021B	
Total Xylenes*	**114**		3.00	mg/kg	1000	9041001	MS	11-Apr-19	8021B	
Total BTEX	**157**		5.50	mg/kg	1000	9041001	MS	11-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*182 %*	*73.3-129*		*9041001*	MS	*11-Apr-19*	*8021B*	
Petroleum Hydrocarbons by GC FID										**S-06**
GRO C6-C10*	**11900**		50.0	mg/kg	5	9041004	MS	10-Apr-19	8015B	
DRO >C10-C28*	**34100**		50.0	mg/kg	5	9041004	MS	10-Apr-19	8015B	
EXT DRO >C28-C36	**5280**		50.0	mg/kg	5	9041004	MS	10-Apr-19	8015B	
Surrogate: 1-Chlorooctane			*1680 %*	*41-142*		*9041004*	MS	*10-Apr-19*	*8015B*	
Surrogate: 1-Chlorooctadecane			*986 %*	*37.6-147*		*9041004*	MS	*10-Apr-19*	*8015B*	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OSB - 19 - 001 Project Number: NONE GIVEN Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 12-Apr-19 14:55

AH - 4 1'

H901292-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**80.0**		16.0	mg/kg	4	9040914	AC	10-Apr-19	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										**S-04**
Benzene*	<0.050		0.050	mg/kg	50	9041001	MS	10-Apr-19	8021B	
Toluene*	**0.108**		0.050	mg/kg	50	9041001	MS	10-Apr-19	8021B	
Ethylbenzene*	**0.274**		0.050	mg/kg	50	9041001	MS	10-Apr-19	8021B	
Total Xylenes*	**1.90**		0.150	mg/kg	50	9041001	MS	10-Apr-19	8021B	
Total BTEX	**2.28**		0.300	mg/kg	50	9041001	MS	10-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*158 %*	*73.3-129*		*9041001*	MS	*10-Apr-19*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	**49.2**		10.0	mg/kg	1	9041004	MS	10-Apr-19	8015B	
DRO >C10-C28*	**418**		10.0	mg/kg	1	9041004	MS	10-Apr-19	8015B	
EXT DRO >C28-C36	**81.7**		10.0	mg/kg	1	9041004	MS	10-Apr-19	8015B	
Surrogate: 1-Chlorooctane			*103 %*	*41-142*		*9041004*	MS	*10-Apr-19*	*8015B*	
Surrogate: 1-Chlorooctadecane			*94.8 %*	*37.6-147*		*9041004*	MS	*10-Apr-19*	*8015B*	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OSB - 19 - 001 Project Number: NONE GIVEN Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 12-Apr-19 14:55

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9040914 - General Prep - Wet Chem										
Blank (9040914-BLK1)				Prepared & Analyzed: 09-Apr-19						
Chloride	ND	16.0	mg/kg							
LCS (9040914-BS1)				Prepared & Analyzed: 09-Apr-19						
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (9040914-BSD1)				Prepared & Analyzed: 09-Apr-19						
Chloride	400	16.0	mg/kg	400		100	80-120	0.00	20	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OSB - 19 - 001 Project Number: NONE GIVEN Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 12-Apr-19 14:55

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9041001 - Volatiles										
Blank (9041001-BLK1)				Prepared & Analyzed: 10-Apr-19						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*0.0987*		mg/kg	*0.100*		*98.7*	*73.3-129*			
LCS (9041001-BS1)				Prepared & Analyzed: 10-Apr-19						
Benzene	1.93	0.050	mg/kg	2.00		96.4	72.2-131			
Toluene	1.97	0.050	mg/kg	2.00		98.4	71.7-126			
Ethylbenzene	1.98	0.050	mg/kg	2.00		99.1	68.9-126			
Total Xylenes	5.86	0.150	mg/kg	6.00		97.6	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	*0.106*		mg/kg	*0.100*		*106*	*73.3-129*			
LCS Dup (9041001-BSD1)				Prepared & Analyzed: 10-Apr-19						
Benzene	2.08	0.050	mg/kg	2.00		104	72.2-131	7.46	6.91	QR-02
Toluene	2.14	0.050	mg/kg	2.00		107	71.7-126	8.17	7.12	QR-02
Ethylbenzene	2.19	0.050	mg/kg	2.00		110	68.9-126	9.97	7.88	QR-02
Total Xylenes	6.48	0.150	mg/kg	6.00		108	71.4-125	10.1	7.46	QR-02
Surrogate: 4-Bromofluorobenzene (PID)	*0.113*		mg/kg	*0.100*		*113*	*73.3-129*			

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OSB - 19 - 001 Project Number: NONE GIVEN Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 12-Apr-19 14:55

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9040912 - General Prep - Organics										
Blank (9040912-BLK1)				Prepared & Analyzed: 09-Apr-19						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*51.3*		mg/kg	*50.0*		*103*	*41-142*			
Surrogate: 1-Chlorooctadecane	*50.0*		mg/kg	*50.0*		*99.9*	*37.6-147*			
LCS (9040912-BS1)				Prepared & Analyzed: 09-Apr-19						
GRO C6-C10	203	10.0	mg/kg	200		101	76.5-133			
DRO >C10-C28	207	10.0	mg/kg	200		104	72.9-138			
Total TPH C6-C28	410	10.0	mg/kg	400		102	78-132			
Surrogate: 1-Chlorooctane	*54.6*		mg/kg	*50.0*		*109*	*41-142*			
Surrogate: 1-Chlorooctadecane	*52.9*		mg/kg	*50.0*		*106*	*37.6-147*			
LCS Dup (9040912-BSD1)				Prepared & Analyzed: 09-Apr-19						
GRO C6-C10	198	10.0	mg/kg	200		99.0	76.5-133	2.39	20.6	
DRO >C10-C28	200	10.0	mg/kg	200		100	72.9-138	3.33	20.6	
Total TPH C6-C28	398	10.0	mg/kg	400		99.6	78-132	2.87	18	
Surrogate: 1-Chlorooctane	*53.3*		mg/kg	*50.0*		*107*	*41-142*			
Surrogate: 1-Chlorooctadecane	*51.7*		mg/kg	*50.0*		*103*	*37.6-147*			
Batch 9041004 - General Prep - Organics										
Blank (9041004-BLK1)				Prepared & Analyzed: 10-Apr-19						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*49.3*		mg/kg	*50.0*		*98.5*	*41-142*			
Surrogate: 1-Chlorooctadecane	*47.6*		mg/kg	*50.0*		*95.1*	*37.6-147*			

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OSB - 19 - 001 Project Number: NONE GIVEN Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 12-Apr-19 14:55

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9041004 - General Prep - Organics										
LCS (9041004-BS1)				Prepared & Analyzed: 10-Apr-19						
GRO C6-C10	209	10.0	mg/kg	200		104	76.5-133			
DRO >C10-C28	194	10.0	mg/kg	200		97.2	72.9-138			
Total TPH C6-C28	403	10.0	mg/kg	400		101	78-132			
Surrogate: 1-Chlorooctane	*55.2*		mg/kg	*50.0*		*110*	*41-142*			
Surrogate: 1-Chlorooctadecane	*49.1*		mg/kg	*50.0*		*98.1*	*37.6-147*			
LCS Dup (9041004-BSD1)				Prepared & Analyzed: 10-Apr-19						
GRO C6-C10	211	10.0	mg/kg	200		105	76.5-133	0.845	20.6	
DRO >C10-C28	202	10.0	mg/kg	200		101	72.9-138	3.96	20.6	
Total TPH C6-C28	413	10.0	mg/kg	400		103	78-132	2.36	18	
Surrogate: 1-Chlorooctane	*55.2*		mg/kg	*50.0*		*110*	*41-142*			
Surrogate: 1-Chlorooctadecane	*52.1*		mg/kg	*50.0*		*104*	*37.6-147*			

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Safety and Environmental Solutions	**BILL TO**	
Project Manager:	Bob Allen	P.O. #:	
Address:	703 East Clinton, PO Box 1613	Company:	Same
City:	Hobbs State: NM Zip: 88240	Attn:	
Phone #:	575 397-0510 Fax #: 575 393-4388	Address:	
Project #:	OSB-19-001 Project Owner:	City:	
Project Name:		State: Zip:	
Project Location:	Lea County	Phone #:	
Sampler Name:	Sosa, Jerry	Fax #:	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH (8015 Ext)	BTEX	CHLORIDES (300)								
H9001292																									
1	AH-2 Surface	G				X					X		04/09		X	X	X								
2	AH-2 1.5 ft	G				X					X		04/09												
3	AH-3 Surface	G				X					X		04/09												
4	AH-3 1ft	G				X					X		04/09												
5	AH-4 Surface	G				X					X		04/09												
6	AH-4 1ft	G				X					X		04/09		X	X	X								

Relinquished By:	Date: 04/09/19	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 0230 Pm	Tamara Oldaker	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		

Delivered By: (Circle One)	Sample Condition	CHECKED BY:
Sampler - UPS - Bus - Other: 4.2° #197	Cool: Yes ☑ No ☐ Intact: Yes ☑ No ☐	(Initials) T.O.

CARDINAL Laboratories

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

July 26, 2019

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: OSB - 19 - 001

Enclosed are the results of analyses for samples received by the laboratory on 07/19/19 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/19/2019	Sampling Date:	07/17/2019
Reported:	07/26/2019	Sampling Type:	Soil
Project Name:	OSB - 19 - 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: B - 1 0-2' , 1' (H902499-01)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2019	ND	1.74	87.0	2.00	2.24	
Toluene*	<0.050	0.050	07/24/2019	ND	1.77	88.6	2.00	2.18	
Ethylbenzene*	**0.056**	0.050	07/24/2019	ND	1.69	84.3	2.00	2.24	
Total Xylenes*	<0.150	0.150	07/24/2019	ND	5.08	84.7	6.00	2.60	
Total BTEX	<0.300	0.300	07/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**576**	16.0	07/22/2019	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	203	102	200	0.529	
DRO >C10-C28*	**1840**	10.0	07/23/2019	ND	193	96.5	200	1.14	
EXT DRO >C28-C36	**460**	10.0	07/23/2019	ND					

Surrogate: 1-Chlorooctane *109 %* *41-142*

Surrogate: 1-Chlorooctadecane *152 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/19/2019	Sampling Date:	07/17/2019
Reported:	07/26/2019	Sampling Type:	Soil
Project Name:	OSB - 19 - 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: B - 1 0-2' , BASE (H902499-02)

BTEX 8021B mg/kg Analyzed By: ms S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2019	ND	1.74	87.0	2.00	2.24	
Toluene*	<0.050	0.050	07/24/2019	ND	1.77	88.6	2.00	2.18	GC-NC
Ethylbenzene*	<0.050	0.050	07/24/2019	ND	1.69	84.3	2.00	2.24	
Total Xylenes*	**1.39**	0.150	07/24/2019	ND	5.08	84.7	6.00	2.60	
Total BTEX	**1.39**	0.300	07/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *194 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**304**	16.0	07/22/2019	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**806**	50.0	07/23/2019	ND	203	102	200	0.529	
DRO >C10-C28*	**6800**	50.0	07/23/2019	ND	193	96.5	200	1.14	
EXT DRO >C28-C36	**647**	50.0	07/23/2019	ND					

Surrogate: 1-Chlorooctane *192 %* *41-142*

Surrogate: 1-Chlorooctadecane *301 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/19/2019	Sampling Date:	07/17/2019
Reported:	07/26/2019	Sampling Type:	Soil
Project Name:	OSB - 19 - 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: B - 1 5-7' (H902499-03)

BTEX 8021B mg/kg Analyzed By: ms S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2019	ND	1.74	87.0	2.00	2.24	
Toluene*	<0.050	0.050	07/24/2019	ND	1.77	88.6	2.00	2.18	
Ethylbenzene*	<0.050	0.050	07/24/2019	ND	1.69	84.3	2.00	2.24	
Total Xylenes*	**0.585**	0.150	07/24/2019	ND	5.08	84.7	6.00	2.60	
Total BTEX	**0.585**	0.300	07/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *140 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	07/22/2019	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**84.7**	10.0	07/23/2019	ND	203	102	200	0.529	
DRO >C10-C28*	**1210**	10.0	07/23/2019	ND	193	96.5	200	1.14	
EXT DRO >C28-C36	**146**	10.0	07/23/2019	ND					

Surrogate: 1-Chlorooctane *123 %* *41-142*

Surrogate: 1-Chlorooctadecane *144 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/19/2019	Sampling Date:	07/17/2019
Reported:	07/26/2019	Sampling Type:	Soil
Project Name:	OSB - 19 - 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: B - 1 10-12' (H902499-04)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2019	ND	1.74	87.0	2.00	2.24	
Toluene*	<0.050	0.050	07/24/2019	ND	1.77	88.6	2.00	2.18	
Ethylbenzene*	<0.050	0.050	07/24/2019	ND	1.69	84.3	2.00	2.24	
Total Xylenes*	<0.150	0.150	07/24/2019	ND	5.08	84.7	6.00	2.60	
Total BTEX	<0.300	0.300	07/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/22/2019	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	203	102	200	0.529	
DRO >C10-C28*	<10.0	10.0	07/23/2019	ND	193	96.5	200	1.14	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					

Surrogate: 1-Chlorooctane *104 %* *41-142*

Surrogate: 1-Chlorooctadecane *108 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/19/2019	Sampling Date:	07/17/2019
Reported:	07/26/2019	Sampling Type:	Soil
Project Name:	OSB - 19 - 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: B - 1 15-17' (H902499-05)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2019	ND	1.74	87.0	2.00	2.24	
Toluene*	<0.050	0.050	07/24/2019	ND	1.77	88.6	2.00	2.18	
Ethylbenzene*	<0.050	0.050	07/24/2019	ND	1.69	84.3	2.00	2.24	
Total Xylenes*	<0.150	0.150	07/24/2019	ND	5.08	84.7	6.00	2.60	
Total BTEX	<0.300	0.300	07/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/22/2019	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	203	102	200	0.529	
DRO >C10-C28*	**12.2**	10.0	07/23/2019	ND	193	96.5	200	1.14	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					

Surrogate: 1-Chlorooctane *108 %* *41-142*

Surrogate: 1-Chlorooctadecane *113 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/19/2019	Sampling Date:	07/17/2019
Reported:	07/26/2019	Sampling Type:	Soil
Project Name:	OSB - 19 - 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: B - 1 30-32' (H902499-06)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	2.00	100	2.00	1.33	
Toluene*	<0.050	0.050	07/25/2019	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.94	96.8	2.00	1.58	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	6.18	103	6.00	2.04	
Total BTEX	<0.300	0.300	07/25/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	07/22/2019	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	203	102	200	0.529	
DRO >C10-C28*	<10.0	10.0	07/23/2019	ND	193	96.5	200	1.14	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					

Surrogate: 1-Chlorooctane *104 %* *41-142*

Surrogate: 1-Chlorooctadecane *109 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/19/2019	Sampling Date:	07/17/2019
Reported:	07/26/2019	Sampling Type:	Soil
Project Name:	OSB - 19 - 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: B - 2 2' (H902499-07)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**0.349**	0.050	07/25/2019	ND	2.00	100	2.00	1.33	
Toluene*	**3.31**	0.050	07/25/2019	ND	2.06	103	2.00	1.17	
Ethylbenzene*	**3.41**	0.050	07/25/2019	ND	1.94	96.8	2.00	1.58	
Total Xylenes*	**4.07**	0.150	07/25/2019	ND	6.18	103	6.00	2.04	
Total BTEX	**11.1**	0.300	07/25/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *87.3 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	07/22/2019	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**496**	10.0	07/24/2019	ND	203	102	200	0.529	
DRO >C10-C28*	**1050**	10.0	07/24/2019	ND	193	96.5	200	1.14	
EXT DRO >C28-C36	**98.3**	10.0	07/24/2019	ND					

Surrogate: 1-Chlorooctane *149 %* *41-142*

Surrogate: 1-Chlorooctadecane *136 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/19/2019	Sampling Date:	07/17/2019
Reported:	07/26/2019	Sampling Type:	Soil
Project Name:	OSB - 19 - 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: B - 2 5-7' (H902499-08)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	2.00	100	2.00	1.33	
Toluene*	<0.050	0.050	07/25/2019	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.94	96.8	2.00	1.58	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	6.18	103	6.00	2.04	
Total BTEX	<0.300	0.300	07/25/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/22/2019	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2019	ND	203	102	200	0.529	
DRO >C10-C28*	**69.7**	10.0	07/24/2019	ND	193	96.5	200	1.14	
EXT DRO >C28-C36	<10.0	10.0	07/24/2019	ND					

Surrogate: 1-Chlorooctane *108 %* *41-142*

Surrogate: 1-Chlorooctadecane *117 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Fax To: (575) 393-4388

Received:	07/19/2019	Sampling Date:	07/17/2019
Reported:	07/26/2019	Sampling Type:	Soil
Project Name:	OSB - 19 - 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: B - 2 10-12' (H902499-09)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	2.00	100	2.00	1.33	
Toluene*	<0.050	0.050	07/25/2019	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.94	96.8	2.00	1.58	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	6.18	103	6.00	2.04	
Total BTEX	<0.300	0.300	07/25/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	07/22/2019	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2019	ND	203	102	200	0.529	
DRO >C10-C28*	**2570**	10.0	07/24/2019	ND	193	96.5	200	1.14	
EXT DRO >C28-C36	**497**	10.0	07/24/2019	ND					

Surrogate: 1-Chlorooctane *115 %* *41-142*

Surrogate: 1-Chlorooctadecane *167 %* *37.6-147*

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Received:	07/19/2019	Sampling Date:	07/17/2019
Reported:	07/26/2019	Sampling Type:	Soil
Project Name:	OSB - 19 - 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: B - 2 15-17' (H902499-10)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	2.00	100	2.00	1.33	
Toluene*	<0.050	0.050	07/25/2019	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.94	96.8	2.00	1.58	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	6.18	103	6.00	2.04	
Total BTEX	<0.300	0.300	07/25/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *107 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**176**	16.0	07/22/2019	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2019	ND	203	102	200	0.529	
DRO >C10-C28*	**13.7**	10.0	07/24/2019	ND	193	96.5	200	1.14	
EXT DRO >C28-C36	<10.0	10.0	07/24/2019	ND					

Surrogate: 1-Chlorooctane *101 %* *41-142*

Surrogate: 1-Chlorooctadecane *106 %* *37.6-147*

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Received:	07/19/2019	Sampling Date:	07/17/2019
Reported:	07/26/2019	Sampling Type:	Soil
Project Name:	OSB - 19 - 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: B - 2 20-22' (H902499-11)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	2.00	100	2.00	1.33	
Toluene*	<0.050	0.050	07/25/2019	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.94	96.8	2.00	1.58	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	6.18	103	6.00	2.04	
Total BTEX	<0.300	0.300	07/25/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	07/22/2019	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2019	ND	203	102	200	0.529	
DRO >C10-C28*	<10.0	10.0	07/24/2019	ND	193	96.5	200	1.14	
EXT DRO >C28-C36	<10.0	10.0	07/24/2019	ND					

Surrogate: 1-Chlorooctane *102 %* *41-142*

Surrogate: 1-Chlorooctadecane *107 %* *37.6-147*

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Received:	07/19/2019	Sampling Date:	07/17/2019
Reported:	07/26/2019	Sampling Type:	Soil
Project Name:	OSB - 19 - 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: B - 2 25-27' (H902499-12)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	2.00	100	2.00	1.33	
Toluene*	<0.050	0.050	07/25/2019	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.94	96.8	2.00	1.58	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	6.18	103	6.00	2.04	
Total BTEX	<0.300	0.300	07/25/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	07/22/2019	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2019	ND	203	102	200	0.529	
DRO >C10-C28*	<10.0	10.0	07/24/2019	ND	193	96.5	200	1.14	
EXT DRO >C28-C36	<10.0	10.0	07/24/2019	ND					

Surrogate: 1-Chlorooctane *113 %* *41-142*

Surrogate: 1-Chlorooctadecane *117 %* *37.6-147*

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Received:	07/19/2019	Sampling Date:	07/17/2019
Reported:	07/26/2019	Sampling Type:	Soil
Project Name:	OSB - 19 - 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: B - 2 30-32' (H902499-13)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	2.00	100	2.00	1.33	
Toluene*	<0.050	0.050	07/25/2019	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.94	96.8	2.00	1.58	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	6.18	103	6.00	2.04	
Total BTEX	<0.300	0.300	07/25/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/22/2019	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	190	95.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	07/23/2019	ND	182	91.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					

Surrogate: 1-Chlorooctane *141 %* *41-142*

Surrogate: 1-Chlorooctadecane *141 %* *37.6-147*

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Received:	07/19/2019	Sampling Date:	07/17/2019
Reported:	07/26/2019	Sampling Type:	Soil
Project Name:	OSB - 19 - 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: B - 3 0-2' (H902499-14)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	2.00	100	2.00	1.33	
Toluene*	<0.050	0.050	07/25/2019	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.94	96.8	2.00	1.58	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	6.18	103	6.00	2.04	
Total BTEX	<0.300	0.300	07/25/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**912**	16.0	07/22/2019	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	190	95.2	200	1.01	
DRO >C10-C28*	**146**	10.0	07/23/2019	ND	182	91.2	200	2.94	
EXT DRO >C28-C36	**18.7**	10.0	07/23/2019	ND					

Surrogate: 1-Chlorooctane *99.9 %* *41-142*

Surrogate: 1-Chlorooctadecane *108 %* *37.6-147*

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Received:	07/19/2019	Sampling Date:	07/17/2019
Reported:	07/26/2019	Sampling Type:	Soil
Project Name:	OSB - 19 - 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: B - 3 2-4' (H902499-15)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	2.00	100	2.00	1.33	
Toluene*	<0.050	0.050	07/25/2019	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.94	96.8	2.00	1.58	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	6.18	103	6.00	2.04	
Total BTEX	<0.300	0.300	07/25/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**288**	16.0	07/22/2019	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	190	95.2	200	1.01	
DRO >C10-C28*	**15.2**	10.0	07/23/2019	ND	182	91.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					

Surrogate: 1-Chlorooctane *107 %* *41-142*

Surrogate: 1-Chlorooctadecane *107 %* *37.6-147*

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Received:	07/19/2019	Sampling Date:	07/17/2019
Reported:	07/26/2019	Sampling Type:	Soil
Project Name:	OSB - 19 - 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: B - 3 5-7' (H902499-16)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	2.00	100	2.00	1.33	
Toluene*	<0.050	0.050	07/25/2019	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.94	96.8	2.00	1.58	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	6.18	103	6.00	2.04	
Total BTEX	<0.300	0.300	07/25/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	07/22/2019	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	190	95.2	200	1.01	
DRO >C10-C28*	**19.7**	10.0	07/23/2019	ND	182	91.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					

Surrogate: 1-Chlorooctane *104 %* *41-142*

Surrogate: 1-Chlorooctadecane *103 %* *37.6-147*

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Received:	07/19/2019	Sampling Date:	07/17/2019
Reported:	07/26/2019	Sampling Type:	Soil
Project Name:	OSB - 19 - 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: B - 3 10-12' (H902499-17)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	2.00	100	2.00	1.33	
Toluene*	<0.050	0.050	07/25/2019	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.94	96.8	2.00	1.58	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	6.18	103	6.00	2.04	
Total BTEX	<0.300	0.300	07/25/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/22/2019	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	190	95.2	200	1.01	
DRO >C10-C28*	**20.5**	10.0	07/23/2019	ND	182	91.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					

Surrogate: 1-Chlorooctane *98.0 %* *41-142*

Surrogate: 1-Chlorooctadecane *96.1 %* *37.6-147*

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Received:	07/19/2019	Sampling Date:	07/17/2019
Reported:	07/26/2019	Sampling Type:	Soil
Project Name:	OSB - 19 - 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: B - 3 15-17' (H902499-18)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	2.00	100	2.00	1.33	
Toluene*	<0.050	0.050	07/25/2019	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.94	96.8	2.00	1.58	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	6.18	103	6.00	2.04	
Total BTEX	<0.300	0.300	07/25/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	07/22/2019	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	185	92.3	200	4.28	
DRO >C10-C28*	**14.2**	10.0	07/23/2019	ND	178	89.0	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					

Surrogate: 1-Chlorooctane *80.4 %* *41-142*

Surrogate: 1-Chlorooctadecane *83.6 %* *37.6-147*

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Received:	07/19/2019	Sampling Date:	07/17/2019
Reported:	07/26/2019	Sampling Type:	Soil
Project Name:	OSB - 19 - 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: B - 3 25-27' (H902499-19)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	1.70	84.8	2.00	2.64	
Toluene*	<0.050	0.050	07/25/2019	ND	1.68	84.1	2.00	4.45	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.56	78.2	2.00	6.27	
Total Xylenes*	**0.206**	0.150	07/25/2019	ND	5.02	83.6	6.00	6.25	
Total BTEX	<0.300	0.300	07/25/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	07/22/2019	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	185	92.3	200	4.28	
DRO >C10-C28*	<10.0	10.0	07/23/2019	ND	178	89.0	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					

Surrogate: 1-Chlorooctane *71.3 %* *41-142*

Surrogate: 1-Chlorooctadecane *75.4 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/19/2019	Sampling Date:	07/17/2019
Reported:	07/26/2019	Sampling Type:	Soil
Project Name:	OSB - 19 - 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: B - 3 30-32' (H902499-20)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	1.70	84.8	2.00	2.64	
Toluene*	<0.050	0.050	07/25/2019	ND	1.68	84.1	2.00	4.45	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.56	78.2	2.00	6.27	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	5.02	83.6	6.00	6.25	
Total BTEX	<0.300	0.300	07/25/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.3 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	07/22/2019	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	185	92.3	200	4.28	
DRO >C10-C28*	<10.0	10.0	07/23/2019	ND	178	89.0	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					

Surrogate: 1-Chlorooctane *72.7 %* *41-142*

Surrogate: 1-Chlorooctadecane *76.3 %* *37.6-147*

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Analytical Results For:

Safety & Environmental Solutions
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Fax To: (575) 393-4388

Received:	07/19/2019	Sampling Date:	07/17/2019
Reported:	07/26/2019	Sampling Type:	Soil
Project Name:	OSB - 19 - 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: B - 4, 0-2' (H902499-21)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	1.70	84.8	2.00	2.64	
Toluene*	<0.050	0.050	07/25/2019	ND	1.68	84.1	2.00	4.45	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.56	78.2	2.00	6.27	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	5.02	83.6	6.00	6.25	
Total BTEX	<0.300	0.300	07/25/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	07/22/2019	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	185	92.3	200	4.28	
DRO >C10-C28*	**511**	10.0	07/23/2019	ND	178	89.0	200	4.70	
EXT DRO >C28-C36	**178**	10.0	07/23/2019	ND					

Surrogate: 1-Chlorooctane *64.2 %* *41-142*

Surrogate: 1-Chlorooctadecane *75.6 %* *37.6-147*

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Received:	07/19/2019	Sampling Date:	07/17/2019
Reported:	07/26/2019	Sampling Type:	Soil
Project Name:	OSB - 19 - 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: B - 4, 2-4' (H902499-22)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	1.70	84.8	2.00	2.64	
Toluene*	<0.050	0.050	07/25/2019	ND	1.68	84.1	2.00	4.45	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.56	78.2	2.00	6.27	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	5.02	83.6	6.00	6.25	
Total BTEX	<0.300	0.300	07/25/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	07/22/2019	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	185	92.3	200	4.28	
DRO >C10-C28*	**10.4**	10.0	07/23/2019	ND	178	89.0	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					

Surrogate: 1-Chlorooctane *61.7 %* *41-142*

Surrogate: 1-Chlorooctadecane *64.1 %* *37.6-147*

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Received:	07/19/2019	Sampling Date:	07/17/2019
Reported:	07/26/2019	Sampling Type:	Soil
Project Name:	OSB - 19 - 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: B - 4, 4-6' (H902499-23)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	1.70	84.8	2.00	2.64	
Toluene*	<0.050	0.050	07/25/2019	ND	1.68	84.1	2.00	4.45	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.56	78.2	2.00	6.27	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	5.02	83.6	6.00	6.25	
Total BTEX	<0.300	0.300	07/25/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	07/22/2019	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	185	92.3	200	4.28	
DRO >C10-C28*	**725**	10.0	07/23/2019	ND	178	89.0	200	4.70	
EXT DRO >C28-C36	**197**	10.0	07/23/2019	ND					

Surrogate: 1-Chlorooctane *69.1 %* *41-142*

Surrogate: 1-Chlorooctadecane *83.5 %* *37.6-147*

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Analytical Results For:

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Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/19/2019	Sampling Date:	07/17/2019
Reported:	07/26/2019	Sampling Type:	Soil
Project Name:	OSB - 19 - 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: B - 4, 10-12' (H902499-24)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	1.70	84.8	2.00	2.64	
Toluene*	<0.050	0.050	07/25/2019	ND	1.68	84.1	2.00	4.45	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.56	78.2	2.00	6.27	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	5.02	83.6	6.00	6.25	
Total BTEX	<0.300	0.300	07/25/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	07/22/2019	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	185	92.3	200	4.28	
DRO >C10-C28*	**142**	10.0	07/23/2019	ND	178	89.0	200	4.70	
EXT DRO >C28-C36	**38.2**	10.0	07/23/2019	ND					

Surrogate: 1-Chlorooctane *64.1 %* *41-142*

Surrogate: 1-Chlorooctadecane *69.8 %* *37.6-147*

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Received:	07/19/2019	Sampling Date:	07/17/2019
Reported:	07/26/2019	Sampling Type:	Soil
Project Name:	OSB - 19 - 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: B - 4, 15-17' (H902499-25)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	1.70	84.8	2.00	2.64	
Toluene*	<0.050	0.050	07/25/2019	ND	1.68	84.1	2.00	4.45	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.56	78.2	2.00	6.27	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	5.02	83.6	6.00	6.25	
Total BTEX	<0.300	0.300	07/25/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.9 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	07/22/2019	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	185	92.3	200	4.28	
DRO >C10-C28*	<10.0	10.0	07/23/2019	ND	178	89.0	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					

Surrogate: 1-Chlorooctane *65.8 %* *41-142*

Surrogate: 1-Chlorooctadecane *68.8 %* *37.6-147*

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Analytical Results For:

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Fax To: (575) 393-4388

Received:	07/19/2019	Sampling Date:	07/17/2019
Reported:	07/26/2019	Sampling Type:	Soil
Project Name:	OSB - 19 - 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: B - 4, 20-22' (H902499-26)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	1.70	84.8	2.00	2.64	
Toluene*	<0.050	0.050	07/25/2019	ND	1.68	84.1	2.00	4.45	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.56	78.2	2.00	6.27	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	5.02	83.6	6.00	6.25	
Total BTEX	<0.300	0.300	07/25/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.6 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	07/22/2019	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	185	92.3	200	4.28	
DRO >C10-C28*	<10.0	10.0	07/23/2019	ND	178	89.0	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					

Surrogate: 1-Chlorooctane *65.9 %* *41-142*

Surrogate: 1-Chlorooctadecane *69.3 %* *37.6-147*

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Analytical Results For:

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Fax To: (575) 393-4388

Received:	07/19/2019	Sampling Date:	07/17/2019
Reported:	07/26/2019	Sampling Type:	Soil
Project Name:	OSB - 19 - 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: B - 4, 25-27' (H902499-27)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	1.70	84.8	2.00	2.64	
Toluene*	<0.050	0.050	07/25/2019	ND	1.68	84.1	2.00	4.45	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.56	78.2	2.00	6.27	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	5.02	83.6	6.00	6.25	
Total BTEX	<0.300	0.300	07/25/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	07/22/2019	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	185	92.3	200	4.28	
DRO >C10-C28*	<10.0	10.0	07/23/2019	ND	178	89.0	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					

Surrogate: 1-Chlorooctane *66.5 %* *41-142*

Surrogate: 1-Chlorooctadecane *68.8 %* *37.6-147*

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Analytical Results For:

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Fax To: (575) 393-4388

Received:	07/19/2019	Sampling Date:	07/17/2019
Reported:	07/26/2019	Sampling Type:	Soil
Project Name:	OSB - 19 - 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: B - 4, 30-32' (H902499-28)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	1.70	84.8	2.00	2.64	
Toluene*	<0.050	0.050	07/25/2019	ND	1.68	84.1	2.00	4.45	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.56	78.2	2.00	6.27	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	5.02	83.6	6.00	6.25	
Total BTEX	<0.300	0.300	07/25/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	07/22/2019	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	185	92.3	200	4.28	
DRO >C10-C28*	<10.0	10.0	07/23/2019	ND	178	89.0	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					

Surrogate: 1-Chlorooctane *66.3 %* *41-142*

Surrogate: 1-Chlorooctadecane *69.1 %* *37.6-147*

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 3

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

Company Name:	Safety and Environmental Solutions	BILL TO	
Project Manager:	Bob Allen	P.O. #:	
Address:	703 East Clinton, PO Box 1613	Company:	Same
City:	Hobbs State: NM Zip: 88240	Attn:	
Phone #:	575 397-0510 Fax #: 575 393-4388	Address:	
Project #:	05B-19-0001 Project Owner:	City:	
Project Name:		State: Zip:	
Project Location:	LEDINGTON	Phone #:	
Sampler Name:	DAVID BOYER	Fax #:	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	ANALYSIS REQUEST: TPH (8015 EXT)	BTEX	Chlorides
H902499													2019				
1	B-1 0-2', 1 FT	G	1			X					X		7/17	1047	X	X	X
2	B-1 0-2', BGTC		1			1					1		1	1047	1	1	1
3	" 5-7'		1			1					1		1	1054	1	1	1
4	" 10-12'		1			1					1		1	1057	1	1	1
5	" 15-17'		1			1					1		1	1104	1	1	1
6	B-1 30-32'		1			1					1		1	1132	1	1	1
7	B-2 2'		1			1					1		1	1315	1	1	1
8	" 5-7'		1			1					1		1	1322	1	1	1
9	" 10-12'		1			1					1		1	1328	1	1	1
10	B-2 15-17'	G	1			X					X		7/17	1333	X	X	X

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

Relinquished By: D R Boyer	Date: 7/19/19 Time: 16:40	Received By: Tamara Oldaker	Phone Result: ☐ Yes ☒ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: ☐ Yes ☒ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	3.6°C #197 Corrected 4.0°C	Sample Condition Cool: ☒ Yes ☐ No Intact: ☐ Yes ☐ No	CHECKED BY: (Initials) T.O.

REMARKS:

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 2 of 3

Company Name:	Safety and Environmental Solutions
Project Manager:	Bob Allen
Address:	703 East Clinton, PO Box 1613
City:	Hobbs State: NM Zip: 88240
Phone #:	575 397-0510 Fax #: 575 393-4388
Project #:	05B-19-001 Project Owner:
Project Name:	
Project Location:	Lovington
Sampler Name:	David Boyer

BILL TO

P.O. #:	
Company:	Same
Attn:	
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING DATE (2019)	TIME	TPH (8015 Ext)	BTEX	Chlorides
H902499																	
11	BH-2	20-22'	G	1			X					X		7/17	1335	X	X	X
12	BH-2	25-27'													1244			
13	BH-2	30-32'													1345			
14	BH-3	0-2'													1417			
15		2-4													1422			
16		5-7													1430			
17		10-12													1438			
18		15-17													1446			
19		25-27													1500			
20	BH-3	30-32	G	1			X					X		7/17	1506	X	X	X

Relinquished By: D. Boyer	Date: 7/19/19 Time: 16:40	Received By: Tamara Oldaker	
Relinquished By:	Date: Time:	Received By:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	3.6° #97 Corrected 4.0°	Sample Condition Cool: Yes / No Intact: Yes / No	CHECKED BY: (Initials) TO.

Phone Result: ☐ Yes ☒ No Add'l Phone #:
Fax Result: ☐ Yes ☒ No Add'l Fax #:
REMARKS:

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 3 of 3

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

Company Name:	Safety and Environmental Solutions	BILL TO	
Project Manager:	Bob Allen	P.O. #:	
Address:	703 East Clinton, PO Box 1613	Company:	Same
City:	Hobbs	State: NM Zip: 88240	Attn:
Phone #:	575 397-0510	Fax #: 575 393-4388	Address:
Project #:	05R-19-001	Project Owner:	City:
Project Name:			State: Zip:
Project Location:	Lovington		Phone #:
Sampler Name:	David Royer		Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING DATE	SAMPLING TIME	ANALYSIS REQUEST: TPH (8015 Ext)	BTEX	Chloride
H902499													7/19				
21	B-4, 0-2'	G	1			X					X		7/17	1600	X	X	X
22	2-4'													1605			
23	4-6'													1613			
24	10-12'													1620			
25	15-17													1625			
26	20-22													1630			
27	25-27													1636			
28	B-4, 30-32	G	1			X					X		7/17	1641	X	X	X

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Relinquished By:	Date: 7/19/19	Received By:	Tamara Oldaker
Relinquished By:	Time: 16:40	Received By:	
Delivered By: (Circle One)	3.6° #97	Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No	CHECKED BY: (Initials) TO
Sampler - UPS - Bus - Other:	Corrected 4.0°		

Phone Result: ☐ Yes ☒ No Add'l Phone #:
Fax Result: ☐ Yes ☒ No Add'l Fax #:
REMARKS:

KANE
ENVIRONMENTAL ENGINEERING, INC.

October 22, 2008 **VIA Email**

Wayne Price
Oil Conservation Division
1220 South St. Francis Drive
Sante Fe, NM 87505

RE: Summary of June 2008 Soil Sampling and Recommended Remediation Activities at the Mattie Price Tank Battery, (Unit A, Section 6, Township 17 South, Range 38 East), Lea County New Mexico

Dear Mr. Price:

This letter summarizes the June 2008 soil sampling activities and changes in the remediation program at the Mattie Price tank battery. The facility is owned and operated by Osborn Heirs Company (Osborn). The site is located in Section 6, Township 17S Range 38E, Lea County, New Mexico, at a global position of North 32° 52' 3.9'', West 103° 10' 47.4''.

Site activities began December 2004. Important milestones completed during the project include:

June 2005: The subsurface affected materials were delineated to below the threshold values.
January 2006: Three monitoring wells that were installed in January 2006. Samples from the these wells verified that no groundwater impacts were present. The remediation threshold values of 10,000 mg/kg total petroleum hydrobons (TPH), 10 mg/kg benzene and 50 mg/kg total benzene, toluene, ethylbenzene and xylenes (BTEX) were also finalized.
January 2006: 332 cubic yards of affected materials were excavated and properly disposed of at an off-site location.
January 2006: Eleven remediation wells were installed to access the affected zone between 10 and 25 feet. Sparge remediation was initiated using a household compressor at a pressure of 15 psi and an unknown flow rate.
June 2007: The number of active air-injection wells was decreased to six upon verification that the hydrocarbon concentrations in the other areas were below the threshold values.
June 2008: The subsurface material sampling activities described in this letter were completed.

Previous sampling had established that the location did not have benzene or the BTEX (benzene, toluene, ethylbenzene and toluene) constituents above the threshold values. Two confirmatory subsurface samples were collected from the 12.5-to-15 and 17.5-to-20-foot intervals at the

location shown on Figure 1. The location, and the two intervals from it, were selected because it had historically contained hydrocarbons above the threshold values.

The boring was advanced to a total depth of 20 feet using hollow-stem auger. The materials encountered were generally hard caliche. Drilling became very difficult below 10 feet. The materials in the affected zone did not exhibit substantial hydrocarbon effects based upon visual and olfactory evidence.

The two samples were analyzed for total petroleum hydrocarbons in the gasoline, diesel and oil ranges using method TX 1005. The results are summarized in Table 1 along with the historical samples from the same location. The results indicate that the residual TPH remains above the threshold values and, in fact, the concentrations have not declined since the system was installed.

Kane will convert the system from a low-pressure, low-volume pressure to a mid-vacuum, high-volume soil vapor extraction (SVE) system. This conversion will be accomplished by by replacing the household compressor with a commercial blower that is capable of a much higher flow volume at a vacuum of 30 to 60 inches of water. This system will come on-line within the next 30 days.

The system will be run until March 2009 when the additional samples will be collected from the same intervals at the same approximate location and analyzed for TPH using the TX 1005 methodology. The site will be closed if the residual concentrations are below the 1,000 mg/kg NMOCD standard.

Do not hesitate to contact me at (303) 638-0001, or at stewartmike@yahoo.com if you have any questions or comments. Please forward all written correspondence for this site investigation plan to me at the following address:

Michael Stewart
264 Blue Spruce Drive
Evergreen, Colorado 80439
303.638-0001
stewartmike@yahoo.com

Sincerely,

Michael H. Stewart

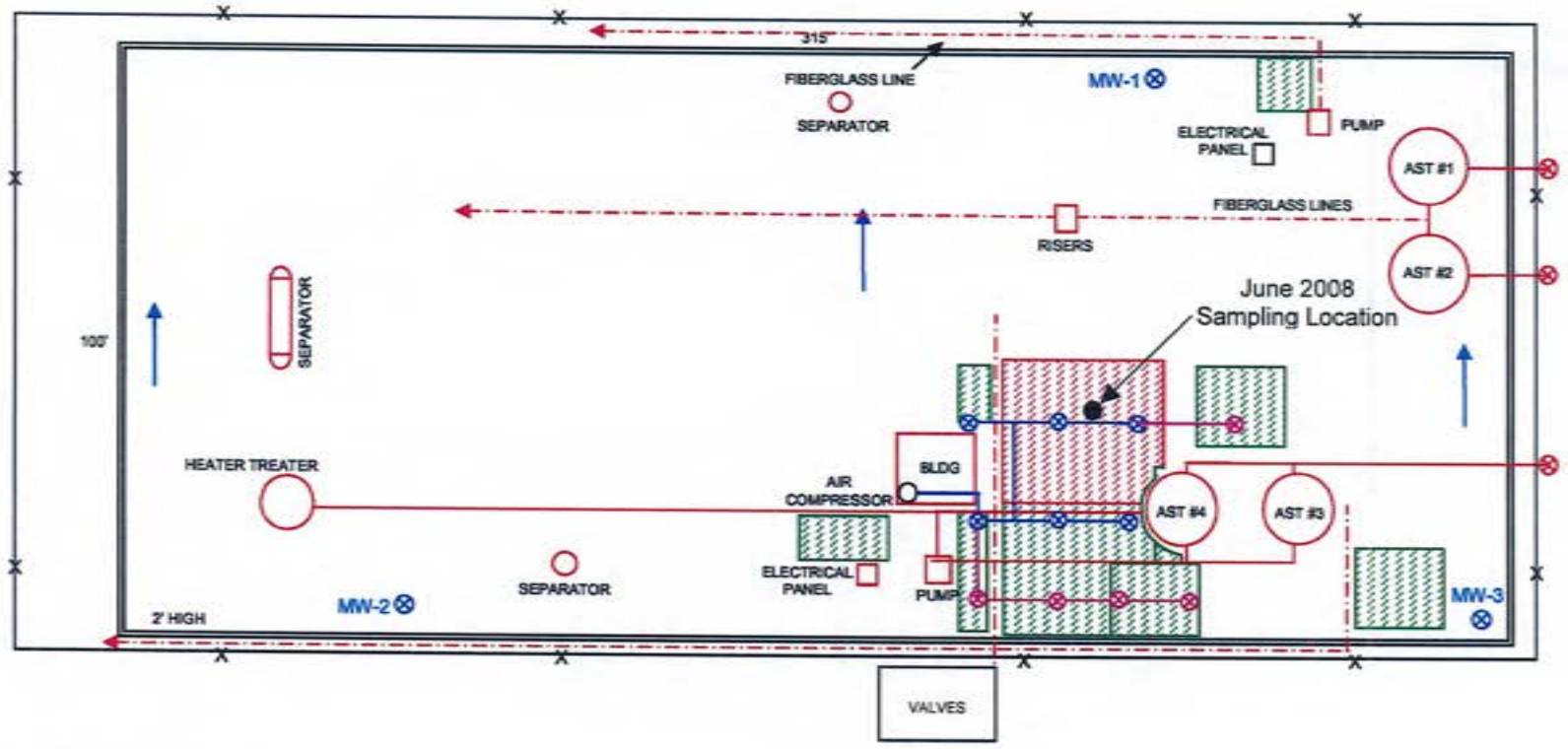
Michael H. Stewart, PE, CPG

CC: Larry Johnson, NMOCD, Hobbs New Mexico
Joyce Swayze, Osborn Heirs Company

TABLE 1
MATTIE PRICE TANK BATTERY
MPB-10 SAMPLE RESULTS FROM THE 12.5-15 AND 17.5-20 FOOT INTERVALS

	Date	TPH GRO C6-C12	TPH-DRO C12-C28	TPH-ORO C28-C35	TPH C6-C35
Threshold Standards		1,000			1,000
Sample ID					
MPB-10 12.5-15	11/06	**1550**	3310	92.4	**4950**
MPB-10 12.5-15.0	6/08	**1920**	3150	350	**5420**
MPB-10 17.5-20.0	12/04	**771**			**2250**
MPB-10 17.5-20	11/06	**534**	1250	36.7	**1820**
MPB-10 17.5-20.0	6/08	**1030**	2230	245	**3510**

Bold values exceed the applicable threshold standard.
Previous sampling established the these materials were below the benzene and BTEX threshold standards.



BERM DIMENSIONS REFLECT TOP OF BERM

TANK LEGEND

- SURFACE DRAINAGE
- FENCE
- EARTHEN BERM
- REMEDIATION COMPLETED
- REMEDIATION INCOMPLETE
- AIR SPARGE WELL/PIPING
- AIR SPARGE BORING/PIPING TO BE DISCONNECTED
- SURFACE PIPING

NOTES

1. Air compressor to be replaced with a commercial blower.
2. Blower will be attached to the six existing wells using the existing header.
3. System settings and cycling will be set based upon site specific conditions encountered
4. System will run until March 2009.

N NE E SE S SW W NW

KANE
Environmental Engineering Inc.
Spring, Texas

Figure 1
June 2008 Sampling Location, and Air Sparge System Modifications
Mattie Price Tank Battery
Lea County, New Mexico

DRAWN BY:	SMJ w/MHS revisions	PROJECT: 04-631
DATE:	10/08	
REVISED:		NOT TO SCALE

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W Grand Avenue, 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

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

RECEIVED
JAN 08 2009
HOBBSOCD

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☑ Initial Report ☐ Final Report

Name of Company **OSBORN HEIRS COMPANY #016616**	Contact **Joy Swayze, Environmental Manager**
Address **P.O. Box 17968, San Antonio, TX 78217**	Telephone No. **210-826-0700, Ext. 214**
Facility Name **Mattie Price Tank Battery**	Facility Type **Oil Tank Battery**

Surface Owner Phillip and/or Dan Berry	Mineral Owner Juanell Fort, Stanley BPL, et al	Lease No. 008577

API# 30-025-23439-00-00 (MATTIE PRICE 004)

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	06	17S	38E					LEA

Latitude N 32° 52' 3.4" Longitude W 103° 10' 45.8"

NATURE OF RELEASE

Type of Release **Oil**	Volume of Release **302 bbls**	Volume Recovered **None**
Source of Release **Cone-bottomed Production Tank**	Date and Hour of Occurrence **Early morning Dec. 25, 2008**	Date and Hour of Discovery **Dec. 25 , 2008 - approx. 4:30 P.M**
Was Immediate Notice Given? ☑ Yes ☐ No ☐ Not Required (Notice given within 24-hours)	If YES, To Whom? **Buddy Hill at NMOCD, Hobbs, New Mexico**	
By Whom? **Roger Graves – OHC Pumper**	Date and Hour **Dec. 26, 2008, approx. 10:00 A.M.**	
Was a Watercourse Reached? ☐ Yes ☑ No	If YES, Volume Impacting the Watercourse. **N/A** WATER @ 75'	

If a Watercourse was Impacted, Describe Fully.* **N/A**

Describe Cause of Problem and Remedial Action Taken.* **The cone-shaped bottom of oil production tank ruptured without prior warning. OHC Pumper, Roger Graves, was at the facility on December 24, 2008, and there was no indication of a problem with the tank. Upon discovery of the release, production was switched to another tank and a vacuum truck was mobilized. When the tank bottom gave way, oil, paraffin and sludge spread out over the facility location. Oil was absorbed into the soil - paraffin and sludge formed a crust at the surface. Approximately 5 bbls of oily substance was picked up by the vacuum truck and hauled to a certified disposal center. No oil or other material spread outside the facility firewall. Roger Graves reported the release to Buddy Hill at NMOCD on 12-26-08. Joy Swayze at San Antonio Office contacted Mr. Hill on Monday, 12-29-08 and was advised to contact Geoffrey Leking. After telephone contact with Mr. Leking, Steve DeMarco, Gary Cunningham (S.A.Office), Roger Graves (OHC Pumper) and Mr. Lekin (NMOCD ENV.) met at the Mattie Price facility on January 5, 2009.**

Describe Area Affected and Cleanup Action Taken.*
The affected area is approximately 100 feet long and 25 feet wide. The depth of the oil contaminated soil is generally 2 inches, but up to 4 inches close to the ruptured tank. At the surface there are some oily areas and some areas where a thick crust has formed from the combination of oil, paraffin and sludge.
CONT'D. PAGE-2

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: Joy Swayze	OIL CONSERVATION DIVISION
Printed Name: Joy Swayze	Approved by District Supervisor: Geoffrey Leking
Title: Environmental Manager	Approval Date: 01/12/09 Expiration Date: 03/13/09
E-mail Address: joys@osbornheirs.com	Conditions of Approval: CHLORIDES MUST BE DELINEATED AND REMEDIATED TO CLEAN +1. VERIFICATION/DISPLAY THAT FLUID DID NOT MIGRATE DOWNWARD VIA AIR SPARGING LOCATIONS MUST BE PERFORMED. FINAL C-141 SHOULD BE SUBMITTED BY 03/13/09
Date: 01-06-09 Phone: 210-826-0700 Ext. 214	Attached ☐ IRP-2047

fGRL0901241173

NMOCD -- RELEASE NOTIFICATION AND CORRECTIVE ACTION
Page 2
Mattie Price Tank Battery
Lea County, New Mexico
Date of Release: 12.25.08

Describe Area Affected and Cleanup Action Taken

No clean up action has been taken as of Jan. 4, 2009. After meeting with Mr. Leking, the following action is proposed:

1) A contract lease crew will be on location Thursday, January 8, 2009, to begin removing the crusty surface formed by the oil, paraffin and sludge. As this crusty soil is removed, it will be temporarily placed on heavy-duty plastic pads – then hauled to a certified landfill.

2) Pending approval by the NMOCD, OHC proposes to remediate the remaining affected soil using Micro-Blaze Liquid Spill Control, a bioremediation and spill control product that "breaks down, degrades and digests the waste". Personnel from Micro-Blaze will supervise application of the product, monitor the progress, collect samples and have the samples analyzed to determine when the remediation is completed in accordance with NMOCD standards.

Joy Swayze, Environmental Manager
Date: January 6, 2009

Micro-Blaze® Microbial Products

"Partnering with Nature for a Cleaner Tomorrow"

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Military
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Spills, Leaks
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VIDEOS

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Spills, Leaks
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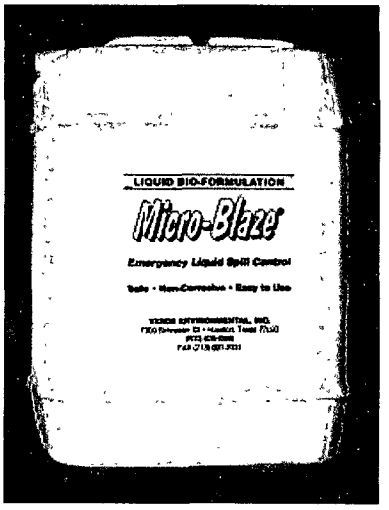
Videos

Micro-Blaze Emergency Liquid Spill Control....

is a bioremediation and spill control product that not only eliminates flammability of hydrocarbons, it breaks down, degrades and digests the waste. Using this product in various applications for the elimination of hydrocarbon and organic wastes* can:

- *Reduce costs of spill treatment*
- *Minimize or eliminate any "dig and haul" charges*
- *Minimize or eliminate "cradle-to-grave" liability many times associated with spill / waste remediation*



Since 1987, the Micro-Blaze family of microbial products have been at the forefront of the bioremediation industry with effective products for government, industrial, marine and commercial use.

The several strains of microbes in **Micro-Blaze Emergency Liquid Spill Control** provide a synergistic degradation of the organic and hydrocarbon pollutants. Its combination of surfactants, nutrients and microbes make it an ideal formulation for use on many pollutants found in spills and contaminated sites.

Use the side bars in the upper left for selecting which application you may need for your facility. Call Verde Environmental at 1-800-626-6598 or your distributor for any specific application or situation you have.

- Micro-Blaze FAQs
- Physical Characteristics
- Application Rates
- MSDS
- The Process of Bioremediation
- BudKicker - Bio-Catalyst
- Case Histories

*: Always work in accordance with your local, regional and federal environmental authorities as to proper spill treatment protocols in your area. This product is listed with the U.S. EPA on the NCP Product Schedule as a bioremediation agent. Disclaimer as required by U.S. EPA regulations: This listing does not mean the EPA approves, recommends, licenses, certifies or authorizes the use of Micro-Blaze Emergency Liquid Spill Control or any other product on an oil discharge. This listing only means that date has been submitted to EPA as required by subpart J of the NCP § 300.915"

Top

Contact us *concerning this web page.*

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

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

CONDITIONS

Operator: OSBORN HEIRS CO P.O. Box 17968 San Antonio, TX 78217	OGRID: 16616
	Action Number: 225838
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation plan is approved as written. Please meet the requirements per Subsection D & E of 19.15.29.12 NMAC prior to submitting the applicable documentation. Operator has 90-days (December 12, 2023) to submit its appropriate or final closure report.	9/13/2023