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

Page 1 of 85

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

# <u>Pit, Below-Grade Tank, or</u> 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. Occesion – 1111 – Energy Constant – 272171
Operator:     Hilcorp Energy Company     OGRID #:     3721/1
Address: <u>382 Road 3100</u> Aztec, NM 8/410
Facility of well name: San Juan 28-7 Unit S8A – West Tank
API Number:         30-039-23983         OCD Permit Number:
U/L or Qtr/Qtr Section 29 Township 28N Range 7W County: Rio Arriba
Center of Proposed Design: Latitude <u>36.63792</u> Longitude <u>-107.60345</u> NAD83
Surface Owner: Kederal Kederal State Private Tribal Trust or Indian Allotment
2.
<b><u>Pit</u>:</b> 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: Thicknessmil 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: <u>120</u> bbl Type of fluid: <u>Produced Water</u>
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: Thicknessmil HDPE PVC Other Unspecified
4.
☐ <u>Alternative Method</u> :
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 ( <i>Required if located within 1000 feet of a permanent residence, school, hospital, institution or church</i> )
Four foot height, four strands of barbed wire evenly spaced between one and four feet
Alternate. Please specify

**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)

### 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

### Variances and Exceptions:

7.

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.

<u>Siting Criteria (regarding permitting)</u>: 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	☐ 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 ⊠ NA
<ul> <li>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. (Does not apply to below grade tanks)</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within the area overlying a subsurface mine. (Does not apply to below grade tanks)</li> <li>Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</li> </ul>	Yes No
<ul> <li>Within an unstable area. (Does not apply to below grade tanks)</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society: Topographic map</li> </ul>	Yes No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	🗌 Yes 🗌 No
Below Grade Tanks	
<ul> <li>Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🛛 No
<ul> <li>Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	□ Yes⊠ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
<ul> <li>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.)</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	🗌 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.	🗌 Yes 🗌 No

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

<i>Received by OCD: 10/15/2021 9:20:16 AM</i>	Page 3 of 8					
<ul> <li>Within 100 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	Yes No					
<u>Temporary Pit Non-low chloride drilling fluid</u>						
<ul> <li>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).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No					
<ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	🗌 Yes 🗌 No					
<ul> <li>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;</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No					
<ul> <li>Within 300 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No					
Permanent Pit or Multi-Well Fluid Management Pit						
<ul> <li>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).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No					
<ul> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	🗌 Yes 🗌 No					
<ul> <li>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.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No					
<ul> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>						
10.         Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N         Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached. <ul> <li>Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC</li> <li>Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC</li> <li>Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC</li> <li>Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC</li> <li>Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC</li> <li>Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC</li> <li>Previously Approved Design (attach copy of design) API Number: or Permit Number:</li> </ul>	IMAC cuments are 9 NMAC 15.17.9 NMAC					
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 doc attached.	cuments are					
Previously Approved Design (attach copy of design) API Number: or Permit Number:						

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<sup>12.</sup> <u>Permanent Pits Permit Application Checklist</u> : Subsection B of 19.15.17.9 NMAC <i>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</i>	2
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         Quality Control/Quality Assurance Construction and Installation Plan         Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC         Hydroge of Hazardous Odors, including H <sub>2</sub> S, 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 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 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	ent Pit
<ul> <li>14.</li> <li>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.</li> <li> 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 Site Reclamation 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</li></ul>	2
<sup>15.</sup> <u>Siting Criteria (regarding on-site closure methods only)</u> : 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material ar 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.	·e
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 Yes NA	No
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	No
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 - NA	No
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	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	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	No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Image: Sector Secto	No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

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<i>Neceiveu DV UCD. 10/13/2021 7.20.10 /11</i>	Received b	v OCD:	10/15/2021	9:20:16 AM
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Received by OCD: 10/15/2021 9:20:16 AM	Page 5 of 8						
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						
<ul> <li>Within the area overlying a subsurface mine.</li> <li>Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</li> </ul>	🗌 Yes 🗌 No						
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological</li> </ul>							
Society; Topographic map	🗌 Yes 🗌 No						
- 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.							
<ul> <li>17.</li> <li>Operator Application Certification:</li> <li>I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and believed.</li> </ul>	ief.						
Name (Print):          Title:							
Signature:          Date:							
e-mail address: Telephone:							
18. OCD Approval: Permit Application (including closure plan) 🔀 Closure Plan (only) 🗌 OCD Conditions (see attachment)							
OCD Representative Signature:	ary 10, 2022						
Title:       Environmental Specialist         OCD Permit Number:       BGT WEST							
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 is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.         Image: Section of the form until an approved closure plan has been obtained and the closure activities have been completed.         Image: Section of the form until an approved closure plan has been obtained and the closure activities have been completed.	the closure report. complete this						
20.         Closure Method:         ⊠ Waste Excavation and Removal       □ On-Site Closure Method       □ Alternative Closure Method       □ Waste Removal (Closed-log)         □ If different from approved plan, please explain.	oop systems only)						
21.         Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please in 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             Soil Backfilling and Cover Installation             Re-vegetation Application Rates and Seeding Technique             Site Reclamation (Photo Documentation)	dicate, by a check						

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Operator Closur	e 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):	Kandis Roland	Title: Operat	ations/Regulatory Technician – Sr				
Signature:	Kandís Roland		Date:10/15/2021				
e-mail address:	kroland@hilcorp.com	Telephone:(713) 757-5246	<u> </u>				

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## Hilcorp Energy Company San Juan Basin Below Grade Tank Closure Report

### Lease Name: San Juan 28-7 Unit 58A - West Tank API No.: 30-039-23983

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure of the below-grade tank referenced above. All proper documentation regarding closure activities is being included with the C-144.

#### General Plan:

 HILCORP shall close a below-grade tank within 60 days of cessation of operations per Subsection G.4 of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, HILCORP will file the C144 Closure Report as required.

# The below-grade tank referenced above was permitted and closed within 60 days of cessation of the below-grade tanks operation.

 HILCORP shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005), JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.

All recovered liquids were disposed of at Basin Disposal (Permit #NM-01-005) and any sludge or soil required to be removed to facilitate closure was hauled to Envirotech Land Farm (Permit #NM-01-011) and JFJ Landfarm % IEI (Permit #NM-01-0010B). The liner was cleaned per Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC was disposed of at the San Juan County Regional Landfill located on CR 3100.

3. HILCORP will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves.

The below-grade tank was disposed of in a division-approved manner.

4. If there is any on-site equipment associated with a below-grade tank, then HILCORP shall remove the equipment, unless the equipment is required for some other purpose.

#### All on-site equipment associated with the below-grade tank was removed.

5. HILCORP will test the soils beneath the below-grade tank to determine whether a release has occurred. HILCORP shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyzed for the constituents listed in Table I of 19.15.17.13 NMAC. Hilcorp shall notify the division of its results on form C-141.

# A five point composite sample was taken of the below-grade tank using sampling tools and all samples tested per Subsection B of 19.15.17.1 3(B)(1)(b). (Sample results attached). Form C-141 is attached.

Components	Tests Method	Limit (mg/kg)
Benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW-846 8021B or 8260B	50
TPH	EPA SW-846 418.1	100
Chlorides	EPA 300.0	250

6. If HILCORP or the division determines that a release has occurred, then HILCORP shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

#### A release was determined for the above referenced well.

7. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Table I of 19.15.17.13 NMAC, then HILCORP shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and revegetate the site.

# The below-grade tank area passed all requirements of Paragraph (4) of Subsection E of 19.15.17.13 NMAC and was backfilled with compacted, non-waste containing, earthen material.

- 8. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email or verbally. The notification of closure will include the following:
  - i. Operator's name
  - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.

#### Notification is attached.

9. The surface owner shall be notified of HILCORP's closing of the below-grade tank 72 hours, but not more than one week, prior to closure as per the approved closure plan via certified mail/email, return receipt requested.

#### Historic record clean-up. Email communications with OCD are attached.

10. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.

The below-grade tank area was re-contoured to match fit, shape, line, form and texture of the surrounding area. Re-shaping including drainage control, to prevent ponding and erosion. Natural drainages were unimpeded and water bars and/or silt traps were placed in areas where needed to prevent erosion on a large scale. Final recontour has a uniform appearance with smooth surface, fitting the natural landscape.

11. HILCORP shall seed the disturbed areas the first favorable growing season following closure of a below-grade tank. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will be used on federally regulated lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private lands. A uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent (50%) of pre- disturbance levels and a total percent plant cover of at least seventy percent (70%) of pre-disturbance levels, excluding noxious weeds. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. Hilcorp will repeat seeding or planting will be continued until successful vegetative growth occurs.

# Provision 13 was accomplished through complying with BLM seeding requirements as allowed by the BLM/OCD MOU.

12. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material, with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.

# The below-grade tank area was backfilled and more than four feet of cover was achieved and the cover included one foot of suitable material to establish vegetation at the site.

- 13. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on C-144 and incorporate the following:
  - Soil Backfilling and Cover Installation (See Report)
  - Re-vegetation application rates and seeding techniques (See Report)
  - Photo documentation of the site reclamation (Included as an attachment)
  - Confirmation Sampling Results (Included as an attachment)
  - Proof of closure notice (Included as an attachment)

From:	Whitehead, Christopher, EMNRD
To:	Kandis Roland
Cc:	Mandi Walker
Subject:	RE: [EXTERNAL] RE: SAN JUAN 28-7 UNIT 58A - INC
Date:	Monday, January 10, 2022 11:49:00 AM

#### Kandis,

Thanks for this data; my understanding is that once the report is submitted, you are unable to add attachments or other documentation, so I can include this in the existing submission. Note I will add this correspondence as the justification and purpose for the sample collection which demonstrates that no contamination is evident at this well site from historical operation of the BGT closed in 2012.

Thanks again for your time in this matter,

**Christopher Whitehead** • Environmental Specialist Environmental Bureau • EMNRD - OCD

From: Kandis Roland <kroland@hilcorp.com> Sent: Monday, January 10, 2022 11:35 AM To: Whitehead, Christopher , EMNRD <Chris.Whitehead@state.nm.us> Cc: Mandi Walker <mwalker@hilcorp.com>; Kandis Roland <kroland@hilcorp.com> Subject: RE: [EXTERNAL] RE: SAN JUAN 28-7 UNIT 58A - INC

Chris,

Attached is the sample report for the testing on 12/10/21. Sample results are in compliance with thresholds. I wasn't sure where you wanted this uploaded. Just let me know.

Thanks,

Kandis Roland HILCORP ENERGY San Juan East/South Regulatory 713.757.5246 kroland@hilcorp.com

From: Whitehead, Christopher , EMNRD <<u>Chris.Whitehead@state.nm.us</u>>
Sent: Friday, December 3, 2021 10:47 AM
To: Kandis Roland <<u>kroland@hilcorp.com</u>>
Cc: Mandi Walker <<u>mwalker@hilcorp.com</u>>
Subject: RE: [EXTERNAL] RE: SAN JUAN 28-7 UNIT 58A - INC

I understand HilCorp has done due diligence to follow-up on this historical closure, so appreciate the effort. Since the application is still open, be sure to just upload the addendum data and narrative separate from the report, I can combine them during review for posting to the file.

**Christopher Whitehead** • Environmental Specialist Environmental Bureau • EMNRD - OCD

From: Kandis Roland <<u>kroland@hilcorp.com</u>>
Sent: Friday, December 3, 2021 9:32 AM
To: Whitehead, Christopher , EMNRD <<u>Chris.Whitehead@state.nm.us</u>>
Cc: Mandi Walker <<u>mwalker@hilcorp.com</u>>; Kandis Roland <<u>kroland@hilcorp.com</u>>
Subject: RE: [EXTERNAL] RE: SAN JUAN 28-7 UNIT 58A - INC

Chris,

We finally heard back but were unsuccessful on finding any additional documentation. HEC will proceed with taking soil samples on the west tank on Friday 12/10/21. I will send out an official 72 hr notice for this work.

Thanks,

Kandis Roland HILCORP ENERGY San Juan East/South Regulatory 713.757.5246 <u>kroland@hilcorp.com</u> From: Kandis Roland <<u>kroland@hilcorp.com</u>>
Sent: Wednesday, December 1, 2021 2:24 PM
To: Whitehead, Christopher , EMNRD <<u>Chris.Whitehead@state.nm.us</u>>
Cc: Mandi Walker <<u>mwalker@hilcorp.com</u>>; Kandis Roland <<u>kroland@hilcorp.com</u>>
Subject: RE: [EXTERNAL] RE: SAN JUAN 28-7 UNIT 58A - INC

#### Chris,

I just wanted to give you an update on this BGT. Our Environmental group has reached out the company that took the samples in 2012 to see if they the additional document that is needed. I will let you know once we hear back from them.

Thanks, Kandis

From: Whitehead, Christopher , EMNRD <<u>Chris.Whitehead@state.nm.us</u>> Sent: Tuesday, November 30, 2021 10:17 AM To: Kandis Roland <<u>kroland@hilcorp.com</u>> Cc: Mandi Walker <<u>mwalker@hilcorp.com</u>> Subject: RE: [EXTERNAL] RE: SAN JUAN 28-7 UNIT 58A - INC

#### Kandis,

I still have this issue in my queue; was there any progress in producing the historical final closure sampling? If not, if samples can be collected from 1' from the historical depth of the BGT and the results are below the applicable standards then this can be submitted with the historical data to demonstrate compliance.

Let me know if you need any other information regarding this,

Christopher Whitehead • Environmental Specialist Environmental Bureau • EMNRD - OCD

From: Kandis Roland <<u>kroland@hilcorp.com</u>> Sent: Thursday, October 21, 2021 1:51 PM To: Whitehead, Christopher , EMNRD <<u>Chris.Whitehead@state.nm.us</u>> Cc: Mandi Walker <<u>mwalker@hilcorp.com</u>> Subject: RE: [EXTERNAL] RE: SAN JUAN 28-7 UNIT 58A - INC

Chris,

I will be out on vacation starting tomorrow and all next week. I have not heard back on this one but will follow up once I am back.

Thanks, Kandis

From: Whitehead, Christopher , EMNRD <<u>Chris.Whitehead@state.nm.us</u>> Sent: Wednesday, October 20, 2021 3:09 PM To: Kandis Roland <<u>kroland@hilcorp.com</u>> Cc: Mandi Walker <<u>mwalker@hilcorp.com</u>> Subject: RE: [EXTERNAL] RE: SAN JUAN 28-7 UNIT 58A - INC

Kandis,

Unfortunately, while reviewing the West Tank closure filed application ID 56261, which has an incidence number NJK1325438462 which has not been closed, I see why this issue has persisted and been left in limbo. The problem is that the initial characterization of contamination that occurred in March and April of 2013 is submitted in both the incidence and the document you filed. In addition, your closure report includes a report that states sampling was performed (samples SC-3 through SC-7); however, no analytical data demonstrating the reported results is included, nor is it found in the record.

To close both the incidence and the now removed BGT, either 1) the analytical data package discussed in the 8/2013 closure report needs to be included in the submittal, or 2) current sampling at the location of BGT WEST and at the depths of the initial contamination discovery is needed.

Please let me know if option 1) is viable and if so, I will leave this submittal open and append it to the closure; however if option 2) is the only option, I will reject this submittal and a new closure report including all the current documentation appending a narrative that describes the closure actions performed/simulated will be needed (including photo-documentation, plot plans, etc).

I could not know this data would not be included until I reviewed the submittal, so this circumstance was unavoidable in this context.

**Christopher Whitehead** • Environmental Specialist Environmental Bureau • EMNRD - OCD

From: Kandis Roland <<u>kroland@hilcorp.com</u>> Sent: Friday, October 15, 2021 9:31 AM To: Whitehead, Christopher , EMNRD <<u>Chris.Whitehead@state.nm.us</u>> Cc: Mandi Walker <<u>mwalker@hilcorp.com</u>> Subject: RE: [EXTERNAL] RE: SAN JUAN 28-7 UNIT 58A - INC

Chris,

I have filed all three permits. Thanks for helping to get this one cleaned up!

East Tank Registration C-144LB – Action ID 56255 East Tank Closure C-144B – Action ID 56259 West Tank Closure C-144B – Action ID 56261

Happy Friday,

Kandis Roland HILCORP ENERGY San Juan East/South Regulatory 713.757.5246 kroland@hilcorp.com

From: Kandis Roland <<u>kroland@hilcorp.com</u>>
Sent: Thursday, October 14, 2021 1:00 PM
To: Whitehead, Christopher , EMNRD <<u>Chris.Whitehead@state.nm.us</u>>
Cc: Mandi Walker <<u>mwalker@hilcorp.com</u>>; Kandis Roland <<u>kroland@hilcorp.com</u>>
Subject: RE: [EXTERNAL] RE: SAN JUAN 28-7 UNIT 58A - INC

Thanks Chris! I will file the C-144 Closure for the West Tank.

East Tank – A BGT permit was never filed. I am working on the registration that I will file through C-144LB and then I will file a C-144B Closure.

From: Whitehead, Christopher , EMNRD <<u>Chris.Whitehead@state.nm.us</u>> Sent: Thursday, October 14, 2021 12:50 PM To: Kandis Roland <<u>kroland@hilcorp.com</u>> Cc: Mandi Walker <<u>mwalker@hilcorp.com</u>> Subject: RE: [EXTERNAL] RE: SAN JUAN 28-7 UNIT 58A - INC

I see, the concern here, that is acceptable. At that time, the remedial action would have occurred under the C-141 anyway, so the proper procedure was followed, but yes we do require the C-144 closure to announce that the action was taken through that process.

Will the East Tank also have its documentation submitted? I will go ahead and create the entry for the West tank on the well profile and label it BGT West with the expectation BGT East will be instead of the typical integer identifiers.

Christopher Whitehead • Environmental Specialist Environmental Bureau • EMNRD - OCD

From: Kandis Roland <<u>kroland@hilcorp.com</u>> Sent: Thursday, October 14, 2021 11:40 AM To: Whitehead, Christopher , EMNRD <<u>Chris.Whitehead@state.nm.us</u>> Cc: Mandi Walker <<u>mwalker@hilcorp.com</u>>; Kandis Roland <<u>kroland@hilcorp.com</u>> Subject: RE: [EXTERNAL] RE: SAN JUAN 28-7 UNIT 58A - INC

Chris,

I agree this one is a mess. I am working on permitting the East tank as described below.

The West tank was permitted in 2008 and the scanned permit was uploaded to OCD 12/13/2019. The tank was removed after the C-141 closure in 2013 and replaced with an AGT. The C-144 BGT closure paperwork was never filed. Am I good to file the C-144 closure for this west tank using the

#### sample report from 2013?

Thanks,

Kandis Roland HILCORP ENERGY San Juan East/South Regulatory 713.757.5246 kroland@hilcorp.com

Kandis

From: Whitehead, Christopher , EMNRD <<u>Chris.Whitehead@state.nm.us</u>>
Sent: Tuesday, October 12, 2021 10:04 AM
To: Kandis Roland <<u>kroland@hilcorp.com</u>>
Cc: Mandi Walker <<u>mwalker@hilcorp.com</u>>
Subject: RE: [EXTERNAL] RE: SAN JUAN 28-7 UNIT 58A - INC

Hello, it appears to be a fairly typical matter of complete compounded confusion. In general, if no closure action is being performed or simulated, then no notice is required. If I understand this correctly, the registration in the well file submitted 12/13/2019 is presumed to be for the west tank six years after closure was performed under a C-141 and a release identified so this BGT is resolved.

The east tank was not registered and its closure not submitted. Does a legacy registration exist for this BGT? Whatever records exist for this, the OCD should have these on file. If a legacy registration exists, please file it through the C-144LB form. If no registration exists, please create a new form with current signatures and dates but submit it through the C-144LB form. After the registration is submitted, please submit the historical closure report through the C-144B system. Please include this correspondence on any submissions associated with this BGT.

**Christopher Whitehead** • Environmental Specialist Environmental Bureau • EMNRD - OCD

From: Kandis Roland <<u>kroland@hilcorp.com</u>> Sent: Friday, October 8, 2021 1:00 PM To: Whitehead, Christopher , EMNRD <<u>Chris.Whitehead@state.nm.us</u>> Cc: Kandis Roland <<u>kroland@hilcorp.com</u>>; Mandi Walker <<u>mwalker@hilcorp.com</u>> Subject: FW: [EXTERNAL] RE: SAN JUAN 28-7 UNIT 58A - INC

Chris,

Here is another historical BGT that needs cleaned up. COP closed out both BGTs and had samples done, see attached, but never filed a C-144 BGT closure.

West Tank – Tank was closed and sampled in 2013. I found a C-141 on OCD's website for this BGT, see attached. This tank also has a BGT permit on file as well. I was not able to find a 72 hr notice in COP records. There is currently an AGT where the BGT once was.

East Tank – See attached sample report found for this BGT. It was closed and sampled in 2013 as well. This tank was never registered as a BGT. Unable to find a 72 hr notice in COP records.

Can I file a closure report using the sample report attached and no 72 hr notice for the West Tank? For the East Tank, this was never registered as a BGT. Do I need to file any paper work for this tank?

Thanks,

Kandis Roland HILCORP ENERGY San Juan East/South Regulatory 713.757.5246 kroland@hilcorp.com

From: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>
Sent: Friday, February 12, 2021 3:23 PM
To: Kandis Roland <<u>kroland@hilcorp.com</u>>; Kelly, Jonathan, EMNRD <<u>Jonathan.Kelly@state.nm.us</u>>
Cc: Cheryl Weston <<u>cweston@hilcorp.com</u>>
Subject: [EXTERNAL] RE: SAN JUAN 28-7 UNIT 58A - INC

#### Kandis,

No I haven't.. I have 69 of these sites.. plus all of our normal other C-144.. I am getting flooded with these request.

Cory Smith • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1000 Rio Brazos | Aztec, NM 87410 505.334.6178 x115 | Cory. Smith@state.nm.us http://www.emrrd.state.nm.us/OCD/

 From: Kandis Roland <kroland@hilcorp.com>

 Sent: Friday, February 12, 2021 2:03 PM

 To: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>; Kelly, Jonathan, EMNRD <<u>Jonathan.Kelly@state.nm.us</u>>

 Cc: Cheryl Weston <<u>cweston@hilcorp.com</u>>; Kandis Roland <<u>kroland@hilcorp.com</u>>

 Subject: [EXT] RE: SAN JUAN 28-7 UNIT 58A - INC

Cory,

Have you had a chance to review this? The INC for this is due 2/21/2021.

Thanks,

Kandis Roland HILCORP ENERGY San Juan South Regulatory 505.324.5149 kroland@hilcorp.com

From: Kandis Roland Sent: Friday, February 5, 2021 12:01 PM To: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>; 'Kelly, Jonathan, EMNRD' <<u>Jonathan.Kelly@state.nm.us</u>> Cc: Kandis Roland <<u>kroland@hilcorp.com</u>>; Cheryl Weston <<u>cweston@hilcorp.com</u>> Subject: FW: SAN JUAN 28-7 UNIT 58A - INC

Cory,

COP closed out both BGTs and had samples done, see attached, but never filed a C-144 BGT closure.

West Tank – Tank was closed and sampled in 2013. I found a C-141 on OCD's website for this BGT, see attached. This tank also has a BGT permit on file as well. I was not able to find a 72 hr notice in COP records. There is currently an AGT where the BGT once was.

East Tank – See attached sample report found for this BGT. It was closed and sampled in 2013 as well. This tank was never registered as a BGT. Unable to find a 72 hr notice in COP records.

Thanks,

Kandis Roland HILCORP ENERGY San Juan South Regulatory 505.324.5149 kroland@hilcorp.com

From: Clara Cardoza Sent: Tuesday, November 24, 2020 8:28 AM To: Kandis Roland <<u>kroland@hilcorp.com</u>> Subject: RE: SAN JUAN 28-7 UNIT 58A - INC

I found two reports for the BGTs.

 From: Kandis Roland

 Sent: Tuesday, November 24, 2020 6:42 AM

 To: Ryan Frost <</td>
 rfrost@hilcorp.com>; Clara Cardoza <</td>

 ctsullivan@hilcorp.com>; Clara Cardoza <</td>
 rccardoza@hilcorp.com>; Mark McKnight <</td>

 <tsullivan@hilcorp.com>
 Ce: Kandis Roland <</td>

 Kestandis Roland 
 resultivan@hilcorp.com>

Subject: SAN JUAN 28-7 UNIT 58A - INC

Today's Date:	11/24/2020						
Well Name:	SAN JUAN 28-7 UNIT 58A	Location:	Sec: 29	Twn: 028N	Rng: 007W	UL: D	
API Number:	30.039.23983 Footage: 790' FNL & 790' FWL						
Operator:	Hilcorp Energy Company	Area/Run/MSO:	10	1006 Cliff Hadden			
Meter #:	95-777-	Pipeline:	ENT				
INC Number:	cJK2032856523	Agency:	OCD Inspector: Jonathan Kelly				
Type of INC:	Verbal	Photos Required:	Yes	Due Date:	2/21/2021		
Issue of Concern:	- Review of prior inspections found that in 2011 inspection location had 2 BGTs prior to the #238N being drilled, both have been closed, no C-144 Closure permits in well file 1 BGT permit in well file.						

Kandis Roland HILCORP ENERGY San Juan South Regulatory 505.324.5149 kroland@hilcorp.com

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December 21, 2021

Kate Kaufman HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733 FAX:

RE: SJ 28 7 58A BGT Closure

OrderNo.: 2112851

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kate Kaufman:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/14/2021 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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 2112851

Date Reported: 12/21/2021

12/20/2021 6:02:11 PM

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT: HILCORP ENERGY** Client Sample ID: W BGT 5 Point **Project:** SJ 28 7 58A BGT Closure Collection Date: 12/13/2021 1:33:00 PM Lab ID: 2112851-001 Matrix: SOIL Received Date: 12/14/2021 8:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) ND 9.7 mg/Kg 1 12/16/2021 11:35:17 AM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 12/16/2021 11:35:17 AM Surr: DNOP 102 70-130 %Rec 1 12/16/2021 11:35:17 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 12/16/2021 3:26:12 AM 4.8 mg/Kg 1 Surr: BFB 99.6 70-130 %Rec 1 12/16/2021 3:26:12 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 mg/Kg 12/16/2021 3:26:12 AM 1 Toluene ND 0.048 mg/Kg 1 12/16/2021 3:26:12 AM Ethylbenzene ND 0.048 mg/Kg 1 12/16/2021 3:26:12 AM Xylenes, Total ND 0.096 mg/Kg 1 12/16/2021 3:26:12 AM Surr: 4-Bromofluorobenzene 104 70-130 %Rec 1 12/16/2021 3:26:12 AM Analyst: JMT **EPA METHOD 300.0: ANIONS** 

ND

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ma/Ka

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

**Qualifiers:** 

Chloride

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 Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

- 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 1 of 5

Client: Project:	HILC SJ 28	ORP ENERGY 7 58A BGT Closure				
Sample ID:	MB-64644	SampType: mblk	TestCode: EPA Method	300.0: Anions		
Client ID:	PBS	Batch ID: 64644	RunNo: 84672			
Prep Date:	12/20/2021	Analysis Date: 12/20/2021	SeqNo: 2977717	Units: mg/Kg		
Analyte		Result PQL SPK valu	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit	Qual
Chloride		ND 1.5				
Sample ID:	LCS-64644	SampType: Ics	TestCode: EPA Method	300.0: Anions		
Client ID:	LCSS	Batch ID: 64644	RunNo: 84672			
Prep Date:	12/20/2021	Analysis Date: 12/20/2021	SeqNo: 2977718	Units: mg/Kg		
Analyte		Result PQL SPK valu	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit	Qual

. too ant	. ~-	0	0	/01.12.0	201120100	·	
14	1.5	15.00	0	92.3	90	110	

#### Qualifiers:

Chloride

- \* 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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- 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

2112851

21-Dec-21

WO#:

1

Client: HILCO	RP ENERG	Y								
Project: SJ 28 7	58A BGT (	Closure								
Sample ID: MB-64526	Samp	Гуре: М	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batc	h ID: 64	526	F	RunNo: <b>8</b>	4564				
Prep Date: 12/15/2021	Analysis [	Date: 12	2/16/2021	S	SeqNo: 2	973590	Units: mg/k	٢g		
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	9.2		10.00		91.6	70	130			
Sample ID: LCS-64526	Samp	Type: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batc	h ID: 64	526	F	RunNo: 8	4564				
Prep Date: 12/15/2021	Analysis [	Date: 12	2/16/2021	S	SeqNo: 2	973591	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.7	68.9	135			
Surr: DNOP	4.4		5.000		87.6	70	130			

#### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

2112851

21-Dec-21

WO#:

**Client:** 

HILCORP ENERGY

21-D	)ec-21
WO#: 21	12851

Project: SJ 28 7	58A BGT Clo	sure								
Sample ID: mb-64506	SampTyp	e: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch II	D: 64	506	F	RunNo: <b>8</b> 4	1565				
Prep Date: 12/14/2021	Analysis Date	e: 12	2/15/2021	S	SeqNo: 29	972207	Units: mg/K	g		
Analyte	Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		104	70	130			
Sample ID: Ics-64506	SampTyp	e: LC	s	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch II	D: 64	506	F	RunNo: 84	4565				
Prep Date: 12/14/2021	Analysis Date	e: 12	2/15/2021	5	SeqNo: 29	972208	Units: mg/K	g		
Analyte	Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	78.6	131			
Surr: BFB	1100		1000		114	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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- 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

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**Client:** 

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

HILCORP ENERGY

<b>Sj 20</b> /	58A BGT C	losure								
Sample ID: mb-64506	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	h ID: 64	506	F	RunNo: 84	4565				
Prep Date: 12/14/2021	Analysis D	Date: 12	/15/2021	S	eqNo: 2	972255	Units: mg/K	g		
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: 4-Bromofluorobenzene	1.1		1.000		106	70	130			
Sample ID: LCS-64506	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Sample ID: LCS-64506 Client ID: LCSS	SampT Batcl	ype: <b>LC</b>	S 506	Tes F	tCode: Ef	PA Method 4565	8021B: Volat	iles		
Sample ID: LCS-64506 Client ID: LCSS Prep Date: 12/14/2021	SampT Batcl Analysis D	ype: LC n ID: 64 Date: 12	S 506 2/15/2021	Tes F S	tCode: EF RunNo: 84 GeqNo: 29	PA Method 4565 972256	8021B: Volat Units: mg/K	iles g		
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Sample ID: LCS-64506 Client ID: LCSS Prep Date: 12/14/2021 Analyte Benzene	SampT Batcl Analysis D Result 0.99	ype: LC n ID: 64 Date: 12 PQL 0.025	S 506 2/15/2021 SPK value 1.000	Tes F S SPK Ref Val 0	tCode: EF RunNo: 84 SeqNo: 29 %REC 98.6	PA Method 4565 972256 LowLimit 80	8021B: Volat Units: mg/K HighLimit 120	iles g %RPD	RPDLimit	Qual
Sample ID: LCS-64506 Client ID: LCSS Prep Date: 12/14/2021 Analyte Benzene Toluene	SampT Batch Analysis D Result 0.99 0.96	ype: LC h ID: 64 Date: 12 PQL 0.025 0.050	S 506 2/15/2021 SPK value 1.000 1.000	Tes F S SPK Ref Val 0 0	tCode: EF RunNo: 84 SeqNo: 29 %REC 98.6 96.3	PA Method 4565 972256 LowLimit 80 80	8021B: Volat Units: mg/K HighLimit 120 120	iles g %RPD	RPDLimit	Qual
Sample ID: LCS-64506 Client ID: LCSS Prep Date: 12/14/2021 Analyte Benzene Toluene Ethylbenzene	SampT Batch Analysis D Result 0.99 0.96 0.96	ype: LC n ID: 64 Date: 12 PQL 0.025 0.050 0.050	S 506 2/15/2021 SPK value 1.000 1.000 1.000	Tes F SPK Ref Val 0 0 0 0	tCode: Ef RunNo: 84 GeqNo: 29 %REC 98.6 96.3 95.9	PA Method 4565 972256 LowLimit 80 80 80	8021B: Volat Units: mg/K HighLimit 120 120 120	iles g %RPD	RPDLimit	Qual
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- \* 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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- 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

21-Dec-21

2112851

WO#:

HALL Hall Environmental ANALYSIS LABORATORY TEL: 505 Website: of	onmental Analysis Labor 4901 Hawki Albuquerque, NM 8 345-3975 FAX: 505-345 clients.hallenvironmenta	ratory ns NE 87109 <b>Sar</b> -4107 11.com	nple Log-In Check	Page 23 d
Client Name: HILCORP ENERGY Work Order	Number: 2112851		RcptNo: 1	
Received By: Desiree Dominguez 12/14/2021 8:1	10:00 AM	1Pm		
Reviewed By: KPG 12/14/21		DA		
Chain of Custody				
. Is Chain of Custody complete?	Yes 🗹	No 🗌	Not Present	
How was the sample delivered?	Courier			
<u>Log In</u>				
. Was an attempt made to cool the samples?	Yes 🗹	No 🗌	NA 🗌	
. Were all samples received at a temperature of $>0^{\circ}$ C to $6.0^{\circ}$ C	C Yes 🗹	No 🗌		
. Sample(s) in proper container(s)?	Yes 🖌	No 🗌		
. Sufficient sample volume for indicated test(s)?	Yes 🔽	No 🗌		
Are samples (except VOA and ONG) properly preserved?	Yes 🔽	No 🗌		
. Was preservative added to bottles?	Yes 🗌	No 🔽	NA 🗌	
. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
). Were any sample containers received broken?	Yes	No 🗹	# of preserved	
. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗌	for pH: (<2 or >12 unless	s noted)
Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗌	Adjusted?	,
Is it clear what analyses were requested?	Yes 🗹	No 🗌		. (
. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗌	Checked by: JN12	114/21
pecial Handling (if applicable)			-	
5. Was client notified of all discrepancies with this order?	Yes	No 🗌	NA 🗹	
Person Notified:	Date:			
By Whom: Regarding:	Via: 🗌 eMail 🗌 F	Phone 🗌 Fax	In Person	
<ol> <li>Additional remarks:</li> </ol>				
7. <u>Cooler Information</u> Cooler No Temp °C Condition Seal Intact Seal	No Seal Date	Signed By	1	

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State of New Mexico **Energy Minerals and Natural Resources** 

Form C-141 Revised August 8, 2011

Page 25 of 85

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

1220 South St. Francis Dr. Santa Fel NM 87505

**Oil Conservation Division** 

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Release	Notification	and C	orrective	Action

Contact Lisa Hunter		
Felephone No. 505-326-9786		
Facility Type Gas Well		
Federal	API No. 300392	23083
Co Fel Fac F	ntact Lisa Hunter lephone No. 505-326-9786 cility Type Gas Well Federal	ntact Lisa Hunter lephone No. 505-326-9786 cility Type Gas Well Federal API No. 300392

urface Owner Federal	Mineral Owner	Federal	API No. 3003923983
			SF-078497

#### LOCATION OF RELEASE

Unit Letter D	Section 29	Township <b>28N</b>	Range 07W	Feet from the <b>790'</b>	North/South Line North	Feet from the <b>790'</b>	East/West Line West	County Rio Arriba
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Latitude\_\_\_36.637665\_\_\_\_ Longitude\_\_\_-107.60258\_\_\_

#### NATURE OF RELEASE

Type of Release Unknown	Volume of Release Unknown	Volume Recovered 60 cubic yds
Source of Release Below Grade Tank	Date and Hour of Occurrence	Date and Hour of Discovery
	Unknown	March 1, 2013
Was Immediate Notice Given?	If YES, To Whom?	
📋 Yes 🔲 No 🖾 Not Required		
By Whom?	Date and Hour	RCVD SEP 5 '13
Was a Watercourse Reached?	If YES, Volume Impacting the Wate	ercourse. UIL CUNS. DIV.
Yes X No		0151.3
If a Watercourse was Impacted, Describe Fully.*		
N/A		
Describe Cause of Problem and Remedial Action Taken.*		
Below Grade Tank Activities.		
Describe Area Affected and Cleanup Action Taken.* Historical hydro subject well. The excavation was 18' x 18' x 11' in depth and 6 soil was transported from Pacheco Ranch and placed in the ex – no further action required. The soil sampling report is attac	ocarbon impacted soil was found 0 yds of soil was transported to I cavation site. Analytical results y hed for review.	during the BGT closure for the EI land farm and 60 yds of clean were below the regulatory standards
I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release in public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediate or the environment. In addition, NMOCD acceptance of a C-141 report d federal, state, or local laws and/or regulations.	ne best of my knowledge and understar otifications and perform corrective acti e NMOCD marked as "Final Report" d e contamination that pose a threat to gr oes not relieve the operator of responsi	nd that pursuant to NMOCD rules and ions for releases which may endanger oes not relieve the operator of liability round water, surface water, human health bility for compliance with any other
Signature:	OIL CONSERV	$\frac{\text{ATION DIVISION}}{1}$
Printed Name: Lisa M. Hunter	Approved by Environmental Specialist	prout V. Kelly
Title: Field Environmental Specialist	Approval Date: 9/1/203	Expiration Date:
E-mail Address: Lisa.Hunter@cop.com	Conditions of Approval:	Attached
Attach Additional Sheets If Necessary	UZK 13	525438462



Animas Environmental Services. LLC

www.animasenvironmental.com

624 E. Comanche

505-564-2281

Durango, Colorado

970-403-3084

Farminaton, NM 87401

August 19, 2013

Lisa Hunter ConocoPhillips San Juan Business Unit Office 214-4 5525 Hwy 64 Farmington, New Mexico 87401

Via electronic mail to: SJBUE-Team@ConocoPhillips.com

RE: West Below Grade Tank Closure, Release Assessment, and Final Excavation Report San Juan 28-7 #58A Rio Arriba County, New Mexico

Dear Ms. Hunter:

On March 1, 4, and 5, and June 18, 2013, Animas Environmental Services, LLC (AES) completed below grade tank (BGT) closure sampling, an initial release assessment, and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) San Juan 28-7 #58A west BGT located in Rio Arriba County, New Mexico. The historical release was discovered during BGT closure sampling at the location. An initial release assessment was completed on March 5, 2013. The final excavation was completed by contractors prior to AES' arrival on location on June 18, 2013.

## 1.0 Site Information

### 1.1 Location

Site Name – San Juan 28-7 #58A West BGT Legal Description - NW¼ NW¼, Section 29, T28N, R7W, Rio Arriba County, New Mexico Well Latitude/Longitude – N36.63766 and W107.60315, respectively BGT/Release Latitude/Longitude - N36.63792 and W107.60345, respectively Land Jurisdiction - Bureau of Land Management (BLM) Figure 1 - Topographic Site Location Map Figure 2 - Aerial Site Map, March 2013 Lisa Hunter San Juan 28-7 #58A West BGT Closure, Release Assessment, and Final Excavation Report August 19, 2013 Page 2 of 7

## 1.2 NMOCD Ranking

In accordance with New Mexico Oil Conservation Division (NMOCD) release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) prior to site work. The release was given a ranking score of 30 based on the following factors:

- Depth to Groundwater: A Pit Remediation and Closure Report form dated November 2000 reported the depth to groundwater as less than 50 feet below ground surface (bgs). (20 points)
- Wellhead Protection Area: The release location is not within a wellhead protection area. (0 points)
- Distance to Surface Water Body: Carrizo Creek is located approximately 350 feet south of the location. (10 points)

### 1.3 Assessments

AES was initially contacted by Steve Welch, CoP representative, on February 28, 2013, for BGT closure sampling at the location. On March 1, 2013, Corwin Lameman and Kelsey Christiansen of AES traveled to the location and collected six soil samples from approximately 0.5 feet below the BGT liner. On March 4, 2013, AES returned to the location and collected an additional five point composite sample (SC-2) from approximately 1.5 feet below the BGT liner. Sample locations are included on Figure 2.

On March 5, 2013, AES personnel completed the release assessment field work. The assessment included collection and field screening of 13 soil samples from six test holes (TH-1 through TH-6). Based on field screening results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On June 18, 2013, AES personnel returned to the location to collect confirmation soil samples of the excavation. The field screening activities included collection of five confirmation soil samples (SC-3 through SC-7) of the walls and base of the excavation. The final excavation measured 21 feet by 25 feet by 11 feet in depth. Sample locations and final excavation extents are presented on Figure 4.

### 2.0 Soil Sampling

On March 1, 2013, during BGT closure sampling, AES personnel conducted field screening and collected five soil samples (S-1 through S-5) from below the BGT. Soil samples were collected from approximately 0.5 feet below the former BGT for field screening of volatile organic compounds (VOCs) and total petroleum hydrocarbon (TPH). A five point composite sample (SC-1) was collected for confirmation laboratory analysis.

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Lisa Hunter San Juan 28-7 #58A West BGT Closure, Release Assessment, and Final Excavation Report August 19, 2013 Page 3 of 7

On March 4, 2013, an additional five point composite sample (SC-2) was collected from approximately 1.5 feet below the former BGT for confirmation laboratory analysis.

A total of 13 soil samples from 6 test holes (TH-1 through TH-6) and 5 composite samples (SC-3 through SC-7) were collected during the release and excavation assessments. All soil samples were field screened for VOCs, and selected samples were analyzed for TPH.

# 2.1 Soil Field Screening

### 2.1.1 Volatile Organic Compounds

A portion of each sample was utilized for field screening of VOC vapors with a photoionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

#### 2.1.2 Total Petroleum Hydrocarbons

Soil samples were also analyzed in the field for TPH per USEPA Method 418.1 using a Buck Scientific Model HC-404 Total Hydrocarbon Analyzer Infrared Spectrometer (Buck). A 3-point calibration was completed prior to conducting soil analyses. Field analytical protocol followed AES's *Standard Operating Procedure: Field Analysis Total Petroleum Hydrocarbons per EPA Method 418.1*.

## 2.2 Laboratory Analyses

The composite soil samples (SC-1 and SC-2) collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto sample chain of custody records. The samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Soil samples were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per USEPA Method 8021B;
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B; and
- Chlorides per USEPA Method 300.0.

## 2.3 Field and Laboratory Analytical Results

On March 1, 2013, BGT closure field screening readings for VOCs via OVM ranged from 0.2 ppm in S-2 up to 1,205 ppm in S-5. Field TPH concentrations ranged from less than 20.0 mg/kg in S-1 to 1,430 mg/kg in S-5.

Lisa Hunter San Juan 28-7 #58A West BGT Closure, Release Assessment, and Final Excavation Report August 19, 2013 Page 4 of 7

On March 5, 2013, initial assessment field screening readings for VOCs via OVM ranged from 0.1 ppm in TH-5 up to 55.7 ppm in TH-1. Field TPH concentrations ranged from less than 20.0 mg/kg in TH-4 through TH-6 to 124 mg/kg in TH-1.

On June 18, 2013, final excavation field screening results for VOCs via OVM ranged from 2.1 ppm in SC-3 up to 2.5 ppm in SC-6 and SC-7. Field TPH concentrations ranged from 48.3 mg/kg in SC-6 to 82.7 mg/kg in SC-4. Field screening VOC and TPH results are summarized in Table 1 and on Figures 2 through 4. The AES field screening reports are attached.

		Sample	VOCs OVM	Field
	Date	Depth	Reading	ТРН
Sample ID	Sampled	(ft)	(ppm)	(mg/kg)
NMO	CD Action Level	*	100	100
S-1	3/1/13	0.5	6.1	<20.0
S-2	3/1/13	0.5	0.2	20.5
S-3	3/1/13	0.5	2.1	379
S-4	3/1/13	0.5	1.6	26.1
S-5	3/1/13	0.5	1,205	1,430
TU 4	2/5/42	10	55.7	124
IH-1	3/5/13	12	4.6	<20.0
<u>ти э</u>	)/r/1)	5	1.2	28.9
10-2	5/5/15	9	0.6	NA
		1.5	1.5	NA
TH-3	3/5/13	4.5	2.7	NA
		8	1.6	NA
TU_/	2/5/12	4.5	0.5	<20.0
117-44	5/5/15	9	1.2	NA
тиг	2/5/12	4	0.2	<20.0
1 m-5	3/3/13	9.5	0.1	NA
ти с	2/5/12	4	0.5	NA
0-11	3/5/13	9	2.7	<20.0
SC-3	6/18/13	1 to 11	2.1	55.2

Table 1. Soil Field Screening VOCs and TPH Results San Juan 28-7 #58A West BGT Closure, Release Assessment, and Final Excavation Report March and June 2013 Lisa Hunter San Juan 28-7 #58A West BGT Closure, Release Assessment, and Final Excavation Report August 19, 2013 Page 5 of 7

Sample ID	Date Sampled	Sample Depth (ft)	VOCs OVM Reading (ppm)	Field TPH (mg/kg)
NMO	CD Action Level	*	100	100
SC-4	6/18/13	1 to 11	2.2	82.7
SC-5	6/18/13	1 to 11	2.3	74.4
SC-6	6/18/13	1 to 11	2.5	48.3
SC-7	6/18/13	11	2.5	49.7

NA - not analyzed

\*Action levels for BGT closure are determined by NMAC 19.15.17.13E; Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993).

Laboratory analytical results for SC-1 collected on March 1, 2013, showed the benzene concentration was below the laboratory detection limit of 0.25 mg/kg. The total BTEX concentration was 2.2 mg/kg. TPH concentrations (as GRO/DRO) were reported at 236 mg/kg. The chloride concentration was below the laboratory detection limit of 30 mg/kg.

Laboratory analytical results for SC-2 collected on March 4, 2013, from approximately 1.5 feet below the former BGT, had a benzene concentration reported below the laboratory detection limit of 0.12 mg/kg. The total BTEX concentration was 1.5 mg/kg. TPH concentrations (as GRO/DRO) were reported at 144 mg/kg. Laboratory analytical results are summarized in Table 2 and included on Figures 2 and 3. Laboratory analytical reports are attached.

March and June 2013										
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH- GRO (mg/kg)	TPH- DRO (mg/kg)	Chlorides (mg/kg)			
NMOCD	Action Leve	*	0.2/10	50	10	00	250/NE			
SC-1	3/1/13	0.5	<0.25	2.2	220	16	<30			
SC-2	3/4/13	1.5	<0.12	1.5	110	34	<30			

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, TPH, and Chlorides San Juan 28-7 #58A West BGT Closure, Release Assessment, and Final Excavation Report

NE – not established

\*Action levels for BGT closure are determined by NMAC 19.15.17.13E; Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993).

Lisa Hunter San Juan 28-7 #58A West BGT Closure, Release Assessment, and Final Excavation Report August 19, 2013 Page 6 of 7

## 3.0 Conclusions and Recommendations

NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13E. On March 1, 2013, field TPH concentrations exceeded the NMOCD action level of 100 mg/kg in two samples, S-3 (379 mg/kg) and S-5 (1,430 mg/kg). Laboratory analytical results for TPH (as GRO/DRO) in SC-1 and SC-2 were also reported above the NMOCD action level of 100 mg/kg with 236 mg/kg and 144 mg/kg, respectively. Benzene and total BTEX concentrations in SC-1 and SC-2 were below the NMOCD action levels of 0.2 mg/kg and 50 mg/kg, respectively. Chloride concentrations were reported below the NMOCD action level of 250 mg/kg. Based on field and laboratory analytical results, a release was confirmed at the location.

On March 5, 2013, AES conducted an initial assessment associated with a historical release discovered during BGT closure confirmation sampling. Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993), and the site was assigned a ranking of 30. Field screening results for VOCs via OVM were below the NMOCD action level of 100 ppm in each sample, with the highest concentration of 55.7 ppm reported in TH-1. Field TPH concentrations above the NMOCD action level of 100 mg/kg were reported in TH-1 (124 mg/kg).

On June 18, 2013, final assessment of the excavation area was completed. Field screening results of the excavation showed that concentrations of VOCs and TPH were below NMOCD action levels for each of the final four walls and base of the excavation. No further work is recommended for the San Juan 28-7 #58A west BGT release area.

If you have any questions about this report or site conditions, please do not hesitate to contact Deborah Watson at (505) 564-2281.

Sincerely,

Bandres R. Cupps

Landrea Cupps Environmental Scientist

Upphith & Mendly

Elizabeth McNally, P.E.

Lisa Hunter San Juan 28-7 #58A West BGT Closure, Release Assessment, and Final Excavation Report August 19, 2013 Page 7 of 7

Attachments:

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, March 2013

Figure 3. Initial Assessment Sample Locations and Results, March 2013

Figure 4. Final Excavation Sample Locations and Results, June 2013

AES Field Screening Reports (030113, 030513, and 061813)

Hall Analytical Reports (1303031 and 1303112)

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														LEGE SAMPLE	<u>ND</u> E LOCATIOI	NS
			Field Sci	eening Re	Sults		1	94.*A			1			48 Q	120	
$\frac{ \operatorname{starther } U }{ \operatorname{track} } \frac{ \operatorname{track}                                      $		Commis 10	Dete	OVM-	ТРН	Chlorides	100	2.40		2			2.01			
$\frac{NMOCD ACTION}{LEVEL}  100 \\ LEVEL \\ S: 3 \\ 3: 3 \\ 3: 1 \\ 3: 3 \\ 3: 1 \\ 3: 3 \\ 3: 1 \\ 3: 3 \\ 3: 1 \\ 3: 3 \\ 3: 1 \\ 3: 3 \\ 3: 1 \\ 3: 3 \\ 3: 1 \\ 3: 3 \\ 3: 1 \\ 3: 3 \\ \mathsf$		Sample ID	Date	(ppm)	(mg/kg)	(mg/kg)	1			Labo	ratory Ana	lytical Res	ults		1992 - 1997 - 19 - 1997 - 1997 - 1997	
$\frac{1}{10000} \frac{1}{100000} \frac{1}{10000000000000000000000000000000000$		NMOC	D ACTION LEVEL	1	100	250	. **	Sample ID	Date	Depth	Benzene	Total BTEX	TPH - GRO	TPH - DRO	Chlorides	the state
$\frac{52}{31/(13)} \frac{1}{100} \frac{2}{100} \frac{2}{100} \frac{1}{100} \frac{1}{100} \frac{3}{100} \frac{1}{100} \frac{3}{100} \frac{1}{100} \frac{3}{100} \frac{1}{100} \frac{3}{100} \frac{1}{100} \frac{3}{100} \frac{1}{100} \frac{3}{100} \frac{1}{100} \frac{1}{100} \frac{3}{100} \frac{1}{100} \frac{1}{100} \frac{3}{100} \frac{1}{100} \frac{1}{100}$		S-1	3/1/13	6.1	<20.0	NA	1			(#)	(mg/kg)	(mg/kg)	(mg/kg	) (mg/kg)	(mg/kg)	- 5-2
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St       31/1/3       1.205       1.430       MA         St       JWET       31/1/3       1.205       1.00       34       <30		S-3 S-4	3/1/13	2.1	26.1	NA	60	TANK	3/1/13	0.5	<0.25	2.2	220	16	<30	4 r
$\frac{S-1 \text{ MEST}}{S-1 \text{ MST}} \frac{3/1/13}{NA} \text{ MA} \text{ MA}$	, i ,	S-5	3/1/13	1,205	1,430	NA	C.	SC-2	3/4/13		<0.12			34	<30	
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W107.60345 $SAN JUAN 28.7 HS8A WELLHEAD$		.i*	WES	T BGT - N	36.63792		<u> _5</u> -	21.		9						÷
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ALEXAL SOURCE: © 2012 MICROSOFT CORPORATION - AVAILABLE EXCLUSIVELY BY DIGITALGLOBE	<u> </u>				A	AERIAL S	OURCI	: © 2012 MICR	OSOFT CORP	ORATION - /	VAILABLE EX	CLUSIVELY B	Y DIGITALO	SLOBEL L		""
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D Watson April 3, 2013 ConocoPhillips	<u>ل</u> ا ا	UL-20	2	W.				Watson	April 3	2013		(		hillips		
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Animas Environmental Services LLC E Menally Anella 2012 RIO ARRIBA COUNTY, NEW MEXICO	Ani	imas Env	ironmer	ntal Ser	vices, L	ĽC Í	E. 1	McNally	April 3,	, 2013		RIO ARRIB	A COUNT	Y, NEW ME	(ICO	




Received by OCD: 10/15/2021 9:20:16 AM



Animas Environmental Services, LCC

www.animasenvironmental.com

624 E. Comanche Farmington, NM 87401 505-564-2281

> Dùrango, Colorado 970-403-3084

Client: ConocoPhillips

Project Location: San Juan 28-7 #58A West Tank

Date: 3/1/2013

Matrix: Soil

**AES Field Screening Report** 

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	Field Chloride (mg/kg)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
S-1	3/1/2013	12:45	North	6.1	NA	14:16	<20.0	20.0	1	КС
S-2	3/1/2013	12:48	South	0.2	NA	14:24	20.5	20.0	1	КС
S-3	3/1/2013	12:51	East	2.1	NA	14:27	379	20.0	1	КС
S-4	3/1/2013	12:52	West	1.6	NA	14:30	26.1	20.0	1	КС
S-5	3/1/2013	12:55	Center	1,205	NA	14:34	1,430	20.0	1	КС

PQL Practical Quantitation Limit

Field Chloride - Quantab Chloride Titrators or Drop Count Titration with Silver Nitrate

Total Petroleum Hydrocarbons - USEPA 418.1

NA Not Analyzed

DF Dilution Factor

\*Field TPH concentrations recorded may be below PQL.

Not Detected at the Reporting Limit

Analyst:

Lelang Christian

ND

### **AES Field Screening Report**

#### **Client:** ConocoPhillips

Project Location: San Juan 28-7 #58A West Tank

#### Date: 3/5/2013

Matrix: Soil



Animas Environmental Services, LLC

www.animasenvironmental.com

624 E. Comanche Farmington, NM 87401 505-564-2281

> Durango, Colorado 970-403-3084

	Collection	Collection	OVM	Time of Sample	Field TPH*	TPH POL		TPH Analysts					
Sample ID	Date	Time	(ppm)	Analysis	(mg/kg)	(mg/kg)	DF	Initials					
TH-1 @ 10'	3/5/2013	11:18	55.7	12:16	124	124 20.0 1		HMW					
TH-1 @ 12'	3/5/2013	11:21	4.6	12:13	<20.0	20.0	1	HMW					
TH-2 @ 5'	3/5/2013	11:25	1.2	12:43	28.9	20.0	1	HMW					
TH-2 @ 9'	3/5/2013	11:27	0.6		Not Al	nalyzed for T	РН						
TH-3 @ 1.5'	3/5/2013	11:33	1.5	Not Analyzed for TPH									
TH-3 @ 4.5'	3/5/2013	11:35	2.7		Not A	nalyzed for T	ЪΗ						
TH-3 @ 8'	3/5/2013	11:40	1.6		Not A	nalyzed for T	ЪΗ						
TH-4 @ 4.5'	3/5/2013	11:42	0.5	12:46	<20.0	20.0	1	HMW					
TH-4 @ 9'	3/5/2013	11:45	1.2		Not Å	nalyzed for T	ΡΗ						
TH-5 @ 4'	3/5/2013	11:47	0.2	12:48	<20.0	20.0	1	HMW					
TH-5 @ 9.5'	3/5/2013	11:48	0.1	Not Analyzed for TPH									
TH-6 @ 4'	3/5/2013	11:51	0.5		Not A	nalyzed for T	РН						
TH-6 @ 9'	3/5/2013	11:53	2.7	12:50	<20.0	20.0	1	HMW					

Total Petroleum Hydrocarbons - USEPA 418.1

- PQL<sup>4</sup> Practical Quantitation Limit
- ND Not Detected at the Reporting Limit
- DF Dilution Factor
- NA Not Analyzed

Analyst:

Aleather M. Woods

Received by OCD: 10/15/2021 9:20:16 AM

### AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

624:E. Comanche Farmington, NM 87401 505-564=2281

> Durango, Colorado 970-403-3084

Client: ConocoPhillips

Project Location: San Juan 28-7 #58A West Tank

#### Date: 6/18/2013

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-3	6/18/2013	8:37	South Wall	2.1	9:18	55.2	20.0	1	нмм
SC-4	6/18/2013	8:39	North Wall	2.2	9:21	82.7	20.0	1	HMW
SC-5	6/18/2013	8:41	West Wall	2.3	9:23	74.4	20.0	1	HMW
SC-6	6/18/2013	8:43	East Wall	2.5	9:26	48.3	20.0	1	нмw
SC-7	6/18/2013	8:45	Base	2.5	9:29	49.7	20.0	1	HMW

PQL Practical Quantitation Limit

- ND Not Detected at the Reporting Limit
- NA Not Analyzed
  - Dilution Factor

Total Petroleum Hydrocarbons - USEPA 418.1 \*Field TPH concentrations recorded may be below PQL.

Analyst:

Aleathin M. Woods

· DF



April 12, 2013 Debbie Watson Animas Environmental Services 624 East Comanche Farmington, NM 87401 TEL: (505) 486-4071 FAX

OrderNo.: 1303031

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

4901 Hawkins NE

Albuquerque, NM 87109

Dear Debbie Watson:

RE: San Juan 28-7 #58A

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/2/2013 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued March 05, 2013.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**Analytical Report** Lab Order 1303031

Date Reported: 4/12/2013

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services Client Sample ID: SC-2-West-Tank SC-1 West Tank -Irc **Project:** San Juan 28-7 #58A Collection Date: 3/1/2013 1:26:00 PM Lab ID: 1303031-002 Matrix: MEOH (SOIL) Received Date: 3/2/2013 12:00:00 PM

Analyses	Result	Result RL Qual			DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS					Analyst: MMD
Diesel Range Organics (DRO)	16	10		mg/Kg	1	3/4/2013 6:27:05 PM
Surr: DNOP	101	72.4-120		%REC	1	3/4/2013 6:27:05 PM
EPA METHOD 8015D: GASOLINE RA	ANGE					Analyst: NSB
Gasoline Range Organics (GRO)	220	25		mg/Kg	5	3/4/2013 11:48:18 AM
Surr: BFB	301	84-116	s	%REC	5	3/4/2013 11:48:18 AM
EPA METHOD 8021B: VOLATILES					•	Analyst: NSB
Benzene	ND	0.25		mg/Kg	5	3/4/2013 11:48:18 AM
Toluene	ND	0.25		mg/Kg	5	3/4/2013 11:48:18 AM
Ethylbenzene	ND	0.25		mg/Kg	5	3/4/2013 11:48:18 AM
Xylenes, Total	2.2	0.50		mg/Kg	5	3/4/2013 11:48:18 AM
Surr: 4-Bromofluorobenzene	118	80-120		%REC	5	3/4/2013 11:48:18 AM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Chloride	ND	30		mg/Kg	20	3/4/2013 10:52:41 AM

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH greater than 2
- **Reporting Detection Limit** RL

- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits S

WO#: 1303031

12-Apr-13

Client:	Animas E	Convironmental	Services									
Project:	San Juan	28-/ #58A										
Sample ID	MB-6301	SampType:	MBLK	Tes	Code: EP	A Method	300.0: Anion	s				
Client ID:	PBS	Batch ID:	6301	R	unNo: <b>89</b>	41						
Prep Date:	3/4/2013	Analysis Date:	3/4/2013	S	eqNo: 25	5320	Units: mg/K	g				
Analyte		Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Chloride		ND	1.5			····						
Sample ID	LCS-6301	SampType:	LCS	Tes	Code: EP	A Method	300.0: Anion	s				
Client ID:	LCSS	Batch ID:	6301	RunNo: 8941								
Prep Date:	3/4/2013	Analysis Date:	3/4/2013	S	eqNo: 25	5321	Units: mg/Kg					
Analyte		Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Chloride		15	1.5 15.00	0	102	90	110					
Sample ID	1303031-001BMS	SampType:	MS	Tes	Code: EP	A Method	300.0: Anion	s				
Client ID:	SC-1 East Tank	Batch ID:	6301	RunNo: <b>8941</b>								
Prep Date:	3/4/2013	Analysis Date:	3/4/2013	S	eqNo: 25	5323	Units: mg/K	g				
Analyte		Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Chloride		93	30 15.00	85.25	51.0	64.4	117			S		
Sample ID	1303031-001BMSI	D SampType:	MSD	Tes	Code: EP	A Method	300.0: Anion	s				
Client ID:	SC-1 East Tank	Batch ID:	6301	R	unNo: <b>89</b>	41						
Prep Date:	3/4/2013	Analysis Date:	3/4/2013	S	eqNo: 25	5324	Units: mg/K	g				
Analyte		Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Chloride		100	30 15.00	85.25	113	64.4	117	9.56	20			

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Page 2 of 5

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# QC SUMMARY REPORT

Hall Environmental	l Analysis	Laboratory,	Inc.
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1303031

WO#:

Page 3 of 5

12-Apr-13

Client: Project:	Animas l San Juan	Environmer 28-7 #58A	ıtal Ser	vices		-								
0														
Sample ID	MB-6300	Sampl	уре: МІ	BLK	restudge: EPA Method 8015D: Diesel Range Organics									
Client ID:	PBS	Batch	ID: 63	00	F	RunNo: <b>8</b> 9	953							
Prep Date:	3/4/2013	Analysis D	ate: 3/	4/2013	S	BeqNo: 2	55779	Units: mg/H	٢g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range	Organics (DRO)	ND	10											
Surr: DNOP	•	9.9		10.00		99.0	72.4	120			•			
Sample ID	LCS-6300	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Dies	el Range (	Drganics				
Client ID:	LCSS	Batch	n ID: 63	00	F	RunNo: 8	953							
Prep Date:	te: 3/4/2013 Analysis Date: 3/4/2013 SeqNo: 255781 Units: mg/Kg													
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range	Organics (DRO)	53	10	50.00	0	106	47.4	122						
Surr: DNOP		5.5		5.000		110	72.4	120						
Sample ID	1303034-001AMS	SampT	ype: MS	S	Tes	tCode: El	PA Method	8015D: Dies	el Range (	Organics				
Client ID:	BatchQC	Batch	n ID: 63	00	F	RunNo: 8961								
Prep Date:	3/4/2013	Analysis D	ate: 3/	6/2013	5	SeqNo: 2	57200	Units: mg/ł	٢g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range	Organics (DRO)	46	9.7	48.59	0	94.4	12.6	148						
Surr: DNOP	)	5.2		4.859		108	72.4	120						
Sample ID	1303034-001AMS	D SampT	ype: M	SD	Tes	tCode: El	PA Method	8015D: Dies	el Range (	Organics				
Client ID:	BatchQC	Batch	n ID: 63	00	F	RunNo: 8	961							
Prep Date:	3/4/2013	Analysis D	ate: 3	/6/2013	S	SeqNo: 2	57201	Units: mg/ł	<b>(</b> g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range	Organics (DRO)	45	10	50.81	0	88.7	12.6	148	1.82	22.5				
Surr: DNOP	)	5.5		5.081		108	72.4	120	0	0				

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

WO#: 1303031

12-Apr-13

Client: Anima Project: San Ju	as Environmen an 28-7 #58A	tal Ser	vices							
Sample ID MB-6293 Client ID: PBS Prep Date: 3/1/2013	Sample IDMB-6293SampType:MBLKSilient ID:PBSBatch ID:R8939Prep Date:3/1/2013Analysis Date:3/4/2013					PA Method 939 55803	8015D: Gase	oline Rang	e	
Analyte Gasoline Range Organics (GRO) Surr: BFB	Result ND 1100	PQL 5.0	SPK value 1000	SPK Ref Val	%REC 109	LowLimit 84	HighLimit 116	%RPD	RPDLimit	Qual
Sample ID LCS-6293 Client ID: LCSS Prep Date: 3/1/2013	SampTy Batch Analysis Da	/pe: LC ID: R8 ate: 3/	S 939 4/2013	Tes F S	tCode: E RunNo: 8 SeqNo: 2	PA Method 939 55804	8015D: Gase	oline Rang	e	
Analyte Gasoline Range Organics (GRO) Surr: BFB	Result 32 1300	PQL 5.0	SPK value 25.00 1000	SPK Ref Val 0	%REC 129 133	LowLimit 62.6 84	HighLimit 136 116	%RPD	RPDLimit	Qual S

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Page 4 of 5

Released to Imaging: 1/10/2022 1:23:47 PM

1.1

1303031 *12-Apr-13* 

WO#:

Client: Animas Project: San Jua	s Environme an 28-7 #584	ntal Ser A	vices							
Sample ID MB-6293	Samp	Гуре: МЕ	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: <b>R8</b>	939	F	RunNo: <b>8</b>					
Prep Date: 3/1/2013	Analysis Date: 3/4/2013			S	SeqNo: 2	55857	Units: mg/k			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			
Sample ID LCS-6293	Samp	Гуре: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: <b>R8</b>	939	F	RunNo: <b>8</b>	939				
Prep Date: 3/1/2013	Analysis [	Date: <b>3</b> /	4/2013	S	SeqNo: 2	55858	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.050	1.000	0	89.2	80	120			
Toluene	0.89	0.050	1.000	0	88.9	80	120			
Ethylbenzene	0.89	0.050	1.000	0	89.0	80	120			
Xvienes Total	2.7	0.10	3.000	0	88.5	80	120			

112

80

120

1.000

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

Surr: 4-Bromofluorobenzene

RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Page 5 of 5

Released to Imaging: 1/10/2022 1:23:47 PM

#### Received by OCD: 10/15/2021 9:20:16 AM

ENVIRONMENTAL ANALYSIS LABORATORY W	4901 Hawkins NE Albuquerque, NM 87105 : 505-345-3975 FAX: 505-345-410; ?ebsite: www.hallenvironmental.con
Client Name: Animas Environmental	Work Order Number: 1303031
Received by/date:AF03/	02/13
Logged By: Lindsay Mangin 3/2/2013	12:00:00 PM
Completed By: Lindsay Mangin 3/4/2013	8:06:26 AM
Reviewed By:	
$\frac{1}{2} \frac{1}{2} \frac{1}$	2013
chain of custody	
1. vvere seals intact?	
2. How was the sample delivered?	
S. How was the sample delivered:	Couner
Log In	
4. Coolers are present? (see 19. for cooler specific inform	mation) Yes 🗹 No 🗌 NA 🗌
5. Was an attempt made to cool the samples?	Yes 🗹 No 🗌 🛛 NA 🗌
6. Were all samples received at a temperature of >0° C	to 6.0°C Yes 🗹 No 🗔 NA 🗌
7. Sample(s) in proper container(s)?	Yes 🗹 No 🗀
8. Sufficient sample volume for indicated test(s)?	Yes 🗹 No 🗌
9. Are samples (except VOA and ONG) properly preserve	red? Yes 🗹 No 🗋
10. Was preservative added to bottles?	Yes 🗌 No 🗹 🛛 NA 🗌
11. VOA vials have zero headspace?	
13 Does paperwork match hottle lahels?	Yes V No 🗍 # of preserved
(Note discrepancies on chain of custody)	bottles checked
14. Are matrices correctly identified on Chain of Custody?	Yes ☑ No □ (<2 or >12 unless noted)
15. Is it clear what analyses were requested?	Yes V No Adjusted?
16. Were all holding times able to be met?	Yes 🗹 No 🗋
	Checked by:
Special Hanoling (If applicable)	
17. Was client notified or all discrepancies with this order?	
Person Notified:	Date:
By Whom:	Via: 🔄 eMail 🔄 Phone 🗌 Fax 🗌 In Person
Regarding:	
Client Instructions:	· · · · · ·

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#### 19. Cooler Information

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Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.9	Good	Yes			

Page 1 of 1

Received by OCD: 10/15/2021 9:20:16 AM

С	hain <sup>.</sup>	of-Cu	ustody Record	Turn-Around	Time:		] 📕		, .		24. T 18	<b>1</b> 11	811.	. T F	<b>.</b>	AIR	a E R'	я <b>т</b> а	8
Client:	E An	rima	s Environ menta	🛛 🗆 Standard	d 🕅 Rush	sameday				H A	ali Nai	LYS	IN N STS	5 L	ae	80 80	icn Rai	lia: For	L 2Y
·	Se	(152)		Project Nam	e: 7.				¥.	N N	/ww.ha	allenv	/iron	ment	tal.co	om			
Mailing	Address	624	- E. Comanche	San	Juan	28-7 #58A		490	01 Ha	awkin	s NE	- Alt	ouqu	erqu	e, NI	M 87	109	-	
F	arm	nete	n NU 27401	Project #:		-	]	Te	I. 50	5-345	5-3975		Fax	505-	345-	4107	,		
Phone	#: Š	564-	2281						Ì			Anal	ysis	Réq	uest				
email o	r Fax#:			Project Mana	ager:		1	(ylu	ê				04)	6					
QA/QC I ∦ Stan	Package: dard		Level 4 (Full Validation)	D.	Watso	in	s (802	(Gas c	年/0		(IMS)		PO <sub>4</sub> ,S	PCB'					
Accredi	tation	_		Sampler:	(C & (	il-		Hd	Б	<del>,</del>	<del>(</del> ) 2		0°,	3082		ľ	20.05		1
	AP	□ Othe	er	On lice:	XÞ-Yes.			+	С К О	418.	504. r 82	s	0°	3 / Se		(A)	2		
	(Type)_ I	l	T	Sample Ten	perature 37	7		TBE	<u>е</u>	por	10 c	letal	CIP	icide	Ŕ	-i-	2		5
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALINGER 1303031	ЗТЕХ + <b>4</b>	BTEX + M	TPH 8015	TPH (Meth	EDB (Met) PAH's (83	RCRA 8 N	Anions (F,	3081 Pest	3260B (VC	3270 (Sen	W MM		1:1-1-1-1-1-1-1-
3-1-13	1228	Soil	SEI Bast Tank	Meoff, Kif	Meatt	-001	$\overline{\mathbf{x}}$		X				$\left  \right\rangle$				X		Ť
3-1-13	1326	Sail	5C-2 West Tank	402200	Non	-002	X		X								X		
<u> </u>																			
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Date:	Time:	Relinquish	ed by:	Received by:	. ) .	Date Time	Ren	narks	Bi	1 -	ho (	SON	000	Ph	<u>i    ;</u>	75			
5-1-13	1651	1 el	in m	Misti	e black	2º11/13 1651	wo	: [0]	345	850	ĵ		V	/Sev	D	'BE	NAL	-E	•
Date:	l i ime:			Received by:	11		Act	.Cod	e:C	200	, ) 	•	6r	Jer	ed !	by:	Ster	e We	Ich
"/13	11715	1/ YN	UnTere Walter	1 Sta	Car	(2:00	SUD	eni	50/	She	12 ar	M.		An	ea	.'2	.3 (	LUN	355

If necessary, samples submitted to Hall Environmental may be subcontracted to other accordited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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March 06, 2013

Debbie Watson Animas Environmental Services 624 East Comanche Farmington, NM 87401 TEL: (505) 486-4071 FAX

RE: CoP San Juan 28-7 #58A West Tank

OrderNo.: 1303112

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/5/2013 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 <u>www.hallenvironmental.com</u> or the state specific web sites. 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. 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.

Sincerely,

andig

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**Analytical Report** Lab Order 1303112

Date Reported: 3/6/2013

## Hall Environmental Analysis Laboratory, Inc.

	THOD 8015B. DIESEL RA	NGE ORGANICS						Analyst	MMD
Analyses		Result	RL (	Qual	Units		DF	Date Analyzed	
Lab ID:	1303112-001	Matrix:	MEOH (SC	DIL)	Received	Date:	3/5/2013	9:55:00 AM	
Project:	CoP San Juan 28-7 #58A	West Tank			Collection	Date:	3/4/2013	11:50:00 AM	
CLIENT:	Animas Environmental S	Services		С	lient Samp	le ID:	<del>sc-1</del> So	C-2 -Irc	

Diesel Range Organics (DRO)	34	10		mg/Kg	1	3/5/2013 1:12:38 PM
Surr: DNOP	103	72.4-120		%REC	1	3/5/2013 1:12:38 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	110	25		mg/Kg	5	3/5/2013 2:16:58 PM
Surr: BFB	316	84-116	S	%REC	5	3/5/2013 2:16:58 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	3/5/2013 2:16:58 PM
Toluene	ND	0.25		mg/Kg	5	3/5/2013 2:16:58 PM
Ethylbenzene	ND	0.25		mg/Kg	5	3/5/2013 2:16:58 PM
Xylenes, Total	1.5	0.50		mg/Kg	5	3/5/2013 2:16:58 PM
Surr: 4-Bromofluorobenzene	117	80-120		%REC	5	3/5/2013 2:16:58 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Chloride	ND	30		mg/Kg	. 20	3/5/2013 11:32:57 AM

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

Ē Value above quantitation range

- J Analyte detected below quantitation limits
- Р Sample pH greater than 2
- Reporting Detection Limit RL

- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

Spike Recovery outside accepted recovery limits S

WO#: 1303112

06-Mar-13

Client: Project:	Animas E CoP San .	nvironmenta Juan 28-7 #5	l Ser 8A V	vices Vest Tank							
Sample ID	MB-6328	SampTyp	e: ME	3LK	Tes	tCode: E	PA Method	300.0: Anion	s ,		
Client ID:	PBS	Batch I	): <b>63</b> :	28	F	unNo: 8	986				
Prep Date:	3/5/2013	Analysis Date	e: 3/	5/2013	. S	eqNo: 2	56634	Units: mg/K	g		
Analyte Chloride		Result I	PQL 1.5	SPK value	SPK Ref Val	%REC	. LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID	LCS-6328	SampTyp	e: LC	s	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch II	): <b>63</b> :	28	F	tunNo: 8	986				
Prep Date:	3/5/2013	Analysis Date	e: 3/	5/2013	S	SeqNo: 2	56635	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	·	16	1.5	15.00	0	104	90	110			
Sample ID	1303064-001AMS	SampTyp	e: MS		Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	BatchQC	Batch II	): <b>63</b>	28	F	lunNo: 8	986				
Prep Date:	3/5/2013	Analysis Date	e: 3/	5/2013	5	eqNo: 2	56638	Units: mg/K	g		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		17	7.5	15.00	4.634	83.5	64.4	117			
Sample ID	1303064-001AMS	<b>)</b> SampTyp	e: MS	3D	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	BatchQC	Batch II	): <b>63</b>	28	Я	tunNo: 8	986				
Prep Date:	3/5/2013	Analysis Date	e: 3/	5/2013	S	eqNo: 2	56639	Units: mg/K	g		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	<u></u>	18	7.5	15.00	4.634	92.2	64.4	117	7.31	20	

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- $B \, \, \cdot \,\,$  Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

1303112

WO#:

06-Mar-13

Client: Animas Project: CoP Sar	Environme 1 Juan 28-7	ntal Ser #58A V	vices Vest Tank				,		·	
Sample ID MB-6302	SampT	ype: ME	BLK	Tes	Code: El	PA Method	8015B: Gasc	line Rang	e	
Client ID: PBS	Batch	n ID: R8	966	R	unNo: 8	966				
Prep Date: 3/4/2013	Analysis D	ate: 3/	5/2013	S	eqNo: 2	56484	Units: mg/H	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 1100	5.0	1000		108	84	116			•
Sample ID LCS-6302	SampT	ype: LC	S	Tes	Code: El	PA Method	8015B: Gaso	line Rang	e	
Client ID: LCSS	Batch	n ID: <b>R8</b>	966	. R	unNo: 8	966				
Prep Date: 3/4/2013	Analysis D	ate: 3/	5/2013	S	eqNo: 2	56485	Units: mg/H	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	111	62.6	136			
Surr: BFB	1200		1000		120	84	116	•		S

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 3 of 4

WO#: **1303112** *06-Mar-13* 

Client: Animas D Project: CoP San	Environme Juan 28-7	ntal Ser #58A V	vices Vest Tank							
Sample ID MB-6302	SampT	ype: ME	BLK	Test	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	h ID: R8	966	R	unNo: 8	966				
Prep Date: 3/4/2013	Analysis D	Date: 3/	5/2013	S	eqNo: 2	56514	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050		•						
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			
Sample ID LCS-6302	SampT	Type: LC	s	Test	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batcl	h ID: <b>R8</b>	966	F	tunNo: <b>8</b>	966				
Prep Date: 3/4/2013	Analysis E	Date: 3/	5/2013	S	eqNo: 2	56515	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.050	1.000	0	93.3	80	120			
Toluene	0.92	0.050	1.000	0	92.1	80	120			
Ethylbenzene	0.92	0.050	1.000	0	91.5	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.4	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

#### Received by OCD: 10/15/2021 9:20:16 AM

ENVIRONMENTAL ANALYSIS LABORATORY Website: W	4901 Hawkins NE Albuguergue, NM 87105 5-3975 FAX: 505-345-410; www.hallenvironmental.con
Client Name: Animas Environmental	Work Order Number: 1303112
Received by/date: 11-1 03/05/13	
Logged By: Michelle Garcia 3/5/2013 9:55:00	AM Mirele Comins
Completed By: Michelle Garcia 3/5/2013 10:09:1	5 AM Minute Garine
Chain of Custody	
1 Were seals intact?	Yes 🔲 No 💭 Not Present 🗹
2. Is Chain of Custody complete?	Yes ☑ No □ Not Present □
3. How was the sample delivered?	Courier
Log In	
4. Coolers are present? (see 19. for cooler specific information)	Yes 🗹 No 🗌 🛛 NA 🗌
5. Was an attempt made to cool the samples?	Yes 🗹 No 🗌 🛛 NA 🗌
6. Were all samples received at a temperature of >0° C to 6.0°C	C Yes 🗹 No 🗌 NA 🗍
7. Sample(s) in proper container(s)?	Yes 🗹 No 🗌
8. Sufficient sample volume for indicated test(s)?	Yes 🗹 No 🗔
9 Are samples (except VOA and ONG) properly preserved?	Yes 🗹 No 🗔
10. Was preservative added to bottles?	Yes 🗌 No 🗹 🛛 NA 🗌
11. VOA vials have zero headspace?	Yes 🗌 No 🗍 No VOA Vials 🗹
12. Were any sample containers received broken?	Yes No 🗹
<ol> <li>13. Does paperwork match bottle labels? (Note discrepancies on chain of custody)</li> </ol>	Yes V No + of preserved bottles checked for pH
14. Are matrices correctly identified on Chain of Custody?	Yes
15. Is it clear what analyses were requested?	Yes V No Adjusted?
16. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹 No 🗌 Checked by:
Special Handling (if applicable)	
17. Was client notified of all discrepancies with this order?	Yes 🗌 No 🗌 🛛 NA 🗹
Person Notified:	Date:
By Whom: V	/ia: 🗌 eMail 📋 Phone 📄 Fax 📄 In Person
Regarding:	
Client Instructions:	
18. Additional remarks:	
19. <u>Cooler Information</u>	
Cooler No Temp °C Condition Seal Intact Seal N	No Seal Date Signed By
1 1.0 Good Yes	

Page 1 of 1

Received by OCD: 10/15/2021 9:20:16 AM

Page	54	01	f 85
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C	hain-	of-Cu	stody Record	Turn-Around	Time:				1. a. 1.	1-			E	NV	TR	20	NR	1E)	NT.	AL	
Client:	Anima	s Envi	ronmental Services	Standard	🗶 Rush	Same Day_				A	N.	AL	YS.	515	5 L	AE	30	RA	TO	RY	•
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Farm	ninator	NM	R7401	Project #:			1	Τe	el. 50	)5-34	5-39	975	F	ax	505-	345-	4107	7			•
Phone a	#: 505	-564	- 72.8)				1					× A	naly	sis	Req	uest					4 °
email o	r Fax#:			Project Mana	ger:		<b>(</b>	nly)						0 <sub>4</sub> )							
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Date	Time	Matrix	Sample Request ID	Container	Preservative	<b>HEATING</b>	+ >	4	801	(Met	(Me	s (8;	<b>4</b> 8	IS (F	Pes	S	(Se				:
20,0				Type and #	Туре	12/5/23/19	JE)	3TE)	E	Hd	DB	AH	SCR.	Vnior	081	1260	270				
3/4/12	1150	50:1	57-1	MOHKI	MEOH	-071	X	<u> </u>	1			<u> </u>		X	_ω						F
<u>, 1715</u>	11.00			/402			+									-1			-+-	┥┤	F
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1413	1100	<u>y you</u>	all freeder	I A	<u> </u>	<u> </u>	100														

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



www.animasenvironmental.com

August 19, 2013

Lisa Hunter ConocoPhillips San Juan Business Unit Office 214-4 5525 Hwy 64 Farmington, New Mexico 87401

Via electronic mail to: <u>SJBUE-Team@ConocoPhillips.com</u>

#### RE: West Below Grade Tank Closure, Release Assessment, and Final Excavation Report San Juan 28-7 #58A Rio Arriba County, New Mexico

Dear Ms. Hunter:

On March 1, 4, and 5, and June 18, 2013, Animas Environmental Services, LLC (AES) completed below grade tank (BGT) closure sampling, an initial release assessment, and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) San Juan 28-7 #58A west BGT located in Rio Arriba County, New Mexico. The historical release was discovered during BGT closure sampling at the location. An initial release assessment was completed on March 5, 2013. The final excavation was completed by contractors prior to AES' arrival on location on June 18, 2013.

#### 1.0 Site Information

#### 1.1 Location

Site Name – San Juan 28-7 #58A West BGT Legal Description - NW¼ NW¼, Section 29, T28N, R7W, Rio Arriba County, New Mexico Well Latitude/Longitude – N36.63766 and W107.60315, respectively BGT/Release Latitude/Longitude - N36.63792 and W107.60345, respectively Land Jurisdiction - Bureau of Land Management (BLM) Figure 1 - Topographic Site Location Map Figure 2 - Aerial Site Map, March 2013

505-564-2281 Durango, Colorado

Farmington, NM 87401

Durango, Colorado 970-403-3084

624 E. Comanche

### 1.2 NMOCD Ranking

In accordance with New Mexico Oil Conservation Division (NMOCD) release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) prior to site work. The release was given a ranking score of 30 based on the following factors:

- Depth to Groundwater: A Pit Remediation and Closure Report form dated November 2000 reported the depth to groundwater as less than 50 feet below ground surface (bgs). (20 points)
- Wellhead Protection Area: The release location is not within a wellhead protection area. (0 points)
- Distance to Surface Water Body: Carrizo Creek is located approximately 350 feet south of the location. (10 points)

### 1.3 Assessments

AES was initially contacted by Steve Welch, CoP representative, on February 28, 2013, for BGT closure sampling at the location. On March 1, 2013, Corwin Lameman and Kelsey Christiansen of AES traveled to the location and collected six soil samples from approximately 0.5 feet below the BGT liner. On March 4, 2013, AES returned to the location and collected an additional five point composite sample (SC-2) from approximately 1.5 feet below the BGT liner. Sample locations are included on Figure 2.

On March 5, 2013, AES personnel completed the release assessment field work. The assessment included collection and field screening of 13 soil samples from six test holes (TH-1 through TH-6). Based on field screening results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On June 18, 2013, AES personnel returned to the location to collect confirmation soil samples of the excavation. The field screening activities included collection of five confirmation soil samples (SC-3 through SC-7) of the walls and base of the excavation. The final excavation measured 21 feet by 25 feet by 11 feet in depth. Sample locations and final excavation extents are presented on Figure 4.

### 2.0 Soil Sampling

On March 1, 2013, during BGT closure sampling, AES personnel conducted field screening and collected five soil samples (S-1 through S-5) from below the BGT. Soil samples were collected from approximately 0.5 feet below the former BGT for field screening of volatile organic compounds (VOCs) and total petroleum hydrocarbon (TPH). A five point composite sample (SC-1) was collected for confirmation laboratory analysis.

Lisa Hunter San Juan 28-7 #58A West BGT Closure, Release Assessment, and Final Excavation Report August 19, 2013 Page 3 of 7

On March 4, 2013, an additional five point composite sample (SC-2) was collected from approximately 1.5 feet below the former BGT for confirmation laboratory analysis.

A total of 13 soil samples from 6 test holes (TH-1 through TH-6) and 5 composite samples (SC-3 through SC-7) were collected during the release and excavation assessments. All soil samples were field screened for VOCs, and selected samples were analyzed for TPH.

### 2.1 Soil Field Screening

### 2.1.1 Volatile Organic Compounds

A portion of each sample was utilized for field screening of VOC vapors with a photoionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

#### 2.1.2 Total Petroleum Hydrocarbons

Soil samples were also analyzed in the field for TPH per USEPA Method 418.1 using a Buck Scientific Model HC-404 Total Hydrocarbon Analyzer Infrared Spectrometer (Buck). A 3-point calibration was completed prior to conducting soil analyses. Field analytical protocol followed AES's *Standard Operating Procedure: Field Analysis Total Petroleum Hydrocarbons per EPA Method 418.1*.

### 2.2 Laboratory Analyses

The composite soil samples (SC-1 and SC-2) collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto sample chain of custody records. The samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Soil samples were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per USEPA Method 8021B;
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B; and
- Chlorides per USEPA Method 300.0.

### 2.3 Field and Laboratory Analytical Results

On March 1, 2013, BGT closure field screening readings for VOCs via OVM ranged from 0.2 ppm in S-2 up to 1,205 ppm in S-5. Field TPH concentrations ranged from less than 20.0 mg/kg in S-1 to 1,430 mg/kg in S-5.

Lisa Hunter San Juan 28-7 #58A West BGT Closure, Release Assessment, and Final Excavation Report August 19, 2013 Page 4 of 7

On March 5, 2013, initial assessment field screening readings for VOCs via OVM ranged from 0.1 ppm in TH-5 up to 55.7 ppm in TH-1. Field TPH concentrations ranged from less than 20.0 mg/kg in TH-4 through TH-6 to 124 mg/kg in TH-1.

On June 18, 2013, final excavation field screening results for VOCs via OVM ranged from 2.1 ppm in SC-3 up to 2.5 ppm in SC-6 and SC-7. Field TPH concentrations ranged from 48.3 mg/kg in SC-6 to 82.7 mg/kg in SC-4. Field screening VOC and TPH results are summarized in Table 1 and on Figures 2 through 4. The AES field screening reports are attached.

Sample ID	Date Sampled	Sample Depth (ft)	VOCs OVM Reading (ppm)	Field TPH (mg/kg)
NMO	CD Action Level	*	100	100
S-1	3/1/13	0.5	6.1	<20.0
S-2	3/1/13	0.5	0.2	20.5
S-3	3/1/13	0.5	2.1	379
S-4	3/1/13	0.5	1.6	26.1
S-5	3/1/13	0.5	1,205	1,430
<b>T</b> U 4	2/5/42	10	55.7	124
14-1	3/5/13	12	4.6	<20.0
<b>TU 2</b>	2/5/42	5	1.2	28.9
TH-2	3/5/13	9	0.6	NA
		1.5	1.5	NA
TH-3	3/5/13	4.5	2.7	NA
		8	1.6	NA
<b>T</b> 11 4	2/5/42	4.5	0.5	<20.0
117-4	3/5/13	9	1.2	NA
	2/5/12	4	0.2	<20.0
18-2	3/5/13	9.5	0.1	NA
	2/5/12	4	0.5	NA
11-0	3/5/13	9	2.7	<20.0
SC-3	6/18/13	1 to 11	2.1	55.2

 Table 1. Soil Field Screening VOCs and TPH Results

San Juan 28-7 #58A West BGT Closure, Release Assessment, and Final Excavation Report March and June 2013 Lisa Hunter San Juan 28-7 #58A West BGT Closure, Release Assessment, and Final Excavation Report August 19, 2013 Page 5 of 7

Sample ID	Date Sampled	Sample Depth (ft)	VOCs OVM Reading (ppm)	Field TPH (mg/kg)
NMC	CD Action Level	*	100	100
SC-4	6/18/13	1 to 11	2.2	82.7
SC-5	6/18/13	1 to 11	2.3	74.4
SC-6	6/18/13	1 to 11	2.5	48.3
SC-7	6/18/13	11	2.5	49.7

NA - not analyzed

\*Action levels for BGT closure are determined by NMAC 19.15.17.13E; Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993).

Laboratory analytical results for SC-1 collected on March 1, 2013, showed the benzene concentration was below the laboratory detection limit of 0.25 mg/kg. The total BTEX concentration was 2.2 mg/kg. TPH concentrations (as GRO/DRO) were reported at 236 mg/kg. The chloride concentration was below the laboratory detection limit of 30 mg/kg.

Laboratory analytical results for SC-2 collected on March 4, 2013, from approximately 1.5 feet below the former BGT, had a benzene concentration reported below the laboratory detection limit of 0.12 mg/kg. The total BTEX concentration was 1.5 mg/kg. TPH concentrations (as GRO/DRO) were reported at 144 mg/kg. Laboratory analytical results are summarized in Table 2 and included on Figures 2 and 3. Laboratory analytical reports are attached.

		Ma	arch and Ju	ine 2013			
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH- GRO (mg/kg)	TPH- DRO (mg/kg)	Chlorides (mg/kg)
NMOCD	Action Level	*	0.2/10	50	10	00	250/NE
SC-1	3/1/13	0.5	<0.25	2.2	220	16	<30
SC-2	3/4/13	1.5	<0.12	1.5	110	34	<30

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, TPH, and Chlorides San Juan 28-7 #58A West BGT Closure, Release Assessment, and Final Excavation Report

NE – not established

\*Action levels for BGT closure are determined by NMAC 19.15.17.13E; Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993).

Lisa Hunter San Juan 28-7 #58A West BGT Closure, Release Assessment, and Final Excavation Report August 19, 2013 Page 6 of 7

### 3.0 Conclusions and Recommendations

NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13E. On March 1, 2013, field TPH concentrations exceeded the NMOCD action level of 100 mg/kg in two samples, S-3 (379 mg/kg) and S-5 (1,430 mg/kg). Laboratory analytical results for TPH (as GRO/DRO) in SC-1 and SC-2 were also reported above the NMOCD action level of 100 mg/kg with 236 mg/kg and 144 mg/kg, respectively. Benzene and total BTEX concentrations in SC-1 and SC-2 were below the NMOCD action levels of 0.2 mg/kg and 50 mg/kg, respectively. Chloride concentrations were reported below the NMOCD action level of 250 mg/kg. Based on field and laboratory analytical results, a release was confirmed at the location.

On March 5, 2013, AES conducted an initial assessment associated with a historical release discovered during BGT closure confirmation sampling. Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993), and the site was assigned a ranking of 30. Field screening results for VOCs via OVM were below the NMOCD action level of 100 ppm in each sample, with the highest concentration of 55.7 ppm reported in TH-1. Field TPH concentrations above the NMOCD action level of 100 mg/kg were reported in TH-1 (124 mg/kg).

On June 18, 2013, final assessment of the excavation area was completed. Field screening results of the excavation showed that concentrations of VOCs and TPH were below NMOCD action levels for each of the final four walls and base of the excavation. No further work is recommended for the San Juan 28-7 #58A west BGT release area.

If you have any questions about this report or site conditions, please do not hesitate to contact Deborah Watson at (505) 564-2281.

Sincerely,

Bandree R. Cupps

Landrea Cupps Environmental Scientist

Ulipobith V Mervely

Elizabeth McNally, P.E.

Lisa Hunter San Juan 28-7 #58A West BGT Closure, Release Assessment, and Final Excavation Report August 19, 2013 Page 7 of 7

#### Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, March 2013
Figure 3. Initial Assessment Sample Locations and Results, March 2013
Figure 4. Final Excavation Sample Locations and Results, June 2013
AES Field Screening Reports (030113, 030513, and 061813)
Hall Analytical Reports (1303031 and 1303112)

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LEGEND

SAMPLE LOCATIONS

	Field Scr	eening R	esults	
Sample ID	Date	OVM- PID (ppm)	TPH (mg/kg)	Chlorides (mg/kg)
NMOC	D ACTION LEVEL		100	250
S-1	3/1/13	6.1	<20.0	NA
S-2	3/1/13	0.2	20.5	NA
S-3	3/1/13	2.1	379	NA
S-4	3/1/13	1.6	26.1	NA
S-5	3/1/13	1,205	1,430	NA
SC-1 WEST TANK	3/1/13	NA	NA	NA

		Labo	ratory Ana	lytical Resu	ılts				
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	Chlorides (mg/kg)		
NMOCL	ACTION	EVEL	0.2	50	1(	00	250		
SC-1 WEST TANK	3/1/13	0.5	<0.25	2.2	220	16	<30		
SC-2	3/4/13	1.5	<0.12	1.5	110	34	<30		

SC-1 IS A 5-POINT COMPOSITE SAMPLE OF S-1 THROUGH S-5. NA - NOT ANALYZED



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Field Screening Results									
Sample ID	Date	Depth (ft)	OVM- PID (ppm)	TPH (mg/kg)					
NM	OCD ACTIO	ON LEVEL	100	100					
TU 1	2/E/12	10	55.7	124					
14-1	5/5/15	12	4.6	<20.0					
тц р	2/5/12	5	1.2	28.9					
10-2	5/5/15	9	0.6	NA					
		1.5	1.5	NA					
TH-3	3/5/13	4.5	2.7	NA					
		8	1.6	NA					
	2/5/12	4.5	0.5	<20.0					
111-4	5/5/15	9	1.2	NA					
тис	2/E/12	4	0.2	<20.0					
10-5	5/5/15	9.5	0.1	NA					
тц с	2/5/12	4	0.5	NA					
IH-6	5/5/15	9	2.7	<20.0					









-SAN JUAN 28-7 #58A WELL MONUMENT



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	Field Screening Results							
Sample ID	Date	Depth (ft)	OVM- PID (ppm)					
NM	NMOCD ACTION LEVEL 100							
SC-3	6/18/13	1 to 11	2.1					
SC-4	6/18/13	1 to 11	2.2					
SC-5	6/18/13	1 to 11	2.3					
SC-6	6/18/13	1 to 11	2.5					
SC-7	6/18/13	11	2.5					
ALL SAMPLES	WERE COM	1POSITE S	AMPLES.					

ТРН (mg/kg)

100

55.2

82.7 74.4 48.3 49.7



-SAN JUAN 28-7 #58A WELL MONUMENT

METER HOUSE





Animas Environmental Services, LLC

www.animasenvironmental.com

624 E. Comanche Farmington, NM 87401 505-564-2281

> Durango, Colorado 970-403-3084

Client: ConocoPhillips

Project Location: San Juan 28-7 #58A West Tank

Date: 3/1/2013

Matrix: Soil

**AES Field Screening Report** 

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	Field Chloride (mg/kg)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
S-1	3/1/2013	12:45	North	6.1	NA	14:16	<20.0	20.0	1	КС
S-2	3/1/2013	12:48	South	0.2	NA	14:24	20.5	20.0	1	КС
S-3	3/1/2013	12:51	East	2.1	NA	14:27	379	20.0	1	КС
S-4	3/1/2013	12:52	West	1.6	NA	14:30	26.1	20.0	1	КС
S-5	3/1/2013	12:55	Center	1,205	NA	14:34	1,430	20.0	1	КС

PQL Practical Quantitation Limit

Field Chloride - Quantab Chloride Titrators or Drop Count Titration with Silver Nitrate

ND Not Detected at the Reporting Limit

NA Not Analyzed

DF Dilution Factor

\*Field TPH concentrations recorded may be below PQL.

Analyst:

Total Petroleum Hydrocarbons - USEPA 418.1

Lelang Christian

## **AES Field Screening Report**

### Client: ConocoPhillips

Project Location: San Juan 28-7 #58A West Tank

#### Date: 3/5/2013

Matrix: Soil



Animas Environmental Services, LLC

www.animasenvironmental.com

624 E. Comanche Farmington, NM 87401 505-564-2281

> Durango, Colorado 970-403-3084

	Collection	Collection	OVM	Time of Sample	Field TPH*	TPH PQL		TPH Analysts		
Sample ID	Date	Time	(ppm)	Analysis	(mg/kg)	(mg/kg)	DF	Initials		
TH-1 @ 10'	3/5/2013	11:18	55.7	12:16	124	20.0	1	HMW		
TH-1 @ 12'	3/5/2013	11:21	4.6	12:13	<20.0	20.0	1	HMW		
TH-2 @ 5'	3/5/2013	11:25	1.2	12:43	28.9	20.0	1	HMW		
TH-2 @ 9'	3/5/2013	11:27	0.6	Not Analyzed for TPH						
TH-3 @ 1.5'	3/5/2013	11:33	1.5	Not Analyzed for TPH						
TH-3 @ 4.5'	3/5/2013	11:35	2.7		Not A	nalyzed for T	ΡΗ			
TH-3 @ 8'	3/5/2013	11:40	1.6		Not A	nalyzed for T	РН			
TH-4 @ 4.5'	3/5/2013	11:42	0.5	12:46	<20.0	20.0	1	HMW		
TH-4 @ 9'	3/5/2013	11:45	1.2		Not A	nalyzed for T	ЪΗ			
TH-5 @ 4'	3/5/2013	11:47	0.2	12:48	<20.0	20.0	1	HMW		
TH-5 @ 9.5'	3/5/2013	11:48	0.1		Not A	nalyzed for T	ЪΗ			
TH-6 @ 4'	3/5/2013	11:51	0.5		Not A	nalyzed for T	РН			
TH-6 @ 9'	3/5/2013	11:53	2.7	12:50	<20.0	20.0	1	HMW		

Total Petroleum Hydrocarbons - USEPA 418.1

- PQL Practical Quantitation Limit
- ND Not Detected at the Reporting Limit
- DF Dilution Factor
- NA Not Analyzed

Analyst:

Aleather M. Woods

## AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

624 E. Comanche Farmington, NM 87401 505-564-2281

> Durango, Colorado 970-403-3084

Client: ConocoPhillips

Project Location: San Juan 28-7 #58A West Tank

#### Date: 6/18/2013

Matrix: Soil

		Time of			Field TPH	Field			TPH
	Collection	Sample	Sample	OVM	Analysis	TPH*	TPH PQL		Analysts
Sample ID	Date	Collection	Location	(ppm)	Time	(mg/kg)	(mg/kg)	DF	Initials
SC-3	6/18/2013	8:37	South Wall	2.1	9:18	55.2	20.0	1	HMW
SC-4	6/18/2013	8:39	North Wall	2.2	9:21	82.7	20.0	1	HMW
SC-5	6/18/2013	8:41	West Wall	2.3	9:23	74.4	20.0	1	HMW
SC-6	6/18/2013	8:43	East Wall	2.5	9:26	48.3	20.0	1	HMW
SC-7	6/18/2013	8:45	Base	2.5	9:29	49.7	20.0	1	HMW

- PQL Practical Quantitation Limit
- ND Not Detected at the Reporting Limit
- NA Not Analyzed
- DF Dilution Factor

Total Petroleum Hydrocarbons - USEPA 418.1 \*Field TPH concentrations recorded may be below PQL.

Analyst:

Aleather M. Woods

HALL ENVIRONMENTAL ANALYSIS LABORATORY

April 12, 2013

Debbie Watson Animas Environmental Services 624 East Comanche Farmington, NM 87401 TEL: (505) 486-4071 FAX

RE: San Juan 28-7 #58A

OrderNo.: 1303031

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/2/2013 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued March 05, 2013.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Lab ID:

of 5

**Analytical Report** 

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 1303031

Date Reported: 4/12/2013

**CLIENT:** Animas Environmental Services **Project:** San Juan 28-7 #58A

1303031-002

Client Sample ID: SC-2 West Tank SC-1 West Tank -Irc Collection Date: 3/1/2013 1:26:00 PM

Matrix: MEOH (SOIL) Received Date: 3/2/2013 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANG	E ORGANICS					Analyst: MMD
Diesel Range Organics (DRO)	16	10		mg/Kg	1	3/4/2013 6:27:05 PM
Surr: DNOP	101	72.4-120		%REC	1	3/4/2013 6:27:05 PM
EPA METHOD 8015D: GASOLINE RA	ANGE					Analyst: NSB
Gasoline Range Organics (GRO)	220	25		mg/Kg	5	3/4/2013 11:48:18 AM
Surr: BFB	301	84-116	S	%REC	5	3/4/2013 11:48:18 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.25		mg/Kg	5	3/4/2013 11:48:18 AM
Toluene	ND	0.25		mg/Kg	5	3/4/2013 11:48:18 AM
Ethylbenzene	ND	0.25		mg/Kg	5	3/4/2013 11:48:18 AM
Xylenes, Total	2.2	0.50		mg/Kg	5	3/4/2013 11:48:18 AM
Surr: 4-Bromofluorobenzene	118	80-120		%REC	5	3/4/2013 11:48:18 AM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Chloride	ND	30		mg/Kg	20	3/4/2013 10:52:41 AM

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	Е	Value above quantitation range	Н	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	Р	Sample pH greater than 2	R	RPD outside accepted recovery limits
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Client: Project:	Animas E San Juan	Environmenta 28-7 #58A	l Ser	vices							
	Suitsuut	20 / #2011									
Sample ID	MB-6301	SampTyp	e: Me	BLK	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch ID	): <b>63</b>	01	F	unNo: 8	941				
Prep Date:	3/4/2013	Analysis Date	e: 3/	4/2013	S	eqNo: 2	55320	Units: mg/K	g		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-6301	SampTyp	e: LC	s	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch ID	Batch ID: 6301 RunNo: 8941								
Prep Date:	3/4/2013	Analysis Date	nalysis Date: 3/4/2013 SeqNo: 255321 Units: mg/Kg								
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		15	1.5	15.00	0	102	90	110			
Sample ID	1303031-001BMS	SampTyp	e: M\$	6	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	SC-1 East Tank	Batch ID	): <b>63</b>	01	F	unNo: 8	941				
Prep Date:	3/4/2013	Analysis Date	e: 3/	4/2013	S	eqNo: 2	55323	Units: mg/K	g		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		93	30	15.00	85.25	51.0	64.4	117			S
Sample ID	1303031-001BMS	D SampTyp	e: MS	SD	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	SC-1 East Tank	Batch ID	): <b>63</b>	01	F	unNo: 8	941				
Prep Date:	3/4/2013	Analysis Date	e: 3/	4/2013	S	eqNo: 2	55324	Units: mg/K	g		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		100	30	15.00	85.25	113	64.4	117	9.56	20	

#### **Oualifiers:**

- Value exceeds Maximum Contaminant Level. \*
- Е Value above quantitation range
- Analyte detected below quantitation limits J
- Р Sample pH greater than 2
- Reporting Detection Limit RL

- Analyte detected in the associated Method Blank В
- Н
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

1303031

12-Apr-13

WO#:

#### Holding times for preparation or analysis exceeded

Client:	Animas E	Environme	ntal Sei	rvices							
Project:	San Juan	28-7 #58A	A								
Sample ID	MB-6300	SampT	уре: М	BLK	Tes	tCode: El	PA Method	8015D: Dies	el Range (	Organics	
Client ID:	PBS	Batch	n ID: 63	800	F	RunNo: 8	953				
Prep Date:	3/4/2013	Analysis D	ate: 3	/4/2013	S	SeqNo: 2	55779	Units: mg/k	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	ND	10								
Surr: DNOP		9.9		10.00		99.0	72.4	120			
Sample ID	LCS-6300	SampT	ype: LC	CS	Tes	tCode: El	PA Method	8015D: Dies	el Range (	Organics	
Client ID:	LCSS	CSS         Batch ID:         6300         RunNo:         8953									
Prep Date:	3/4/2013	Analysis D	ate: 3	/4/2013	5	SeqNo: 2	55781	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	53	10	50.00	0	106	47.4	122			
Surr: DNOP		5.5		5.000		110	72.4	120			
Sample ID	1303034-001AMS	SampT	ype: M	s	Tes	tCode: El	PA Method	8015D: Dies	el Range (	Organics	
Client ID:	BatchQC	Batch	n ID: 63	00	F	RunNo: <b>8</b> 9	961				
Prep Date:	3/4/2013	Analysis D	ate: 3	/6/2013	8	SeqNo: 2	57200	Units: mg/h	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	46	9.7	48.59	0	94.4	12.6	148			
Surr: DNOP		5.2		4.859		108	72.4	120			
Sample ID	1303034-001AMSI	<b>)</b> SampT	ype: M	SD	Tes	tCode: El	PA Method	8015D: Dies	el Range (	Organics	
Client ID:	BatchQC	Batch	n ID: 63	00	F	RunNo: <b>8</b> 9	961				
Prep Date:	3/4/2013	Analysis D	ate: 3	/6/2013	S	SeqNo: 2	57201	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	45	10	50.81	0	88.7	12.6	148	1.82	22.5	
Surr: DNOP		5.5		5.081		108	72.4	120	0	0	

#### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits
  - S Spike Recovery outside accepted recovery limits

1303031

12-Apr-13

WO#:
Client: Project:	Animas Er San Juan 2	vironmer 8-7 #58A	ntal Sei	rvices							
Sample ID MB-	6293	SampT	уре: М	BLK	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	e	
Client ID: PBS	5	Batch	n ID: R8	3939	F	RunNo: 8	939				
Prep Date: 3/1	/2013	Analysis D	ate: 3	/4/2013	S	SeqNo: 2	55803	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Orga Surr: BFB	anics (GRO)	ND 1100	5.0	1000		109	84	116			
Sample ID LCS	-6293	SampT	ype: LC	cs	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	е	
Client ID: LCS	S	Batch	n ID: R8	3939	F	RunNo: 8	939				
Prep Date: 3/1	/2013	Analysis D	ate: 3	/4/2013	S	SeqNo: 2	55804	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Orga	anics (GRO)	32	5.0	25.00	0	129	62.6	136			
Surr: BFB		1300		1000		133	84	116			S

#### **Oualifiers:**

- Value exceeds Maximum Contaminant Level. \*
- Е Value above quantitation range
- Analyte detected below quantitation limits J
- Р Sample pH greater than 2
- Reporting Detection Limit RL

- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
  - Spike Recovery outside accepted recovery limits

1303031

12-Apr-13

WO#:

Client: Project:	Animas Environme San Juan 28-7 #58.	ental Ser A	vices							
Sample ID MB-629	3 Samp	Туре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Bato	h ID: <b>R8</b>	939	F	RunNo: 8	939				
Prep Date: 3/1/201	Analysis I	Date: 3/	4/2013	S	SeqNo: 2	55857	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluoroben	izene 1.1		1.000		107	80	120			
Sample ID LCS-629	<b>33</b> Samp	Type: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Bato	h ID: <b>R8</b>	939	F	RunNo: 8	939				
Prep Date: 3/1/201	Analysis I	Date: 3/	4/2013	S	SeqNo: 2	55858	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.050	1.000	0	89.2	80	120			
Toluene	0.89	0.050	1.000	0	88.9	80	120			
Ethylbenzene	0.89	0.050	1.000	0	89.0	80	120			
Xylenes, Total	2.7	0.10	3.000	0	88.5	80	120			
Surr: 4-Bromofluoroben	zene 1.1		1.000		112	80	120			

#### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits
  - S Spike Recovery outside accepted recovery limits

WO#:	1303031
	12-Apr-13

Page 5 of 5

ENVIRONMENTAL ANALYSIS LABORATORY TEL: 50 Webs	4901 Hawkins NE Albuquerque, NM 87105 05-345-3975 FAX: 505-345-410; itte: www.hallenvironmental.con	ist
nt Name: Animas Environmental	Work Order Number: 1303031	
ged By: Lindsay Mangin 3/2/2013 12		
npleted By: Lindsay Mangin 3/4/2013 8:0		
iewed By:	-	
in of Custody	<u> </u>	j
Were seals intact?	Yes 🔲 No 🗌 Not Present 🗹	
Is Chain of Custody complete?	Yes 🗹 No 🗋 Not Present	
How was the sample delivered?	Courier	
<u>In</u>		
Coolers are present? (see 19. for cooler specific informat	tion) Yes 🗹 No 🗌 NA 🗌	
Was an attempt made to cool the samples?	Yes 🗹 No 🗌 🛛 NA 🗌	
Were all samples received at a temperature of >0° C to (	5.0°C Yes 🗹 No 🗌 NA 🗌	
Sample(s) in proper container(s)?	Yes 🔽 No 🗌	
Sufficient sample volume for indicated test(s)?	Yes 🔽 No 🗌	
Are samples (except VOA and ONG) properly preserved?	Yes 🗹 No 🗌	
Was preservative added to bottles?	Yes 🗌 No 🗹 🛛 NA 🗌	-
VOA vials have zero headspace?		
Were any sample containers received broken?		
Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑ No □ # of preserved bottles checked	
Are matrices correctly identified on Chain of Custody?	Yes ✔ No	ted)
is it clear what analyses were requested?	Yes ☑ No	-
Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹 No 🗋	
cial Handling (if applicable)		
Was client notified of all discrepancies with this order?	Yes 🗌 No 🔲 🛛 NA 🗹	
Person Notified	Data	
By Whom:		
Regarding:		
Client Instructions:		
Additional action data		
Additional remarks:		
Cooler Information		
Cooler No Temp ºC Condition Seal Intact Se	al No Seal Date Signed By	
Cooler Information Cooler No Temp ⁰C Condition Seal Intact Se 1 3.9 Good Yes	al No Seal Date Signed By	

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Page 1 of 1

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

March 06, 2013

Debbie Watson Animas Environmental Services 624 East Comanche Farmington, NM 87401 TEL: (505) 486-4071 FAX

RE: CoP San Juan 28-7 #58A West Tank

OrderNo.: 1303112

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/5/2013 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 <u>www.hallenvironmental.com</u> or the state specific web sites. 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. 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.

Sincerely,

ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report
Lab Order 1303112

### Hall Environmental Analysis Laboratory, Inc.

Lab Order **1303112** Date Reported: **3/6/2013** 

CLIENT: Animas Environmental ServicesProject:CoP San Juan 28-7 #58A West TankLab ID:1303112-001Matrix: MEOH (SOIL)

Client Sample ID: SC-1 SC-2 -lrc Collection Date: 3/4/2013 11:50:00 AM

Received Date: 3/5/2013 9:55:00 AM

Analyses	Result	<b>RL</b> Qual Units		Inits	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS					Analyst: MMD
Diesel Range Organics (DRO)	34	10	r	ng/Kg	1	3/5/2013 1:12:38 PM
Surr: DNOP	103	72.4-120	Q	%REC	1	3/5/2013 1:12:38 PM
EPA METHOD 8015B: GASOLINE R	ANGE					Analyst: NSB
Gasoline Range Organics (GRO)	110	25	r	ng/Kg	5	3/5/2013 2:16:58 PM
Surr: BFB	316	84-116	S 9	%REC	5	3/5/2013 2:16:58 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.12	r	mg/Kg	5	3/5/2013 2:16:58 PM
Toluene	ND	0.25	r	ng/Kg	5	3/5/2013 2:16:58 PM
Ethylbenzene	ND	0.25	r	ng/Kg	5	3/5/2013 2:16:58 PM
Xylenes, Total	1.5	0.50	r	ng/Kg	5	3/5/2013 2:16:58 PM
Surr: 4-Bromofluorobenzene	117	80-120	0	%REC	5	3/5/2013 2:16:58 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Chloride	ND	30	r	mg/Kg	20	3/5/2013 11:32:57 AM

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	Е	Value above quantitation range	Н	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	Р	Sample pH greater than 2	R	RPD outside accepted recovery limits
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Client:	Animas E	Invironment	al Ser	vices							
Project:	CoP San	Juan 28-7 #5	58A V	West Tank							
Sample ID	MB-6328	SampTyp	e: MI	BLK	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch I	D: 63	28	F	RunNo: 8	986				
Prep Date:	3/5/2013	Analysis Dat	e: 3/	/5/2013	5	SeqNo: 2	56634	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chionae		ND	1.5								
Sample ID	LCS-6328	SampTyp	e: LC	s	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch I	D: 63	28	F	RunNo: <b>8</b>	986				
Prep Date:	3/5/2013	Analysis Dat	e: 3/	/5/2013	S	SeqNo: 2	56635	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		16	1.5	15.00	0	104	90	110			
Sample ID	1303064-001AMS	SampTyp	e: MS	S	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	BatchQC	Batch I	D: 63	28	F	RunNo: 8	986				
Prep Date:	3/5/2013	Analysis Dat	e: 3/	/5/2013	S	SeqNo: 2	56638	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		17	7.5	15.00	4.634	83.5	64.4	117			
Sample ID	1303064-001AMSI	<b>)</b> SampTyp	e: M	SD	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	BatchQC	Batch I	D: 63	28	F	RunNo: 8	986				
Prep Date:	3/5/2013	Analysis Dat	e: 3/	/5/2013	S	SeqNo: 2	56639	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		18	7.5	15.00	4.634	92.2	64.4	117	7.31	20	

#### **Qualifiers:**

\* Value exceeds Maximum Contaminant Level.

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits

1303112

06-Mar-13

WO#:

### Released to Imaging: 1/10/2022 1:23:47 PM

Client: Animas Project: CoP Sar	Environmental S	Services A West Tank								
Sample ID MB-6302	SampType:	MBLK	Tes	tCode: EP	A Method	8015B: Gaso	oline Rang	e		_
Client ID: PBS	Batch ID:	R8966	F	RunNo: 8966						
Prep Date: 3/4/2013	Analysis Date:	3/5/2013	S	eqNo: 25	6484	Units: mg/H	(g			
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO) Surr: BFB	ND 5 1100	5.0 1000		108	84	116				
Sample ID LCS-6302	SampType:	LCS	Tes	tCode: EP	A Method	8015B: Gasc	line Rang	e		
Client ID: LCSS	Batch ID:	R8966	F	RunNo: <b>89</b>	66					
Prep Date: 3/4/2013	Analysis Date:	3/5/2013	S	eqNo: 25	6485	Units: mg/H	(g			
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	28	5.0 25.00	0	111	62.6	136				
Surr: BFB	1200	1000		120	84	116			S	

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits

1303112

06-Mar-13

WO#:

### **Released to Imaging: 1/10/2022 1:23:47 PM**

Client:AProject:C	nimas Environme oP San Juan 28-7	ental Ser 7 #58A V	vices Vest Tank							
Sample ID MB-6302	Samp	Туре: М	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Bato	h ID: <b>R8</b>	966	F	RunNo: 8	966				
Prep Date: 3/4/2013	Analysis I	Date: 3/	5/2013	S	SeqNo: 2	56514	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenze	ne 1.1		1.000		107	80	120			
Sample ID LCS-6302	Samp	Type: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Bato	h ID: <b>R8</b>	966	F	RunNo: 8	966				
Prep Date: 3/4/2013	Analysis I	Date: 3/	5/2013	5	SeqNo: 2	56515	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.050	1.000	0	93.3	80	120			
Toluene	0.92	0.050	1.000	0	92.1	80	120			
Ethylbenzene	0.92	0.050	1.000	0	91.5	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.4	80	120			
Surr: 4-Bromofluorobenze	ne 1.1		1.000		110	80	120			

#### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits

Page 81 of 85

1303112

06-Mar-13

WO#:

Received by OCD:	10/15/2021	9:20:16 AM
ENVIRG	ONMENTAI	-

ANALYSIS

LABORATORY

Page	82	0	f 85

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4901 Hawkins N	5 -
Albuquerque, NM 8710	ç
TEL: 505-345-3975 FAX: 505-345-410	; .
Website: www.hallenvironmental.com	,

Sample Log-In Check List

Clie	nt Name:	Animas Environmental		/ork Oi	der	Num	ber:	 1303	112	
Rec	eived by/date	e: <u> </u>	03/05/13							
Log	ged By:	Michelle Garcia	7 3/5/2013 9:55:00 AM				-m	inu (	pruie>	
Con	npleted By:	Michelle Garcia	3/5/2013 10:09:15 AM				-m	inu (	prue>	N.
Rev	iewed By:	to	03/05/13						•	
<u>Cha</u>	in of Cus	tody	//							
1.	Were seals	intact?		Yes		No		N	ot Present 🗹	
2.	Is Chain of (	Custody complete?		Yes	✓	No		N	ot Present 🗌	
3.	How was the	e sample delivered?		<u>Cou</u>	rier					
Log	<u>In</u>									
4.	Coolers are	present? (see 19. for coo	er specific information)	Yes	$\checkmark$	No			NA 🗌	
5.	Was an atte	empt made to cool the sar	nples?	Yes	✓	No				
6.	Were all sar	mples received at a tempe	erature of >0° C to 6.0°C	Yes	✓	No				
7.	Sample(s) ir	n proper container(s)?		Yes	$\checkmark$	No				
8.	Sufficient sa	ample volume for indicate	d test(s)?	Yes	✓	No				
9.	Are samples	s (except VOA and ONG)	properly preserved?	Yes	✓	No	$\Box$			
10.	Was presen	vative added to bottles?		Yes		No	$\checkmark$		NA 🗀	
<b>1</b> 1.	VOA vials h	ave zero headspace?		Yes		No		No	VOA Vials 🗹	
12.	Were any sa	ample containers received	broken?	Yes		No	✓			
13.	Does papers (Note discre	work match bottle labels? pancies on chain of custo	ody)	Yes	✓	No			# of preserved bottles checked for pH:	
14.	Are matrices	s correctly identified on Cl	hain of Custody?	Yes	✓	No			(<2 or	>12 unless noted)
15.	Is it clear wh	nat analyses were request	ted?	Yes	✓	No			Adjusted?	
16.	Were all hole	ding times able to be met	?	Yes	✓	No				
<b>C</b>			n.)						Checked by:	
<u>5pe</u>	Was client n	<u>IIII (IT applicable)</u>	s with this order?	Vos	<b>[</b> ]	No				
17.	Dereon	Notified	Dete:							
	By Wh	om:	Via' [	AMa	ii 🗆	PI	hone		ay 🗌 In Person	
	Regard	dina:								
	Client I	Instructions:								
18.	Additional re	emarks:								1
19.	Cooler Info	rmation								

 Cooler No
 Temp °C
 Condition
 Seal Intact
 Seal No
 Seal Date
 Signed By

 1
 1.0
 Good
 Yes
 Image: Signed By
 Image: Signe: Signed By
 Image: Signed By

Page 1 of 1

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SJ 28-7 Unit 58A 3003923983 West BGT Closure

Historic BGT Closure Document clean-up. West BGT was closed 3/1/2013 but C-144 Closure document was never filed. Below is a current aerial shot of the BGT location. Location currently has a AGT.



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:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	56261
	Action Type:
	[C-144] Below Grade Tank Plan (C-144B)

#### CONDITIONS

Created By	Condition	Condition Date
cwhitehead	None	1/10/2022

Page 85 of 85

Action 56261