

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-144
Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOC District Office.
For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOC District Office.

Pit, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application

Type of action: ☐ Below grade tank registration
☐ Permit of a pit or proposed alternative method
☒ Closure of a pit, below-grade tank, or proposed alternative method
☐ Modification to an existing permit/or registration
☐ Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.
Operator: Harvest Four Corners OGRID # 373888
Address: 1755 Arroyo Dr., Bloomfield, NM 87413
Facility or well name: Gallegos Com #005
API Number: 3004521306 OCD Permit Number: _____
U/L or Qtr/Qtr J Section 32 Township 26N Range 11W County: San Juan
Center of Proposed Design: Latitude 36.44241 Longitude -108.02413 NAD83
Surface Owner: ☐ Federal ☒ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.
☐ **Pit:** Subsection F, G or J of 19.15.17.11 NMAC
Temporary: ☐ Drilling ☐ Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☐ no
☐ Lined ☐ Unlined Liner type: Thickness _____ mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other _____
☐ String-Reinforced
Liner Seams: ☐ Welded ☐ Factory ☐ Other _____ Volume: _____ bbl Dimensions: L _____ x W _____ x D _____

3.
☒ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC
Volume: 45 bbl Type of fluid: Produced Water
Tank Construction material: metal
☐ Secondary containment with leak detection ☒ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other _____
Liner type: Thickness _____ mil ☐ HDPE ☐ PVC ☒ Other unspecified

4.
☐ **Alternative Method:**
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

5.
Fencing: Subsection D of 19.15.17.11 NMAC (*Applies to permanent pits, temporary pits, and below-grade tanks*)
☒ Chain link, six feet in height, two strands of barbed wire at top (*Required if located within 1000 feet of a permanent residence, school, hospital, institution or church*)
☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet
☐ Alternate. Please specify _____

6.

Netting: Subsection E of 19.15.17.11 NMAC (*Applies to permanent pits and permanent open top tanks*)☒ Screen ☐ Netting ☐ Other _____☐ Monthly inspections (If netting or screening is not physically feasible)

7.

Signs: Subsection C of 19.15.17.11 NMAC☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers☒ Signed in compliance with 19.15.16.8 NMAC

8.

Variances and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:☐ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.☐ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

9.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC***Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.*****General siting****Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.**- ☐ NM Office of the State Engineer - iWATERS database search; ☐ USGS; ☒ Data obtained from nearby wells☐ Yes ☐ No☐ NA**Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit .**

NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☐ No☐ NAWithin incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. **(Does not apply to below grade tanks)**

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

☐ Yes ☐ NoWithin the area overlying a subsurface mine. **(Does not apply to below grade tanks)**

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

☐ Yes ☐ NoWithin an unstable area. **(Does not apply to below grade tanks)**

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map

☐ Yes ☐ NoWithin a 100-year floodplain. **(Does not apply to below grade tanks)**

- FEMA map

☐ Yes ☐ No**Below Grade Tanks**

Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;.

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☐ No**Temporary Pit using Low Chloride Drilling Fluid** (maximum chloride content 15,000 mg/liter)

Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.)

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☐ No

Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application.

NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 100 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Temporary Pit Non-low chloride drilling fluid

Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☐ No

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, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Permanent Pit or Multi-Well Fluid Management Pit

Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☐ No

Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 500 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

10.

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
- ☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

11.

Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ A List of wells with approved application for permit to drill associated with the pit.
- ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
- ☐ Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

12.

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
☐ Climatological Factors Assessment
☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Quality Control/Quality Assurance Construction and Installation Plan
☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Nuisance or Hazardous Odors, including H₂S, Prevention Plan
☐ Emergency Response Plan
☐ Oil Field Waste Stream Characterization
☐ Monitoring and Inspection Plan
☐ Erosion Control Plan
☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

13.

Proposed Closure: 19.15.17.13 NMAC

Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

- Type: ☐ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ P&A ☐ Permanent Pit ☒ Below-grade Tank ☐ Multi-well Fluid Management Pit
☐ Alternative
- Proposed Closure Method: ☐ Waste Excavation and Removal
☐ Waste Removal (Closed-loop systems only)
☐ On-site Closure Method (Only for temporary pits and closed-loop systems)
☐ In-place Burial ☐ On-site Trench Burial
☐ Alternative Closure Method

14.

Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) **Instructions:** Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC
☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

15.

Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC

Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

adopted pursuant to NMSA 1978, Section 3-27-3, as amended.

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

☐ Yes ☐ No

Within the area overlying a subsurface mine.

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

☐ Yes ☐ No

Within an unstable area.

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map

☐ Yes ☐ No

Within a 100-year floodplain.

- FEMA map

☐ Yes ☐ No

16.

On-Site Closure Plan Checklist: (19.15.17.13 NMAC) *Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.*

- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC
- ☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC
- ☐ Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
- ☐ Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

17.

Operator Application Certification:

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): _____ Title: _____

Signature: _____ Date: _____

e-mail address: _____ Telephone: _____

18.

OCD Approval: ☐ Permit Application (including closure plan) ☒ Closure Plan (only) ☐ OCD Conditions (see attachment)
Report

OCD Representative Signature: Victoria Venegas **Approval Date:** 12/23/2021

Title: Environmental Specialist **OCD Permit Number:** _____

19.

Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC

Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

☒ Closure Completion Date: May 7, 2020

20.

Closure Method:

- ☒ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)
- ☐ If different from approved plan, please explain.

21.

Closure Report Attachment Checklist: *Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.*

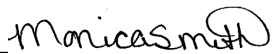
- ☒ Proof of Closure Notice (surface owner and division)
 - ☐ Proof of Deed Notice (required for on-site closure for private land only)
 - ☐ Plot Plan (for on-site closures and temporary pits)
 - ☒ Confirmation Sampling Analytical Results (if applicable)
 - ☐ Waste Material Sampling Analytical Results (required for on-site closure)
 - ☐ Disposal Facility Name and Permit Number *Not Applicable- no soil disposal*
 - ☒ Soil Backfilling and Cover Installation
 - ☐ Re-vegetation Application Rates and Seeding Technique *Not applicable - area reasonably needed for operations*
 - ☐ Site Reclamation (Photo Documentation) *Not applicable - area reasonably needed for operations*
- On-site Closure Location: Latitude _____ Longitude _____ NAD: ☐ 1927 ☐ 1983

22.

Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Monica Smith Title: Environmental Specialist

Signature:  Date: 12/3/2020

e-mail address: msmith@harvestmidstream.com Telephone: 505-632-4625



November 27, 2020

Monica Smith
Environmental Specialist
Harvest Four Corners, LLC
1755 Arroyo Dr.
Bloomfield, New Mexico 87413

Sent via electronic mail to:
msmith@Harvestmidstream.com

**RE: Below Grade Tank Closure Report
Gallegos Com #5
API #3004521306
San Juan County, New Mexico**

Dear Ms. Smith:

Animas Environmental Services, LLC (AES) is pleased to provide the final closure report for the 45-bbl below grade tank (BGT) under operational control of Harvest Four Corners (Harvest) at the Hilcorp Gallegos Com #5 (API #3004521306), located in San Juan County, New Mexico. Tank removal and closure sampling was completed by Harvest. This report is a revision of the original dated June 23, 2020.

1.0 Site Information

1.1 Location

Site Name – Gallegos Com #5 (Hilcorp)
API# – 3004521306
Legal Description – NW¼ SE¼, Section 32, T26N, R11W, San Juan County, New Mexico
Well Head Latitude/Longitude – N36.44219 and W108.02399, respectively
BGT Latitude/Longitude – N36.44241 and W108.02413, respectively
Land Jurisdiction – State of New Mexico
Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map

624 E. Comanche St.
Farmington, NM 87401
505-564-2281
www.animasenvironmental.com

Monica Smith
Gallegos Com #5 BGT Closure Report
November 27, 2020
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1.2 Depth to Groundwater Determination (NMAC 19.15.17.13 Table I)

In accordance with New Mexico Administrative Code (NMAC) 19.15.17.13 Table I (2013), BGT closure criteria are based on the depth to groundwater from the bottom of the BGT:

- **Depth to Groundwater:** Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and a site-specific hydrogeology report for a separate registered BGT on location reported the depth to groundwater as greater than 100 feet below ground surface (bgs). In addition, the site is approximately 60 feet higher than an unnamed wash 1,075 feet to the southeast. AES personnel concluded that depth to groundwater at the site was greater than 100 feet bgs.

Action levels are:

- 10 mg/kg benzene and 50 mg/kg total benzene, toluene, ethylbenzene, and xylene (BTEX);
- 1,000 mg/kg total petroleum hydrocarbons (TPH) as gasoline range organics (GRO) and diesel range organics (DRO);
- 2,500 mg/kg TPH as GRO, DRO, and motor oil range organics (MRO); and
- 20,000 mg/kg chloride.

2.0 BGT Closure

In accordance with standard procedures as outlined in the facility closure plan, Harvest removed any liquids and sludge found within the BGT within 60 days of it ceasing operations. Liquids and sludge were disposed of only at the NMOCD-approved facilities named in the closure plan. Subsequently, Harvest removed the BGT. All removed Harvest BGTs are properly disposed of, recycled, or reused in an approved manner. All associated equipment was also removed from the location.

3.0 Soil Sampling

On May 7, 2020, in accordance with NMAC 19.15.17.13(3)(a), Harvest personnel collected one 5-point soil sample (Bottom) composited from four perimeter samples and one center sample of the BGT footprint from below the BGT liner.

3.1 Laboratory Analyses

Soil sample Bottom was laboratory analyzed for:

Monica Smith
Gallegos Com #5 BGT Closure Report
November 27, 2020
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- BTEX per USEPA Method 8260B Short List;
- TPH for GRO, DRO, MRO per USEPA Method 8015M/D; and
- Chloride per USEPA Method 300.0.

3.2 Laboratory Analytical Results

Laboratory analytical results are summarized in Table 1 and presented on Figure 2. The laboratory analytical report is attached.

Table 1. Soil Laboratory Analytical Results
Gallegos Com #5 Harvest BGT Closure, May 2020

Sample ID	Date Sampled	Depth (ft)	Benzene (8260) (mg/kg)	Total BTEX (8260) (mg/kg)	TPH-GRO (8015) (mg/kg)	TPH-DRO (8015) (mg/kg)	TPH-MRO (8015) (mg/kg)	Chloride (300.0) (mg/kg)
<i>NMOCD Action Level (NMAC 19.15.17.13 Table 1)</i>			10	50	1,000/2,500			20,000
Bottom	5/7/20	--	<0.025	<0.224	<5.0	<9.3	<47	<60

*Note – USEPA Method 8015 (TPH) utilized in lieu of USEPA Method 418.1.

4.0 Conclusions and Recommendations

4.1 Confirmation Sampling

NMOCD action levels for BGT closures are specified in NMAC 19.15.17.13 Table 1 (2013). Laboratory analytical results for benzene and total BTEX concentrations were below the NMOCD action levels of 10 mg/kg and 50 mg/kg, respectively. Laboratory analytical results (per USEPA Method 8015) reported GRO and DRO below the NMOCD action level of 1,000 mg/kg for depths to groundwater greater than 100 feet. Chloride concentrations in Bottom were below the NMOCD action level of 20,000 mg/kg.

4.2 Revegetation and Site Reclamation

Because the well remains in active service, revegetation and site reclamation will not be initiated at this time. When the pipeline is taken out of service, Harvest will submit a C-144 with revegetation and site reclamation details.

Based on BGT laboratory analytical results for benzene, total BTEX, TPH, and chloride at the location of the removed Harvest BGT, the site was backfilled with clean soil. No further work is recommended at Gallegos Com #5 for the Harvest BGT Closure.

Monica Smith
Gallegos Com #5 BGT Closure Report
November 27, 2020
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If you have any questions about this report or site conditions, please do not hesitate to contact myself or Karen Lupton at (505) 564-2281.

Sincerely,



David J. Reese
Environmental Scientist

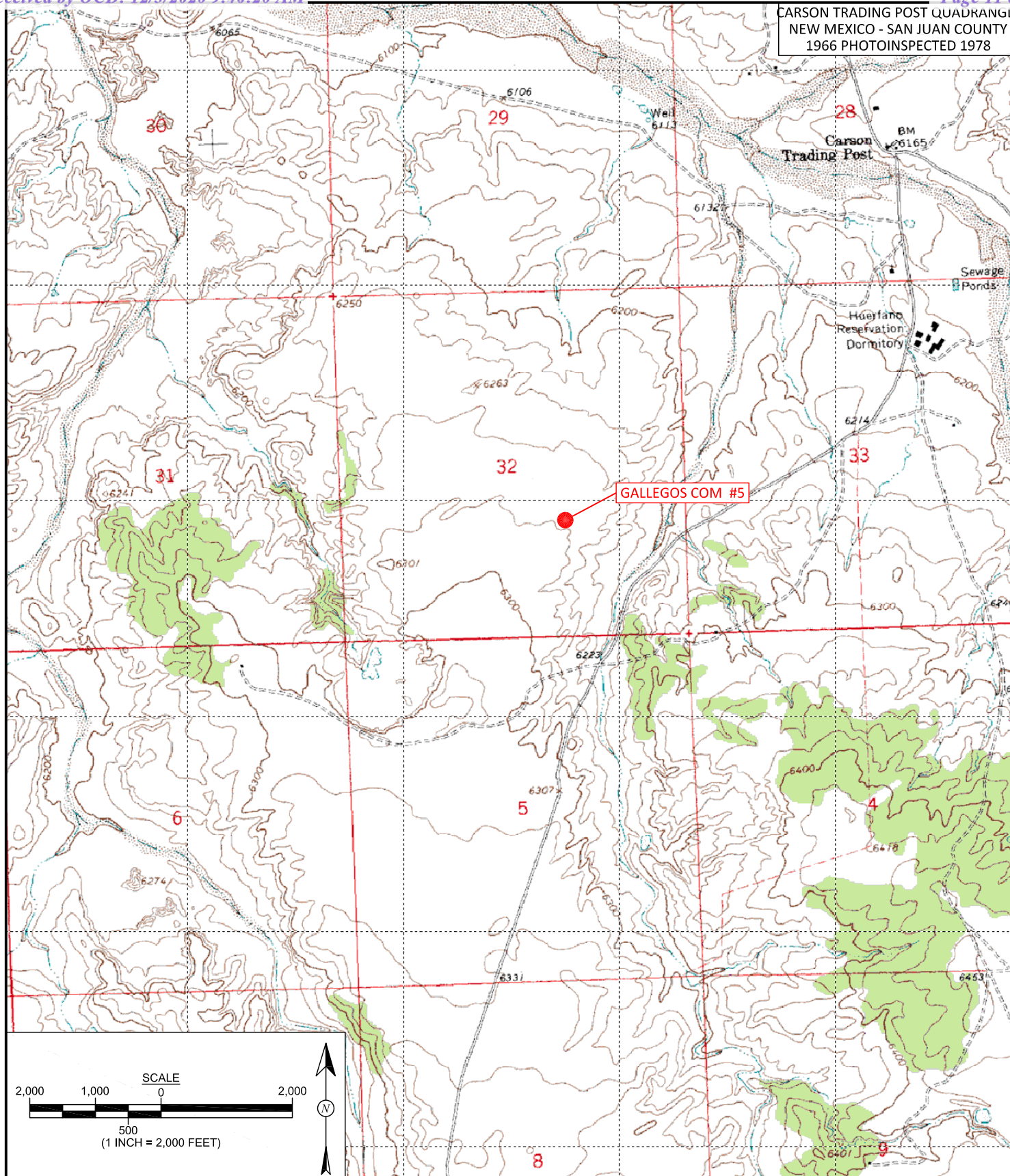


Elizabeth McNally, P.E.

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map
- Photograph Log
- Proof of Closure Notices
- Hall Analytical Report 2005397

HarvestMidstream/Shared Documents/Gallegos Com #5 P&A/Closure Report for C-144/Gallegos Com #5
BGT Closure Report REV 112720.docx



animas
environmental
services

Farmington, NM • Durango, CO
animasenvironmental.com

DRAWN BY:
C. Lameman

DATE DRAWN:
June 2, 2020

REVISIONS BY:
C. Lameman

DATE REVISED:
June 2, 2020

CHECKED BY:
E. McNally

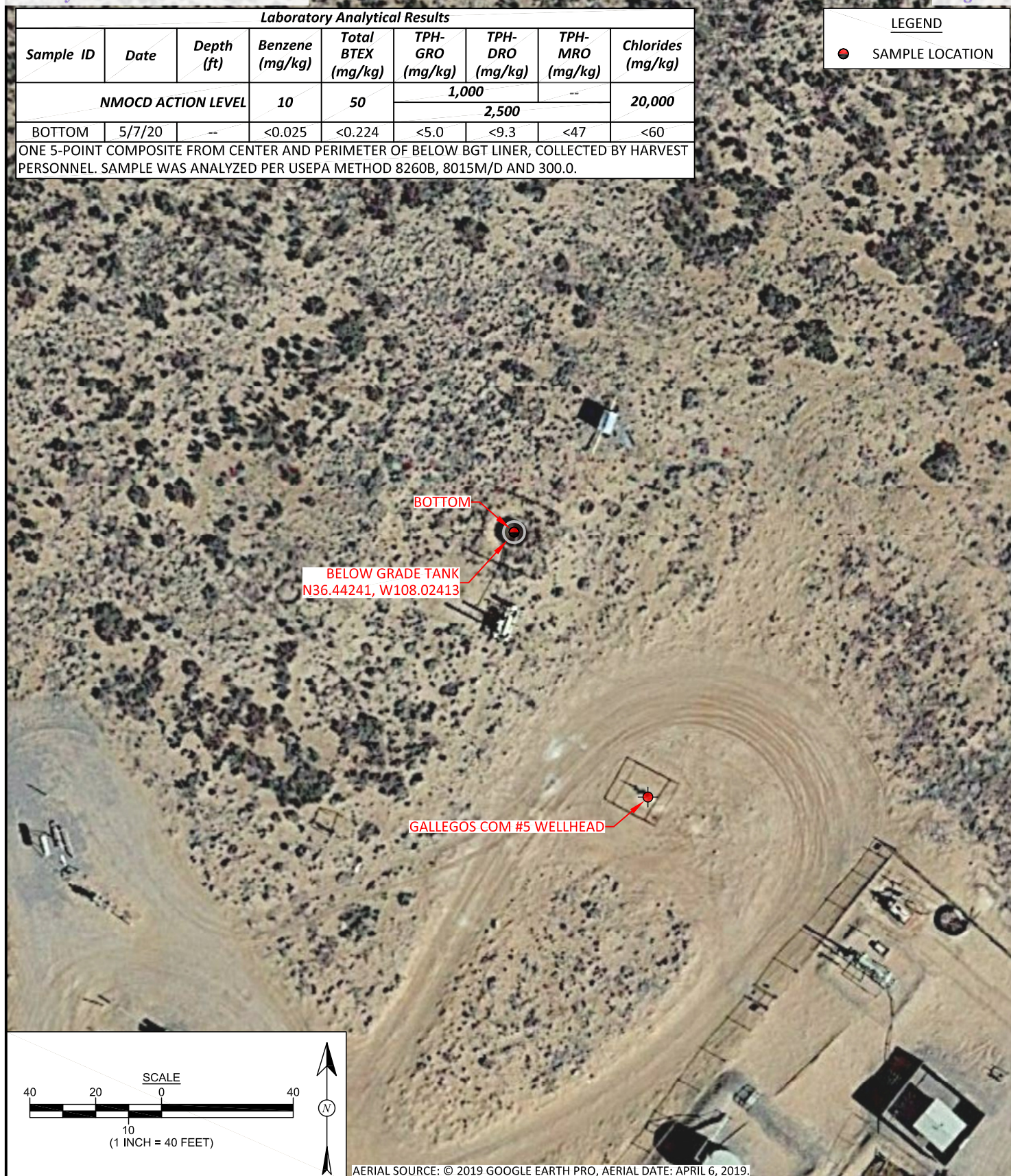
DATE CHECKED:
June 2, 2020

APPROVED BY:
E. McNally

DATE APPROVED:
June 2, 2020

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
HARVEST FOUR CORNERS, LLC
GALLEGOS COM #5
API: 3004521306
NW¼ SE¼, SECTION 32, T26N, R11W
SAN JUAN COUNTY, NEW MEXICO
N36.44219, W108.02399



DRAWN BY:

C. Lameman

DATE DRAWN:

June 2, 2020

REVISIONS BY:

C. Lameman

DATE REVISED:

June 2, 2020

CHECKED BY:

E. McNally

DATE CHECKED:

June 2, 2020

APPROVED BY:

E. McNally

DATE APPROVED:

June 2, 2020

FIGURE 2**AERIAL SITE MAP
BELOW GRADE TANK CLOSURE, MAY 2020**

HARVEST FOUR CORNERS, LLC
GALLEGOS COM #5
API: 3004521306

NW¼ SE¼, SECTION 32, T26N, R11W
SAN JUAN COUNTY, NEW MEXICO
N36.44219, W108.02399



**animas
environmental
services**

Farmington, NM • Durango, CO
animasenvironmental.com

Photo 1: Gallegos Com #005.

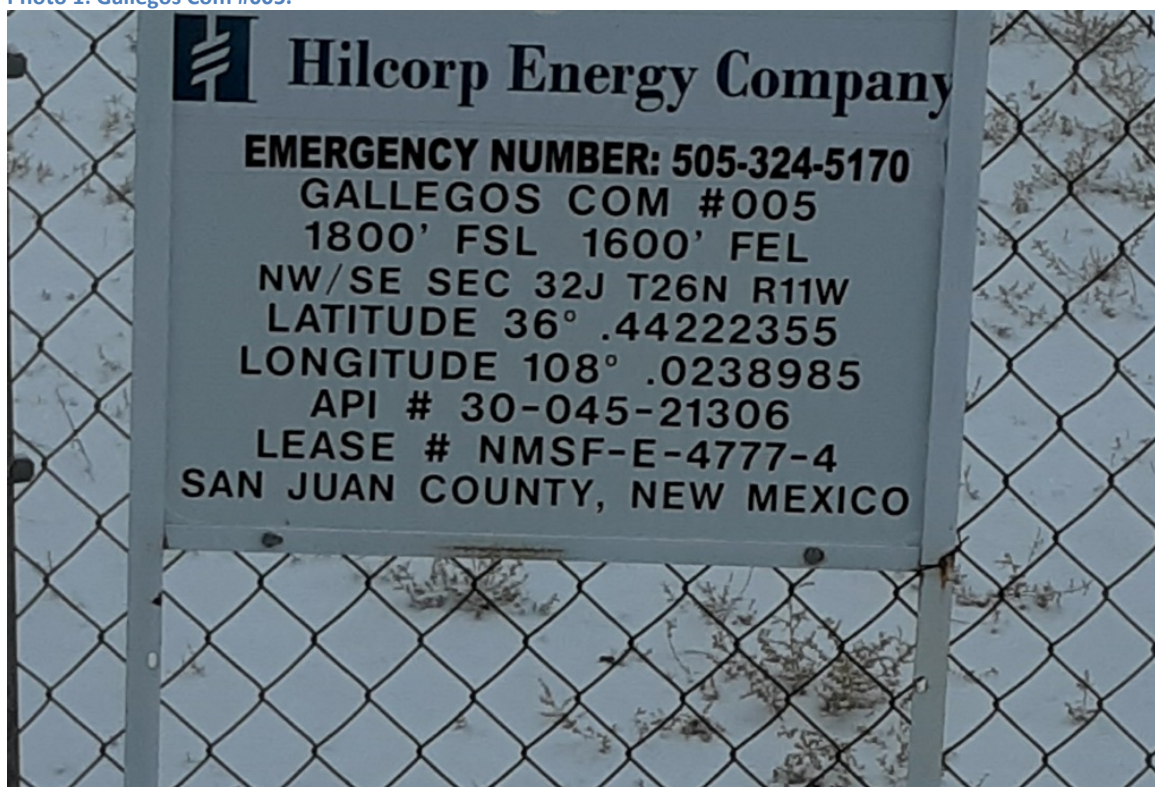


Photo 2: Gallegos Com #005 Backfill.



From: [Monica Smith](#)
To: ["Smith, Cory, EMNRD"](#)
Subject: Harvest - Gallegos Com #005 - Tank removal notification

Cory,

Pursuant to the requirements of the New Mexico Oil Conservation District, Harvest Four Corners, LLC hereby provides notice of the intent to remove the below-grade tanks (BGT) at the following location:

Facility: Gallegos Com #005

APi# 3004521306

Location: Qtr/ Qtr: J, Section 32, Township 26N, Range 11W, San Juan County

Latitude: 36.44241N, Longitude:108.02413W

BGT removal is schedule to begin on Thursday May 7, 2020 at 8:00 am

Please contact me if you have any questions regarding the proposed BGT removal and/or schedule.

Thank-you,

Monica Smith

Harvest Four Corners, LLC

msmith@harvestmidstream.com

(505) 632-4625 - office

(505) 947-1852 - cell

Re: tank removal question

David Reese <dreese@animasenvironmental.com>

Wed 10/14/2020 4:18 PM

To: jkessler@slo.state.nm.us <jkessler@slo.state.nm.us>; amarks@slo.state.nm.us <amarks@slo.state.nm.us>; jyates@slo.state.nm.us <jyates@slo.state.nm.us>;
abiernoff@slo.state.nm.us <abiernoff@slo.state.nm.us>; jbacka@slo.state.nm.us <jbacka@slo.state.nm.us>

Dear State Land Office,

Having not received a response from State Land Office personnel, we will make the required notifications by contacting Director of Mineral Oil and Gas Leasing amarks@slo.state.nm.us every time Harvest Midstream has a tank removal on state land unless we hear differently. Thank you.

Here is a late notice:

Facility: Gallegos Com #005

API# 3004521306

Location: Qtr/ Qtr: J, Section 32, Township 26N, Range 11W, San Juan County

Latitude: 36.44241N, Longitude:108.02413W

BGT removal was scheduled to begin on Thursday May 7, 2020 at 8:00 am

David Reese

Environmental Scientist/CHMM/CPESC

Animas Environmental Services

624 E Comanche St., Farmington, NM 87401

(505) 564-2281

From: David Reese <dreese@animasenvironmental.com>**Sent:** Friday, October 9, 2020 12:31 PM

To: jkessler@slo.state.nm.us <jkessler@slo.state.nm.us>; amarks@slo.state.nm.us <amarks@slo.state.nm.us>; jyates@slo.state.nm.us <jyates@slo.state.nm.us>;
abiernoff@slo.state.nm.us <abiernoff@slo.state.nm.us>; jbacka@slo.state.nm.us <jbacka@slo.state.nm.us>

Subject: Fw: tank removal question

Dear State Land Office,

I have not received a response from my original email to others I thought I would ask you this question so Harvest Midstream can more fully comply with state law.

Harvest Midstream and Animas Environmental are wondering who at the State Land Office we should notify prior to oil well tank removal operations (for tanks on state land), as required by NMAC 19.15.17(E)*. There is a Memorandum of Understanding between NMOCD and BLM in which emails work as notifications (rather than certified mail), so we are wondering if emails suffice for the State, and if so, who we or Harvest should notify? If not, where is certified mail sent?

*Closure notice.

(1) The operator shall notify the surface owner by certified mail, return receipt requested that the operator plans closure operations at least 72 hours, but not more than one week, prior to any closure operation. Notice shall include well name, API number and location. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records is sufficient to demonstrate compliance with this requirement.

Thanks,

David Reese

Environmental Scientist/CHMM/CPESC

Animas Environmental Services

624 E Comanche St., Farmington, NM 87401

(505) 564-2281

From: David Reese**Sent:** Tuesday, October 6, 2020 10:35 AM

To: kmontoya@slo.state.nm.us <kmontoya@slo.state.nm.us>; srromero@slo.state.nm.us <srromero@slo.state.nm.us>; rsalazar@slo.state.nm.us <rsalazar@slo.state.nm.us>; vgonzales@slo.state.nm.us <vgonzales@slo.state.nm.us>

Subject: tank removal question

Dear Kenda Montoya/Samantha Romero/Rubel Salazar/Veronica Gonzales,

We at AES are working with Harvest Midstream here in the San Juan Basin. We and Harvest are wondering who at the State Land Office we should notify prior to tank removal operations (those on state land) described in NMAC 19.15.17(E)*. I see there is a MOU between NMOCD and BLM in which emails suffice to comply with these notices. Do emails suffice for the State? If so, who specifically should we or Harvest contact prior to tank removal operations?

*Closure notice.

(1) The operator shall notify the surface owner by certified mail, return receipt requested that the operator plans closure operations at least 72 hours, but not more than one week, prior to any closure operation. Notice shall include well name, API number and location. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records is sufficient to demonstrate compliance with this requirement.

Sincerely,

David Reese
Environmental Scientist/CHMM/CPESC
Animas Environmental Services
624 E Comanche St., Farmington, NM 87401
(505) 564-2281



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

May 18, 2020

Stanley Dean

Harvest

1755 Arroyo Dr.

Bloomfield, NM 87413

TEL: (505) 632-4475

FAX:

RE: Gallegos Com 5

OrderNo.: 2005397

Dear Stanley Dean:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/9/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2005397

Date Reported: 5/18/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest

Client Sample ID: Bottom

Project: Gallegos Com 5

Collection Date: 5/7/2020 10:00:00 AM

Lab ID: 2005397-001

Matrix: SOIL

Received Date: 5/9/2020 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	5/13/2020 3:02:15 PM	52432
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/13/2020 1:14:17 PM	52415
Surr: BFB	93.2	70-130		%Rec	1	5/13/2020 1:14:17 PM	52415
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	5/13/2020 7:29:23 PM	52417
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/13/2020 7:29:23 PM	52417
Surr: DNOP	99.0	55.1-146		%Rec	1	5/13/2020 7:29:23 PM	52417
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	5/13/2020 1:14:17 PM	52415
Toluene	ND	0.050		mg/Kg	1	5/13/2020 1:14:17 PM	52415
Ethylbenzene	ND	0.050		mg/Kg	1	5/13/2020 1:14:17 PM	52415
Xylenes, Total	ND	0.099		mg/Kg	1	5/13/2020 1:14:17 PM	52415
Surr: 1,2-Dichloroethane-d4	90.3	70-130		%Rec	1	5/13/2020 1:14:17 PM	52415
Surr: 4-Bromofluorobenzene	92.7	70-130		%Rec	1	5/13/2020 1:14:17 PM	52415
Surr: Dibromofluoromethane	106	70-130		%Rec	1	5/13/2020 1:14:17 PM	52415
Surr: Toluene-d8	98.4	70-130		%Rec	1	5/13/2020 1:14:17 PM	52415

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2005397

18-May-20

Client: Harvest
Project: Gallegos Com 5

Sample ID: MB-52432	SampType: ms	TestCode: EPA Method 300.0: Anions								
Client ID: BatchQC	Batch ID: 52432	RunNo: 68855								
Prep Date: 5/13/2020	Analysis Date: 5/13/2020	SeqNo: 2383894	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5	15.00	0	0	50.4	161			S

Sample ID: LCS-52432	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 52432	RunNo: 68855								
Prep Date: 5/13/2020	Analysis Date: 5/13/2020	SeqNo: 2383895	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.6	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 2 of 5

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2005397

18-May-20

Client: Harvest
Project: Gallegos Com 5

Sample ID: LCS-52417	SampType: LCS				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 52417				RunNo: 68847					
Prep Date: 5/12/2020	Analysis Date: 5/13/2020				SeqNo: 2383136	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	70	130			
Surr: DNOP	5.0		5.000		101	55.1	146			

Sample ID: MB-52417	SampType: MBLK				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 52417				RunNo: 68847					
Prep Date: 5/12/2020	Analysis Date: 5/13/2020				SeqNo: 2383137	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		108	55.1	146			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 3 of 5

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2005397

18-May-20

Client: Harvest
Project: Gallegos Com 5

Sample ID: mb-52415	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 52415	RunNo: 68880								
Prep Date: 5/12/2020	Analysis Date: 5/13/2020	SeqNo: 2383955 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.43		0.5000		85.1	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		92.0	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		99.7	70	130			
Surr: Toluene-d8	0.49		0.5000		98.8	70	130			

Sample ID: lcs-52415	SampType: LCS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: LCSS	Batch ID: 52415	RunNo: 68880								
Prep Date: 5/12/2020	Analysis Date: 5/13/2020	SeqNo: 2383956 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	103	70	130			
Toluene	1.0	0.050	1.000	0	101	70	130			
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		89.7	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.3	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		98.4	70	130			
Surr: Toluene-d8	0.48		0.5000		96.6	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 4 of 5

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2005397

18-May-20

Client: Harvest
Project: Gallegos Com 5

Sample ID: mb-52415	SampType: MBLK		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: PBS	Batch ID: 52415		RunNo: 68880							
Prep Date: 5/12/2020	Analysis Date: 5/13/2020		SeqNo: 2383984		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	470		500.0		93.8	70	130			

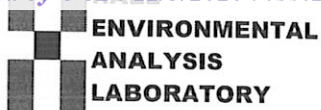
Sample ID: lcs-52415	SampType: LCS		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: LCSS	Batch ID: 52415		RunNo: 68880							
Prep Date: 5/12/2020	Analysis Date: 5/13/2020		SeqNo: 2383985		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	83.3	70	130			
Surr: BFB	480		500.0		95.5	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 5 of 5



Sample Log-In Check List

Client Name: Harvest

Work Order Number: 2005397

RcptNo: 1

Received By: Isaiah Ortiz 5/9/2020 6:45:00 AM

Completed By: Isaiah Ortiz 5/9/2020 7:05:23 AM

Reviewed By: LB

I-OX

I-OX

Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: SPA 5.11.20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Yes			

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 11409

CONDITIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 11409
	Action Type: [C-144] PIT Generic Plan (C-144)

CONDITIONS

Created By	Condition	Condition Date
vvenegas	None	12/23/2021