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 Page 1 of 221

Form C-144 Revised April 3, 2017

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> <u>Proposed Alternative Method Permit or Closure Plan Application</u>

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.

I. Operator: Hilcorp Energy Company OGRID #: 372171 Address: 382 Road 3100 Aztec, NM 87410 Facility or well name: SALTY DOG SWD 1 API Number: 30-045-29946 OCD Permit Number:		
U/L or Qtr/Qtr <u>B</u> Section 01 Township 29N Range 15W County: San Juan		
Center of Proposed Design: Latitude <u>36.76018</u> Longitude <u>-108.36444</u> NAD83		
Surface Owner: Federal State Private Tribal Trust or Indian Allotment		
□ <u>Pit:</u> 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>47</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 🖾 OtherUnspecified		
 4. Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. 		
 5. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet 		
Alternate. Please specify		

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:

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

Please check a box if one or more of the following is requested, if not leave blank:

Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.

Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

^{9.} <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	
<u>Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.</u> - □ NM Office of the State Engineer - iWATERS database search; □ USGS; □ Data obtained from nearby wells	□ Yes □ No ⊠ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ⊠ NA
 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) Written confirmation or verification from the municipality; Written approval obtained from the municipality 	🗌 Yes 🗌 No
 Within the area overlying a subsurface mine. (Does not apply to below grade tanks) Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	🗌 Yes 🗌 No
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	🗌 Yes 🗌 No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	🗌 Yes 🗌 No
Below Grade Tanks	
 Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🛛 No
 Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yes 🛛 No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
 Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	🗌 Yes 🗌 No
 Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No

Received by OCD: 12/26/2024 10:28:59 AM	Page 3 of 22	
 Within 100 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No	
Temporary Pit Non-low chloride drilling fluid		
 Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No	
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 Yes 🗌 No	
 Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No	
 Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No	
Permanent Pit or Multi-Well Fluid Management Pit		
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa		
 lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No	
 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 Yes 🗌 No	
 Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No	
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No	
10. Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC <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 attached.</i> Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: or Permit Number: 		
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC 		
Previously Approved Design (attach copy of design) API Number: or Permit Number:		

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12. Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the 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 Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Muisance or Hazardous Odors, including H2S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC	documents are	
13. <u>Proposed Closure</u> : 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 F	luid Management Pit	
Alternative Proposed Closure Method: 🛛 Waste Excavation and Removal		
Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems)		
In-place Burial On-site Trench Burial		
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.		
15. Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC		
Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. F 19.15.17.10 NMAC for guidance.		
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA	
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ Yes □ No □ NA	
 Ground water is more than 100 feet below the bottom of the buried waste. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 	□ Yes □ No □ NA	
 Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No	
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 Yes 🗌 No	
 Within 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 	🗌 Yes 🗌 No	
Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗌 Yes 🗌 No	
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance		
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adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗌 Yes 🗌 No		
 Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	🗌 Yes 🗌 No		
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 			
Within a 100-year floodplain. - FEMA map	☐ Yes ☐ No ☐ 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.			
 17. Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and believed and b			
Name (Print): ci			
Signature: Date: e-mail address: Telephone:			
18. OCD Approval: Dermit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)			
OCD Representative Signature: Approval Date: 12/26	/2024		
Title: Environmental Specialist A OCD Permit Number: BGT1			
19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed. Image: Closure Completion Date: 7/23/2024			
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.	dicate, by a check		

On-site Closure Location: Latitude

Longitude

NAD: 1927 1983

22. Operator Closure Certification:			
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.			
Name (Print):	Priscilla Shorty	Title:	Operations/Regulatory Technician – Sr
Signature:	<u>Príscilla Shorty</u>	Date:	12/26/2024
e-mail address:	pshorty@hilcorp.com	Telephone:	(505) 324-5188

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Hilcorp Energy Company

BGT Modification

Hilcorp Energy Company is requesting to modify the below grade permit for the Salty Dog SWD 1 (30.045.22946) as follows:

• The previous closure plan included Table I of 19.15.17.13 showing estimated water depth to be less than 50 ft. During closure, it was found that the water depth was estimated to be greater than 51 feet. The modified table is included showing an update to the depth. Also, attached is the Analytical Report providing an interpretation of the water depth.

Hilcorp Energy Company San Juan Basin: New Mexico Assets Below Grade Tank Closure Report

Lease Name: SALTY DOG SWD 1 API No.: 30-045-29946

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 Requirements:

1. Prior to initiating any BGT closure, except in the case of an emergency, HILCORP will notify the surface owner of the intent to close the BGT by certified mail no later than 72 hours or one week before closure and a copy of this notification will be included in the closure report. In the case of an emergency, the surface owner will be notified as soon as practical.

The surface owner was notified by email of the closure process and the notification is attached.

- 2. Notice of closure will be given to the District Division office between 72 hours and one week of the scheduled closure via email or phone. The notification of closure will include the following:
 - a. Operators Name
 - b. Well Name and API Number
 - c. Location

Notification is attached.

3. All liquids will be removed from the BGT following cessation of operation. Produced water will be disposed of at one of HILCORP's approved Salt Water Disposal facilities or at a District Division approved facility.

All recovered liquids were disposed of at an approved SWD facility or an approved District Division facility within 60 days of cessation of operation.

 Solids and sludge's will be shoveled and/or vacuumed out for disposal at one of the District Division approved facilities, depending on the proximity of the BGT site: Envirotech Land Farm (Permit #NM-01-011), JFJ Land Farm % Industrial Ecosystems Inc. (Permit #NM-01-0010B), and Basin Disposal (Permit #NM-01-005).

Any sludge or soil required to be removed to facilitate closure was transported to Envirotech Land Farm (Permit # NM-01-011) and/or JFJ Landfarm % IEI (Permit# NM-01-0010B).

5. HILCORP will obtain prior approval from District Division to dispose, recycle, reuse, or reclaim the BGT and provide documentation of the disposition of the BGT in the closure report. Steel materials will be recycled or reused as approved by the District Division. Fiberglass tanks will be empty, cut up or shredded, and EPA cleaned for disposal as solid waste. Liner materials will be cleaned without soils or contaminated material for disposal as solid waste. Fiberglass tanks and liner materials will meet the conditions of 19.15.35 NMAC. Disposal will be at a licensed disposal facility, presently San Juan County Landfill operated by Waste Management under NMED Permit SWM-052426.

The below-grade tank was disposed of in a division-approved manner. The liner was cleaned per 19.15.35.8.C(1)(m) NMAC and disposed of at the San Juan County Regional Landfill located on CR 3100.

6. Any equipment associated with the BGT that is no longer required for some other purpose, following the closure, will be removed.

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

- 7. Following removal of the tank and any liner material, HILCORP will test the soils beneath the BGT as follows:
 - a. At a minimum, a five-point composite sample will be taken to include any obvious stained or wet soils or any other evidence of contamination.
 - b. The laboratory sample shall be analyzed for the constituents listed in Table I of 19.15.17.13.

A five point composite sample was taken of the below-grade tank using sampling tools and all samples tested per Table I of 19.15.17.13 and the results are attached.

8. If the District Division and/or HILCORP determine there is a release, HILCORP will comply with 19.15.17.13.C.3b.

A release was determined for the above referenced well.

9. Upon completion of the tank removal, pursuant to 19.15.17.13.C.3c, if all contaminant concentrations are less than or equal to the parameters listed in Table I of 19.15.17.13 NMAC, the excavation will be backfilled with non-waste earthen material compacted and covered with a minimum of one foot top soil or background thickness whichever is greater and to existing grade. The surface will be re-contoured to match the native grade and to prevent ponding.

Historical release was discovered during the permanent removal of the BGT. The release was reported on a Form C-141 on 10/29/2024, nAPP2430352742. Hilcorp will work with NMOCD's Incident group to clean-up the site and conduct remediation activities. Below is the modified Table I to reflect the findings, see attached.

Table I				
Closure Criteria for Soils Benea	Closure Criteria for Soils Beneath Below-Grade Tanks, Drying Pads Associated with Closed-Loop Systems and Pits			
	where C	ontents are Removed		
Depth below bottom of pit to	Constituent	Method*	Limit**	
groundwater less than 10,000				
mg/I TDS				
	Chloride	EPA 300.0	600 mg/kg	
≤50 feet	TPH	EPA SW-846 Method 418.1	100 mg/kg	
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg	
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg	
	Chloride	EPA 300.0	10,000 mg/kg	
51 feet-100 feet	TPH	EPA SW-846 Method 418.1	2,500 mg/kg	
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg	
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg	
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg	
	Chloride	EPA 300.0	20,000 mg/kg	
> 100 feet	TPH	EPA SW-846 Method 418.1	2,500 mg/kg	
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg	
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg	
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg	

10. For those portions of the former BGT area no longer required for production activities, HILCORP will seed the disturbed area the first favorable growing season after the BGT is covered. Seeding will be accomplished via drilling on the contour whenever practical, or by other District Division-approved methods. HILCORP will notify the District Division when reclamation and re-vegetation is complete.

Reclamation of the BGT shall be considered complete when:

- Vegetative cover reflects a life form ratio of +/- 50% of pre disturbance levels.
- Total percent plant cover of at least 70% of pre-disturbance levels (Excluding noxious weeds) OR
- Pursuant to 19.15.17.13.H.5d HILCORP will comply with obligations imposed by other applicable federal or tribal agencies in which there re-vegetation and reclamation requirements provide equal or better protection of fresh water, human health and the environment.

Provision 10 will be accomplished pursuant to 19.15.17.H.5d and notification will be submitted upon completion.

11. For those portions of the former BGT area required for production activities, reseeding will be done at well abandonment, and following the procedure noted above.

The former BGT area is required for production activities and reseeding will be completed upon plug and abandonment, per the procedure noted above.

Closure Report:

All closure activities will include proper documentation and will be submitted to OCD within 60 days of the BGT closure on a Closure Report using District Division Form C-144. The Report will include the following:

- Proof of Closure Notice (surface owner and District Division) (Attached)
- Backfilling & cover installation (See Report)
- Confirmation Sampling Analytical Results (Attached)
- Application Rate & Seeding techniques (See Report)
- Photo Documentation of Reclamation (Attached)

Priscilla Shorty

Priscilla Shorty
Thursday, July 18, 2024 9:58 AM
Chad Perkins; Dale Crawford; Mitch Killough; Brandon Sinclair; Ben Mitchell; Ramon
Hancock; Lisa Jones; Victoria Venegas (Victoria.Venegas@emnrd.nm.gov); Farmington
Regulatory Techs; Samantha Grabert; Kate Kaufman; Alex Rios; Christopher Bramwell;
Ray Shelby; Tammy Jones; Max Lopez; joel.stone@emnrd.nm.gov; Abiodun Adeloye
72 Hour BGT Closure Notification – SALTY DOG SWD 1 (30.045.29946)
SALTY DOG SWD 1_BGT CP ONLY_OCD Appvd.pdf

Subject: 72 Hour BGT Closure Notification

Anticipated Start Date: Tuesday, July 23, 2024 at 9:00 AM

The subject well has a below-grade tank that will be permanently removed. The BGT Closure Plan is attached. Please contact me if you have any questions or concerns.

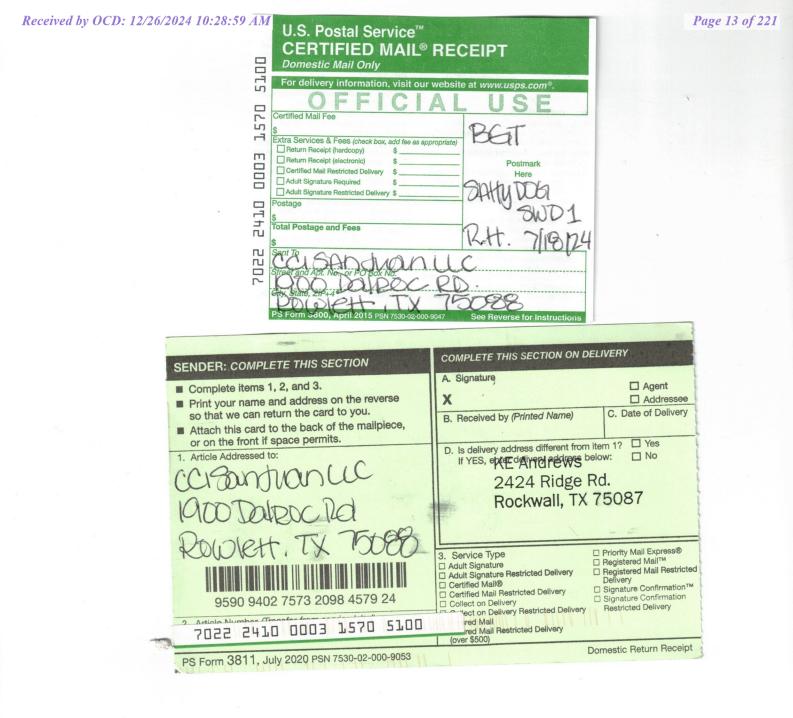
Reason:	SWD was P&A'd	
Operator:	Hilcorp Energy	Surface Owner: PRIVATE
Footages:	1200' FNL & 1380' FEL	
Location:	Unit B (NW/NE), Section	n 01, T29N, R15W
API#:	30-045-29946	
Well Name:	SALTY DOG SWD 1	

Please Note Required Photos for Closure

- Well site placard
- Photos of the BGT prior to closure
- The sample location or, more preferred, photos of actual sample collection
- Final state of the area after closure.
- Photos will require captioning including direction of photo, date and time of photo and a description of the image contents.

Thanks,

Priscilla Shorty Operations Regulatory Technician Hilcorp Energy Company 505-324-5188 pshorty@hilcorp.com



ostal Service CERTIFIED MAIL® RECEIPage 14 of 221 Received by OCD: 12/26/2024 10:28:59 AM 5100 Domestic Mail Only 27 Hilcorp 570 Certified Mail Fee 5 F F xtra Services & Fees (check box, add fee as appropria Return Receipt (hardcopy) m m Return Receipt (electronic) Postmark Certified Mail Restricted Delivery Here Adult Signature Required Adult Signature Restricted Deliv 2410 ostage July 18, 2024 2471 Total Postage and Fees **Transmitted Via** 7022 7022 Certified Mail 7022 2410 0003 To: CCI San Juan LLC 1900 Dalroc Rd.

Re: SALTY DOG SWD 1 API: 30-045-29946 Unit B (NW/NE) Section 1, T29N, R15W San Juan County, New Mexico

Rowlett, TX 75088

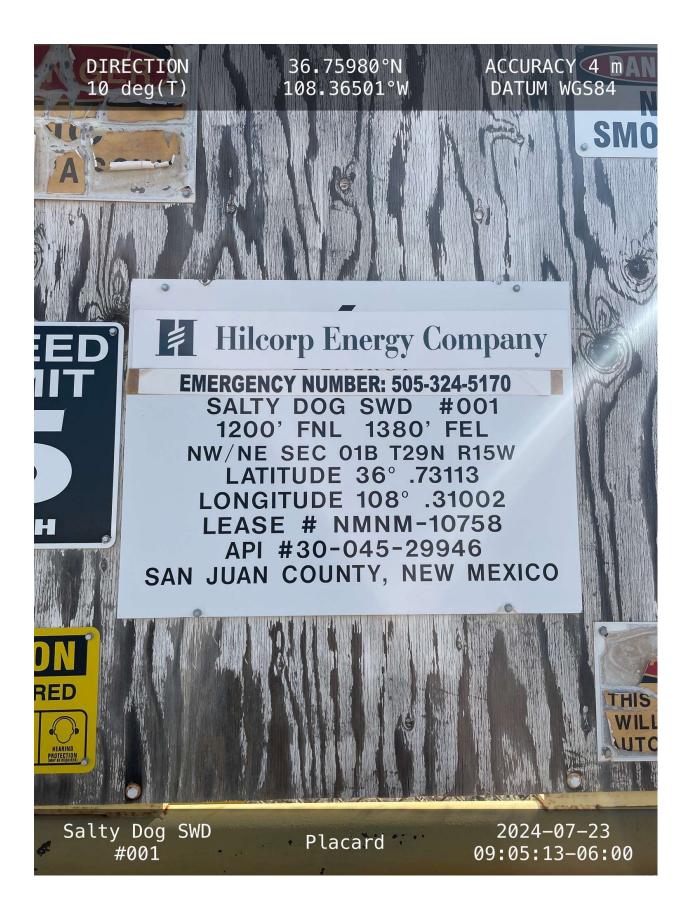
Dear Landowner:

Pursuant to New Mexico Administrative Code § 19.15.17.13 (E) (1) operator shall provide the surface owner of the operator's proposal to close a below- grade tank.

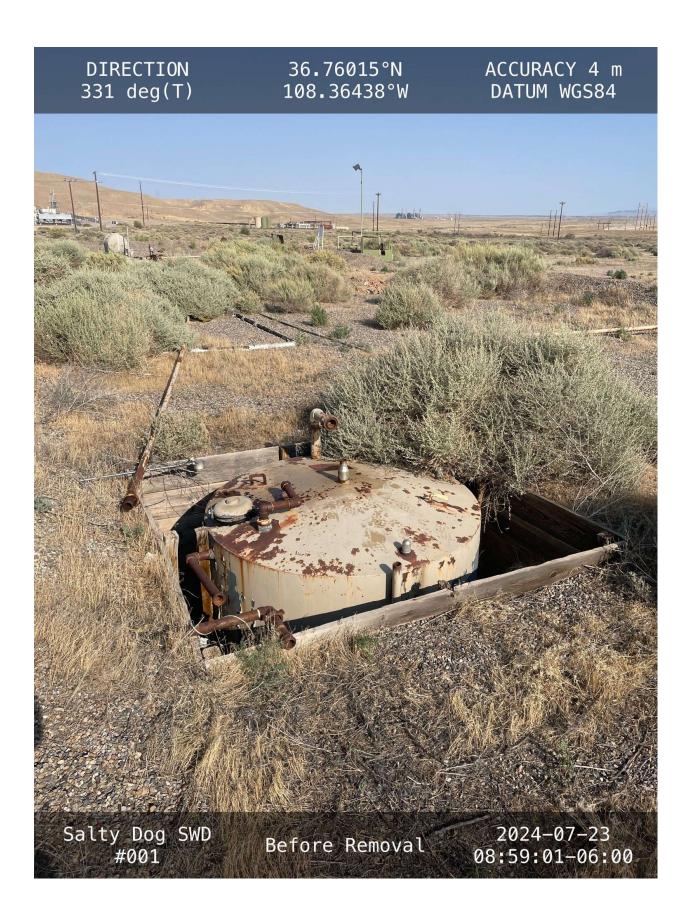
In compliance with this requirement, please consider this letter as notification that Hilcorp San Juan, L.P. intends to close a below-grade tank on the subject well pad. The closure process will begin between 72 hours and one week from this notification.

If you have any questions regarding this work, please call within five (5) days of receiving this notice.

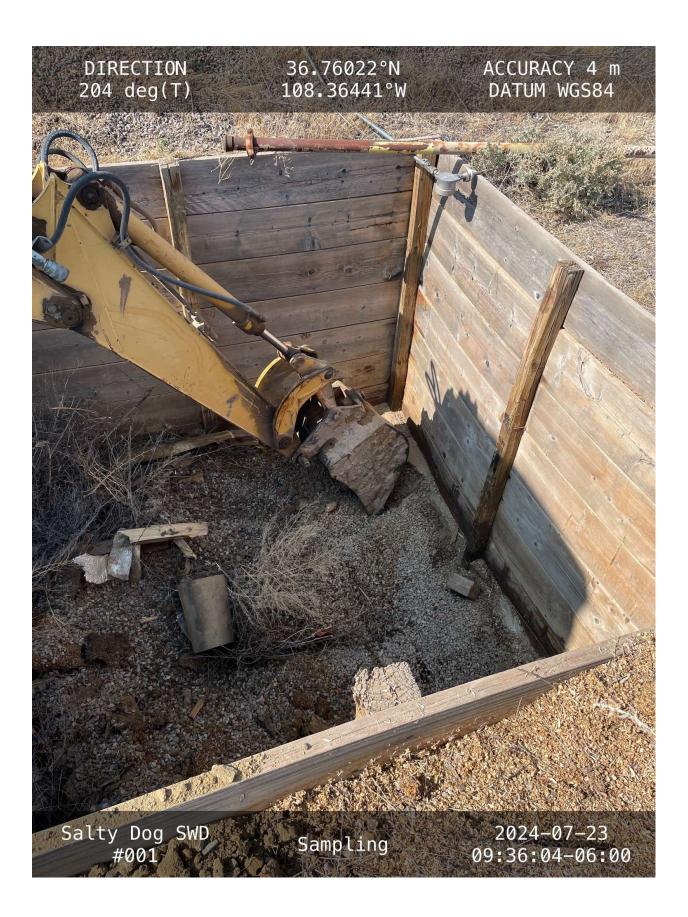
Sincerely <i>Ram</i> North L	 SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. Article Addressed to: COMMONDUAC Amount of the second second	COMPLETE THIS SECTION ON DELIVERY A. Signature X ☐ Agent ☐ Addressee B. Received by (Printed Name) C. Date of Delivery D. Is delivery address different from item 1? Yes If YES, enter delivery address below:
	9590 9402 7573 2098 4579 24 2 Addida Number (Transformation 2003 1570 5100	Service Type Adult Signature Adult Signature Restricted Delivery Certified Mail® Stricted Delivery Certified Mail® Stricted Delivery Collect on Delivery Restricted Delivery Collect on Delivery Restricted Delivery red Mail red Mail Restricted Delivery (over \$500)

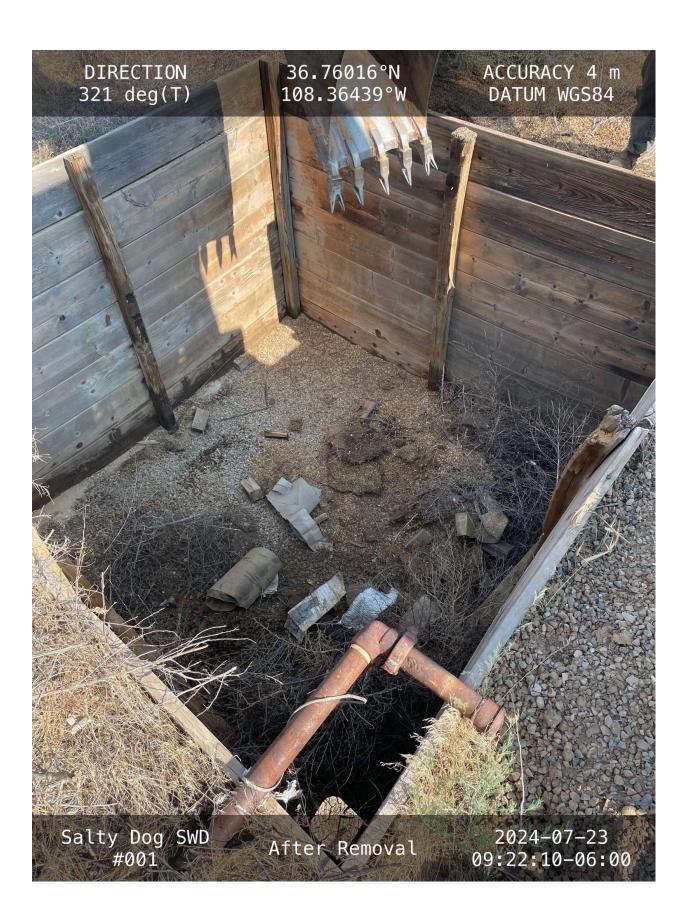












Priscilla Shorty

From:	OCDOnline@state.nm.us
Sent:	Thursday, October 31, 2024 2:49 PM
То:	Mitch Killough
Subject:	[EXTERNAL] The Oil Conservation Division (OCD) has approved the application, Application ID: 396875

CAUTION: External sender. DO NOT open links or attachments from UNKNOWN senders.

To whom it may concern (c/o Mitch Killough for HILCORP ENERGY COMPANY),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2430352742, with the following conditions:

• None

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you, Scott Rodgers Environmental Specialist - A 505-469-1830 scott.rodgers@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505 District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

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Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Hilcorp Energy Company	OGRID 372171					
Contact Name Mitch Killough	Contact Telephone 713-757-5247					
Contact email mkillough@hilcorp.com	Incident #					
Contact mailing address 1111 Travis Street, Houston, Texas						
77002						

Location of Release Source

Latitude 36.760096_

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Salty Dog SWD 1	Site Type Well
Date Release Discovered: 10/28/2024 – Date of Envirotech laboratory report	API# 30-045-29946

Unit Letter	Section	Township	Range	County			
В	01	29N	15W	San Juan			

Surface Owner: 🗌 State 🗌 Federal 🗌 Tribal 🖾 Private

Nature and Volume of Release

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

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

Cause of Release:

Historical release discovered during the permanent removal of a below-grade tank (BGT). Refer to attached memo (dated 11/18/2024) for additional information.

Per the memo attached, all future work on this project will be carried out in accordance with 19.15.29 NMAC. A Form C-141 was submitted to the NMOCD on 10/29/2024.

Received by OCD: 12/26/2024 10:28:59 AM Form C-141 State of New Mexico

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Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	This is a major release since soil delineation attempts proved that the total impacted soil volume exceeded 60 yards. The estimated spill volume is unknown.
Yes 🗌 No	
If YES, was immediate ne	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Yes, immediate notice wa	as provided to the NMOCD via an online C-141 submittal on 10/29/2024.

Initial Response

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

 \square The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: <u>Mitch Killough</u>	Title: <u>Environmental Specialist</u>
Signature:	Date:11/18/2024
email:mkillough@hilcorp.com	Telephone:713-757-5247
OCD Only	
Received by:	Date:



Memorandum

To:	New Mexico Oil Conservation Division (NMOCD)
From:	Mitch Killough, Hilcorp Energy Company (Hilcorp)
Date:	11/18/2024
Subject:	Salty Dog SWD 1 – Permanent Closure of a Below-Grade Tank (BGT)

On 7/18/2024, Hilcorp submitted a 72-hour notice prior to the permanent closure of a BGT at the Salty Dog SWD 1, San Juan County, New Mexico. As required by Condition 7 (found in the Closure Plan, approved by the NMOCD on 5/15/2023), Hilcorp personnel proceeded to collect a 5-pt composite soil sample on 7/23/2024 to determine if any contaminant concentrations exceeded the BGT closure criteria thresholds, per Condition 7. Upon receiving analytical results on 7/31/2024, Hilcorp determined that total petroleum hydrocarbons (TPH) exceeded the BGT closure criteria thresholds shown in Condition 7 of the closure plan. Thus, indicating that a potential release occurred (refer to table below). In addition, TPH exceeded the Closure Criteria for Soils Impacted by a Release listed in Table I of 19.15.29.12 NMAC for groundwater depths (51 ft - 100 ft).

Soil Sample Identification	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)		GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	GRO+DRO (mg/kg)	TPH (mg/kg)
Bottom Comp 7'	7/23/2024	<0.024	<0.047	<0.047	<0.095	<0.213	<60	<4.7	1700	11000	1700	12700
NMOCD BGT Closure C	riteria	0.2	NE	NE	NE	50	250	NE	NE	NE	NE	100
Table I of 19.15.29.12 N	MAC	10	NE	NE	NE	50	10,000	NE	NE	NE	1,000	2,500

Between August through October 2024, Hilcorp commenced soil delineation activities in order to determine the extent of impacted soils immediately adjacent and beneath the former BGT location. Upon receiving the latest analytical report (dated 10/28/2024), Hilcorp was able to determine the full extent of impacted soils and the total impacted soil volume. The estimated total impacted soil volume is 347 cubic yards. Note that while conducting soil delineation activities, Hilcorp proved that depth to groundwater was greater than 50 ft below ground surface. Additional supporting material can be made available upon request.

In light of the latest lab results, Hilcorp submitted a C-141 to notify the NMOCD of the results on 10/29/2024. The Incident ID is nAPP2430352742. All future work on this project will be carried out in accordance with 19.15.29 NMAC.

Enclosures: Table 1 – Soil Sample Analytical Results Estimated Volume Tool Notification of Release (dated 10/29/2024) Initial Lab Report (dated 7/31/2024)

> Hilcorp Energy Company 1111 Travis Street, Houston, Texas 77002 T 713.209.2400 F 713.289.2750

	TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Salty Dog SWD #1 BGT Hilcorp Energy Company													
	San Juan County, New Mexico													
Sample Identification	Date	Depth (feet bgs)	PID (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure	Criteria for Soils Release	Impacted by a	NE	10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	10,000
Bottom Comp 7'	7/23/2024	7'		< 0.024	<0.047	<0.047	<0.095	<0.095	<4.7	1,700	11,000	1,700	12,700	<60
PH01 @ 10'	8/8/2024	10'	0.1	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.8	<49	<9.8	<49	180
PH01 @ 12'	9/4/2024	12'	0.3	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	35	140	35	175	410
PH02 @ 4'	8/8/2024	4'	11.2	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	150	560	150	710	890
PH02 @ 7'	8/8/2024	7'	1.9	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	51	220	51	271	1,700
PH02 @ 10'	8/8/2024	10'	0.8	<0.025	< 0.050	<0.050	<0.099	<0.099	<5.0	780	4,800	780	5,580	310
PH03 @ 4'	8/8/2024	4'	1.4											
PH03 @ 7'	8/8/2024	7'	2.5	< 0.024	<0.049	< 0.049	< 0.097	<0.097	<4.9	320	1,000	320	1,320	2,100
PH03 @ 10'	8/8/2024	10'	12.2	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	490	1,300	490	1,790	380
PH04 @ 4'	8/8/2024	4'	0.1											
PH04 @ 7'	8/8/2024	7'	0.4	< 0.024	<0.048	<0.048	<0.096	<0.096	<4.8	1,200	4,700	1,200	5,900	340
PH04 @ 10'	8/8/2024	10'	0.7	<0.025	< 0.049	<0.049	<0.098	<0.098	<4.9	920	6,100	920	7,020	340
PH05 @ 9'	9/4/2024	9'	0.1	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.0	<45	<9.0	<45	1,400
PH05 @ 12'	9/4/2024	12'	0.7	<0.024	<0.048	<0.048	< 0.097	<0.097	<4.8	<9.9	<50	<9.9	<50	940
PH07 @ 6'	9/4/2024	6'	2.7	<0.024	<0.049	< 0.049	<0.097	<0.097	<4.9	430	880	430	1,310	1,500
PH07 @ 12'	9/4/2024	12'	2.5	<0.024	<0.049	< 0.049	<0.098	<0.098	<4.9	45	95	45	110	1,100
PH07 @ 15'	9/19/2024	15'	7.9	<0.025	<0.050	<0.050	<0.010	<0.010	<5.0	31	61	31	92	860
PH07 @ 18'	9/19/2024	18'	2.6	<0.024	< 0.049	<0.049	<0.098	<0.098	<4.9	<9.8	<49	<9.8	<49	780
PH08 @ 3'	9/4/2024	3'	1.3	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	18	<48	18	18	1,100
PH08 @ 6'	9/4/2024	6'	1.6	<0.023	<0.047	<0.047	< 0.093	<0.093	<4.7	<9.9	<50	<9.9	<50	790
PH08 @ 12'	9/4/2024	12'	0.7	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.5	<48	<9.5	<48	900
PH09 @ 3'	9/19/2024	3'	1.9	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	150	<490 D	150	150	500
PH09 @ 12'	9/19/2024	12'	2.4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.9	<50	<9.9	<50	770
PH10 @ 3'	9/19/2024	3'	8.4	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	92	410	92	502	1,700
PH10 @ 12'	9/19/2024	12'	1.7	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.8	<49	<9.8	<49	1,600
PH11 @ 3'	9/19/2024	3'	3.3	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.9	<49	<9.9	<50	1,800
PH11 @ 6'	9/19/2024	6'	9.4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.7	<48	<9.7	<48	2,100
PH11 @ 12'	9/19/2024	12'	2.2	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.8	<49	<9.8	<49	530
PH12 @ 6'	9/19/2024	6'	15.1	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.9	<50	<9.9	<50	1,800
PH12 @ 12'	9/19/2024	12'	0.4	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<10	<50	<10	<50	1,300
PH13 @ 6'	9/19/2024	6'	12.7	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.6	<48	<9.6	<48	790
PH13 @ 12'	9/19/2024	12'	1.7	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.9	<49	<9.9	<49	910
BH03 @ 20-21.5'	10/22/2024	20-21.5'	0.5	<0.0250	<0.0250	< 0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	763
BH03 @ 25-26.5'	10/22/2024	25-26.5'	0.5	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	590

Notes:

bgs: Below ground surface BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes mg/kg: Milligrams per kilogram NE: Not Established NMOCD: New Mexico Oil Conservation Division PID: Photoionization detector ppm: Parts per million GRO: Gasoline Range Organics DRO: Diesel Range Organics MRO: Motor Oil/Lube Oil Range Organics TPH: Total Petroleum Hydrocarbon ': Feet < : Indicates result less than the stated laboratory reporting limit (RL) Concentrations in **bold** and shaded exceed the New Mexico Oil Conservation Division Table I Closure Criteria for Soils Impacted by a Release

ESTIMATED VOLUME TOOL SALTY DOG SWD #1 BGT HILCORP ENERGY COMPANY

This tool estimates the approximate volume of soil to be removed from an excavation based on dimensions and soil expansion factor.

EXCAVATION PARAMETERS						
Average TPH	7800.00 mg/kg					
Concentration (7-10 ft bgs)	,					
Length (E-W)	26 ft					
Width (N-S)	20 ft					
Depth/Thickness	15 ft					
Expansion Factor	20 %					
Total Soil Volume	347 <i>yds</i> ³					

ASSUMPTIONS

- Lateral delineation to the E, W, and N. Assume ~5 foot buffer between impacts and clean sample locations.

E-W: 5 ft beyond PH04 (E) TPH exceedance and clean sample PH05 to 5 ft beyond PH02 (E) TPH exceedance and clean sample PH07 (W) = \sim 26ft N-S: from the in place infrastructure/edge of containment berm (S) to 5 feet beyond TPH exceedance and within clean sample PH03 (N) = \sim 20ft

kg - kilograms

- Vertically delineated by PH01 at 12 ft bgs proximal to source, PH08 (N) & PH05 (E) at 12 ft bgs, and PH07 (W) at 18ft bgs. = ~ 15 ft bgs

- Onsite groundwater is deeper than 50 ft bgs per the BH02 boring log results.

- Chloride concentrations did not exceed applicable NMOCD Closure Criteria

S - south

NOTES

% - percent ft - feet

N - north

bgs - below ground surface

E - east W - west TPH- Total Petroleum Hydrocarbons

mg - milligrams

yds³- cubic yards

Mitch Killough

From:	OCDOnline@state.nm.us
Sent:	Tuesday, October 29, 2024 2:39 PM
То:	Mitch Killough
Subject:	[EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 396872

CAUTION: External sender. DO NOT open links or attachments from UNKNOWN senders.

To whom it may concern (c/o Mitch Killough for HILCORP ENERGY COMPANY),

The OCD has accepted the submitted *Notification of a release* (NOR), for incident ID (n#) nAPP2430352742, with the following conditions:

• When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.

Please reference nAPP2430352742, on all subsequent C-141 submissions and communications regarding the remediation of this release.

NOTE: As of December 2019, NMOCD has discontinued the use of the "RP" number. If you have any questions regarding this application, or don't know why you have received this email, please contact us.

ocd.enviro@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505 Received by OCD: 12/26/2024 10:28:59 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mitch Killough Hilcorp Energy PO BOX 4700 Farmington, New Mexico 87499 Generated 7/31/2024 2:39:06 PM

JOB DESCRIPTION

Salty Dog SWD #001

JOB NUMBER

885-8503-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

See page two for job notes and contact information.

5 6

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Juhelle (paria

Generated 7/31/2024 2:39:06 PM

Authorized for release by Michelle Garcia, Project Manager michelle.garcia@et.eurofinsus.com (505)345-3975

Laboratory Job ID: 885-8503-1

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QC Sample Results	7
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Definitions/Glossary

Client: Hilcorp Energy
Project/Site: Salty Dog SWD #001

Job ID: 885-8503-1

Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	4
S1+	Surrogate recovery exceeds control limits, high biased.	
GC Semi VOA		5
Qualifier	Qualifier Description	
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a	
61	dilution may be flagged with a D.	
S1-	Surrogate recovery exceeds control limits, low biased.	7
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	ŏ
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	0
%R	Percent Recovery	9
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	
TNTC	Too Numerous To Count	

Case Narrative

Job ID: 885-8503-1

Job ID: 885-8503-1

Eurofins Albuquerque

21 1 2 3 4 5 6 7 8 9 10 11

003-1

Job Narrative 885-8503-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
 situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
 specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 7/24/2024 6:25 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.1°C.

Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

Method 8015D_DRO: The following sample required a dilution due to the nature of the sample matrix: Bottom Comp 7' (885-8503-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client Sample Results

Client: Hilcorp Energy Project/Site: Salty Dog SWD #001

Client Sample ID: Bottom Comp 7'

Date Collected: 07/23/24 09:40 Date Received: 07/24/24 06:25

Method: SW846 8015M/D - Gaso	line Range Org	anics (GRC)) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		07/25/24 11:50	07/27/24 02:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		35 - 166			07/25/24 11:50	07/27/24 02:56	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		07/25/24 11:50	07/27/24 02:56	1
Ethylbenzene	ND		0.047	mg/Kg		07/25/24 11:50	07/27/24 02:56	1
Toluene	ND		0.047	mg/Kg		07/25/24 11:50	07/27/24 02:56	1
Xylenes, Total	ND		0.095	mg/Kg		07/25/24 11:50	07/27/24 02:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		48 - 145			07/25/24 11:50	07/27/24 02:56	1
_ Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1700		920	mg/Kg		07/25/24 17:22	07/29/24 21:43	100
Motor Oil Range Organics	11000		4600	mg/Kg		07/25/24 17:22	07/29/24 21:43	100
[C28-C40]								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	D S1-	62 - 134			07/25/24 17:22	07/29/24 21:43	100
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		07/26/24 08:31	07/26/24 15:57	20

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Job ID: 885-8503-1

Lab Sample ID: 885-8503-1

Matrix: Solid

5

QC Sample Results

Client: Hilcorp Energy Project/Site: Salty Dog SWD #001

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-9166/1-A												Client Sa	mple ID: Me	thod Bla
Matrix: Solid													Prep Typ	e: Total/I
Analysis Batch: 9320													Prep E	Batch: 91
		MB	МВ											
Analyte	Re	sult	Qualifier		RL		Ur	nit		D	Pi	repared	Analyzed	Dil F
Gasoline Range Organics [C6 - C10]		ND			5.0		mį	g/Kg			07/2	5/24 11:50	07/26/24 18:	13
		ΜВ	МВ											
Surrogate	%Recov	ery	Qualifier	Lim	its						PI	repared	Analyzed	Dil I
4-Bromofluorobenzene (Surr)		91		35 -	166					-	07/2	5/24 11:50	07/26/24 18:	13
Lab Sample ID: LCS 885-9166/2-A Matrix: Solid	L									Cli	ient	Sample	ID: Lab Cont Prep Typ	
Analysis Batch: 9320													Prep E	Batch: 91
				Spike		LCS	LCS						%Rec	
Analyte				Added		Result	Qualifie	rι	Jnit		D	%Rec	Limits	
Gasoline Range Organics [C6 - C10]				25.0		21.1		r	ng/Kg		_	84	70 - 130	
	LCS	LCS												
Surrogate	%Recovery	Qual	ifier	Limits										

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-9166/1-A Matrix: Solid								Client S	ample ID: Metho Prep Type: ⁻	
Analysis Batch: 9321									Prep Bate	ch: 9166
	MB	MB								
Analyte	Result	Qualifier	RL		Unit		DI	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/K	g	07/	25/24 11:50	07/26/24 18:13	1
Ethylbenzene	ND		0.050		mg/K	g	07/	25/24 11:50	07/26/24 18:13	1
Toluene	ND		0.050		mg/K	g	07/	25/24 11:50	07/26/24 18:13	1
Xylenes, Total	ND		0.10		mg/K	g	07/	25/24 11:50	07/26/24 18:13	1
	МВ	МВ								
Surrogate	%Recovery	Qualifier	Limits					Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		48 - 145				07/	25/24 11:50	07/26/24 18:13	1
- Lab Sample ID: LCS 885-9166/3-A							Clien	t Sample	ID: Lab Control	Sample
Matrix: Solid									Prep Type: ⁻	Total/NA
Analysis Batch: 9321									Prep Bate	ch: 9166
			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene			1.00	0.900		mg/Kg		90	70 - 130	
Ethylbenzene			1.00	0.905		mg/Kg		91	70 - 130	
m&p-Xylene			2.00	1.80		mg/Kg		90	70 - 130	

1.00

0.910

0.894

2.71

mg/Kg

mg/Kg

mg/Kg

Job ID: 885-8503-1

5 6

91

89

90

70 - 130

70 - 130

70 - 130

o-Xylene

QC Sample Results

Client: Hilcorp Energy Project/Site: Salty Dog SWD #001

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-9219/1-A						Client Sa	mple ID: Metho	d Blank
Matrix: Solid							Prep Type: 1	otal/NA
Analysis Batch: 9331							Prep Bate	:h: 9219
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		07/25/24 17:22	07/29/24 20:53	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		07/25/24 17:22	07/29/24 20:53	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	122		62 - 134			07/25/24 17:22	07/29/24 20:53	1

Lab Sample ID: MB 885-9230/1-A Matrix: Solid Analysis Batch: 9280									Client Sa	ample ID: Metho Prep Type: ` Prep Bato	Total/NA
Analyte	MB Result	MB Qualifier		RL		Unit		D	Prepared	Analyzed	Dil Fac
Chloride	ND			3.0		mg/K	g	07	/26/24 08:31	07/26/24 12:34	1
Lab Sample ID: LCS 885-9230/2-A								Clie	nt Sample	ID: Lab Control	Sample
Matrix: Solid										Prep Type:	Total/NA
Analysis Batch: 9280										Prep Bat	ch: 9230
			Spike	L	CS L	_CS				%Rec	
Analyte			Added	Res	sult C	Qualifier	Unit	0	%Rec	Limits	
Chloride			30.0	2	7.0		mg/Kg		90	90 - 110	

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Job ID: 885-8503-1

Client Sample ID

Lab Control Sample

Lab Control Sample

Client Sample ID

Lab Control Sample

Bottom Comp 7

Method Blank

Bottom Comp 7

Method Blank

QC Association Summary

Prep Type Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Total/NA

Matrix

Solid

Solid

Solid

Solid

Matrix

Solid

Solid

Solid

Method

5030C

5030C

5030C

5030C

Method

8015M/D

8015M/D

8015M/D

Client: Hilcorp Energy Project/Site: Salty Dog SWD #001

GC VOA

Prep Batch: 9166

Lab Sample ID

MB 885-9166/1-A

LCS 885-9166/2-A

LCS 885-9166/3-A

Lab Sample ID

MB 885-9166/1-A

LCS 885-9166/2-A

885-8503-1

Analysis Batch: 9320

885-8503-1

Job ID: 885-8503-1

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Prep Batch

Prep Batch

9166

9166

9166

7

Analysis Batch: 9321

Lab Sample ID 885-8503-1	Client Sample ID Bottom Comp 7'	Prep Type Total/NA	Matrix Solid	Method 8021B	Prep Batch 9166
MB 885-9166/1-A	Method Blank	Total/NA	Solid	8021B	9166
LCS 885-9166/3-A	Lab Control Sample	Total/NA	Solid	8021B	9166

GC Semi VOA

Prep Batch: 9219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8503-1	Bottom Comp 7'	Total/NA	Solid	SHAKE	
MB 885-9219/1-A	Method Blank	Total/NA	Solid	SHAKE	
Analysis Batch: 9331 –					
Analysis Batch: 9331 Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
-		Prep Type Total/NA	Matrix Solid	<u>Method</u> 8015M/D	Prep Batch 9219

HPLC/IC

Prep Batch: 9230

Lab Sample ID 885-8503-1	Client Sample ID Bottom Comp 7'	Prep Type Total/NA	Matrix Solid	Method 300 Prep	Prep Batch
MB 885-9230/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-9230/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
Analysis Batch: 9280					
I ab Sample ID	Client Sample ID	Pren Type	Matrix	Method	Pren Batch

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8503-1	Bottom Comp 7'	Total/NA	Solid	300.0	9230
MB 885-9230/1-A	Method Blank	Total/NA	Solid	300.0	9230
LCS 885-9230/2-A	Lab Control Sample	Total/NA	Solid	300.0	9230

Job ID: 885-8503-1

Matrix: Solid

Lab Sample ID: 885-8503-1

Client: Hilcorp Energy Project/Site: Salty Dog SWD #001

Client Sample ID: Bottom Comp 7' Date Collected: 07/23/24 09:40 Date Received: 07/24/24 06:25

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			9166	JP	EET ALB	07/25/24 11:50
Total/NA	Analysis	8015M/D		1	9320	RA	EET ALB	07/27/24 02:56
Total/NA	Prep	5030C			9166	JP	EET ALB	07/25/24 11:50
Total/NA	Analysis	8021B		1	9321	RA	EET ALB	07/27/24 02:56
Total/NA	Prep	SHAKE			9219	DH	EET ALB	07/25/24 17:22
Total/NA	Analysis	8015M/D		100	9331	KR	EET ALB	07/29/24 21:43
Total/NA	Prep	300_Prep			9230	RC	EET ALB	07/26/24 08:31
Total/NA	Analysis	300.0		20	9280	RC	EET ALB	07/26/24 15:57

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Eurofins Albuquerque

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Accreditation/Certification Summary

Client: Hilcorp Energy Project/Site: Salty Dog SWD #001

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

nority	Prog	ram	Identification Number	Expiration Date
Mexico	State		NM9425, NM0901	02-26-25
The following analytes	are included in this report, b	ut the laboratory is not certif	ied by the governing authority. This li	st may include analytes
for which the agency d	oes not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte	
300.0	300_Prep	Solid	Chloride	
8015M/D	5030C	Solid	Gasoline Range Organics	s [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [0	C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organic	s [C28-C40]
8021B	5030C	Solid	Benzene	
8021B	5030C	Solid	Ethylbenzene	
8021B	5030C	Solid	Toluene	
8021B	5030C	Solid	Xylenes, Total	
gon	NELA	P	NM100001	02-26-25

Job ID: 885-8503-1

<i>Received by OCD: 12/26/202</i>	4 10:28:59 AM	Page 39 of 221
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request		
		80 1
87107		
AB AB al.cor , NM 345-4	otal Coliform (Present/Absent)	
11 R nents 505-5	(AOV-imə2) 0728	6 Av Detail
ENVIRONME LYSIS LABOR/ allenvironmental.com - Albuquerque, NM 87109 Ex 505-345-4107 Analysis Request	(AOV) 0928	
	CI) L'-BL' NO³¹ NO⁵¹ LO⁴¹ 20 4	
 HALL ENVIRON HALL ENVIRON ANALYSIS LABC ANALYSIS LABC ANALYSIS LABC ANALYSIS LABC ANALYSIS LABC ANALYSIS Request 	SHIs by 8310 or 8270SIMS CRA 8 Metals	
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	Project Manage $M_i + c h$ Sampler: B_{rab} Sampler: B_{rab} On Ice: Q Cooler Temp(hal	Pe and # 9.2 Jar
Turn-Arou Stand Project Na Project #:	Project Ma <i>M i H</i> Sampler: On Ice: # of Coole Cooler Te Container True and	Y 0 1 Y 0 1 Received by: 1 1
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11

Job Number: 885-8503-1

List Source: Eurofins Albuquerque

Login Sample Receipt Checklist

Client: Hilcorp Energy

Login Number: 8503

List Number: 1 Creator: Casarrubias, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



December 19, 2024

New Mexico Oil Conservation Division New Mexico Energy, Minerals, and Natural Resources Department 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Site Summary Report Salty Dog SWD 1 BGT San Juan County, New Mexico Hilcorp Energy Company

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Site Summary Report* associated with a release discovered at the Salty Dog #1 SWD BGT natural gas production well pad (Site). The Site is located on private land in Unit B, Section 1, Township 29 North, Range 15 West in San Juan County, New Mexico.

SITE BACKGROUND

On July 23, 2024, Hilcorp began to decomission on-Site infrastructure which included a below grade tank (BGT). To satisfy BGT closure requirements per the Site closure plan submitted by Hilcorp on Form C-144 (dated May 15, 2023), one 5-point composite sample was collected from beneath the BGT following removal and analyzed for total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, and xylenes (BTEX), and chloride. This sample (Bottom Comp 7') contained TPH concentrations exceeding all applicable closure criteria in *Table I Closure Criteria for Soils Beneath Below-Grade Tanks, Drying Pads Associated with Closed-Loop Systems and Pits where Contents are Removed* of Title 19, Chapter 15, Part 17 of the New Mexico Administrative Code (NMAC). As such, Hilcorp conducted a subsurface investigation at the Site to assess Site-specific depth to groundwater determination and delineate impacts discovered during the BGT closure sampling.

SITE CHARACTERIZATION

The Site is located on private land within the municipal boundaries of the Town of Kirtland, New Mexico. As part of the site characterization, local geology/hydrogeology and nearby sensitive receptors were assessed in accordance with Title 19, Chapter 15, Part 29, Sections 12 and 13 of the New Mexico Administrative Code (NMAC). This information is further discussed below.

GEOLOGY AND HYDROGEOLOGY

The geology underlying the Site is the Late Cretaceous Fruitland Formation-Kirtland Shale. These two formations are difficult to distinguish and are often treated as a single unit (Stone, et. al., 1983). The Fruitland Formation consists of interbedded sandy shale, carbonaceous shale, clayey sandstone, coal, and sandstone." The Kirtland Shale is characterized by a lower shale member, a middle sandstone member, and an upper shale member. These combined units' thickness ranges from 100 feet to 2,000

Hilcorp Energy Company Site Summary Report Salty Dog 1 SWD BGT

feet. Water bearing units within the Fruitland Formation-Kirtland Shale are largely untested and display variable hydrologic properties dependent on location (Stone, et. al., 1983). These formations contain the main coal reserves within the San Juan Basin. The primary aquifer within these formations typically yields small quantities of water and is not widely used for domestic and/or livestock supply. The Fruitland Formation-Kirtland Shale is underlain by the Pictured Cliffs Formation.

POTENTIAL SENSITIVE RECEPTORS

Potential nearby receptors were assessed through desktop reviews of United States Geological Survey (USGS) topographic maps, Federal Emergency Management Administration (FEMA) Geographic Information System (GIS) maps, New Mexico Office of the State Engineer (NMOSE) database, aerial photographs, and site-specific observations.

The nearest significant watercourse to the Site is Stevens Arroyo located approximately 0.5 miles northwest of the Site. The depth of groundwater was established with a dry boring advanced to 51.5 feet below ground surface (bgs) at the Site. This boring indicates that the shallowest groundwater is greater than 50 feet bgs in this area. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake, and greater than 300 feet from any wetland. Of note, three former evaporation ponds and two raw water ponds associated with the adjacent San Juan River Gas Plant were located just north of the Site. It is understood that these ponds were removed in the 1990s and are not classified as surface water bodies and/or wetlands.

No wellhead protection areas, springs, or domestic/stock wells are located within a ½-mile from the Site. The Site is not within a 100-year floodplain, overlying a subsurface mine, or located within an area underlain by unstable geology (area not designated as high potential karst by the Bureau of Land Management). Schools, hospitals, institutions, churches, and/or other occupied permanent residence or structures are not located within 300 feet of the Site. A Site receptor map is shown on Figure 1.

SITE CLOSURE CRITERIA

Based on the information presented above and in accordance with the *Table I, Closure Criteria for Soils Impacted by a Release* (19.15.29.12 NMAC), the following contaminants of concern (COC) and closure criteria should be applied to the Site. Because the Site is located within the Town of Kirtland, New Mexico municipal boundaries, the closure criteria listed below are contingent on the approval from the Town of Kirtland.

- Chloride: 10,000 milligrams per kilogram (mg/kg)
- Total Petroleum Hydrocarbons (TPH) as a combination of gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO): 2,500 mg/kg
- A combination of GRO and DRO: 1,000 mg/kg
- A combination of benzene, toluene, ethylbenzene, and xylenes (BTEX): 50 mg/kg
- Benzene: 10 mg/kg

SITE INVESTIGATION ACTIVITIES

To investigate potential impacts, Hilcorp retained Ensolum to perform delineation activities at the Site. On August 8, 2024, initial investigation efforts were performed utilizing a backhoe to advance four potholes (PH01 through PH04) in close proximity to the former BGT location (Figure 2). Soil was field screened during the delineation effort and at least two samples from each pothole were collected for laboratory analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B, TPH following EPA Method 8015M/D, and chloride following EPA Method 300.



Hilcorp Energy Company Site Summary Report Salty Dog 1 SWD BGT

Page 3

Based on elevated TPH results detected during the initial effort, eight additional potholes (PH05 through PH13) were advanced on September 4 and September 19, 2024. These potholes were advanced using an excavator to depths up to the maximum reach of the equipment of 18 feet bgs. During the investigation, an Ensolum geologist assessed the soil for petroleum hydrocarbon staining and odors. Soil samples were field screened for the presence of organic vapors using a calibrated photoionization detector (PID) and chloride concentrations with Hach® chloride test strips. Based on field screening results, at least two soil samples were collected from each pothole directly into laboratory-provided jars and immediately placed on ice. Soil samples were collected from depth intervals indicating the greatest impacts based on field screening results and from the terminal depth of the boring. Samples were submitted for laboratory analysis of BTEX, TPH, and chloride using the methods described above. Based on analytical results, all analyzed samples from potholes PH05 through PH13 were in compliance with the NMOCD Table I Closure Criteria for Site COCs.

In addition, four hand auger locations (HA01 through HA04) were advanced up to 4 feet bgs on November 21, 2024 in attempts to laterally delineate COCs for the Reclamation Requirement of 100 mg/kg of TPH and 600 mg/kg of chloride (19.15.29.13(D)(1) NMAC). During hand auguring activities, an Ensolum geologist field screened using a PID and chloride test strips as described above. Soil samples were collected from depth intervals indicating the greatest impacts based on field screening results and from the terminal depth of the boring. Soil samples were collected directly into laboratory-provided jars and immediately placed on ice. Samples were submitted laboratory analysis of TPH, BTEX, and chloride. Detected chloride concentrations at HA01, HA02, HA03, and HA04 were above the Reclamation Requirement in all locations but below NMOCD Table I Closure Criteria.

Laboratory analytical results from delineation activities are summarized in Table 1 and on Figure 2. Complete laboratory analytical reports are attached as Appendix A. Photographs taken during delineation activities are included in Appendix B.

DRILLING AND DEPTH TO WATER DETERMINATION

Based on the initial field screening and pothole sample results, drilling was required to determine depth to water at the Site and confirm delineation results near the former BGT. Drilling activities took place between October 21 to October 23, 2024 utilizing a hollow-stem auger drill rig operated by Enviro-Drill, Inc. A total of three borings (BH01 through BH03) were advanced to depths between 26 feet and 51 feet bgs. BH01 encountered shallow refusal at 26.5 feet bgs and was subsequently not sampled. BH02 was advanced to assess depth to groundwater and was advanced to 51.5 feet bgs. Lastly, boring BH03 was advanced through the previously excavated BGT footprint to vertically delineate soil impacts at pothole PH01. Soil samples were collected from 20 to 21.5 feet bgs and 26 to 26.5 feet bgs for laboratory analysis.

During drilling, an Ensolum geologist logged lithology and field screened in the manner described above. Soil samples were collected from depth intervals indicating the greatest impacts based on field screening results and from the terminal depth of boring BH03. Soil samples were collected directly into laboratoryprovided jars and immediately placed on ice. Samples were also submitted for laboratory analysis of TPH, BTEX, and chloride. Concentrations of these constituents did not exceed the NMOCD Table I Closure Criteria and confirms vertical delineation at the Site.

Boring BH02 was advanced to 51.5 feet bgs and the boring was left open for approximately 72 hours to allow for any potential groundwater present to recharge into the open hole. Ensolum revisited the Site on October 24 and confirmed that no groundwater had accumulated within the noted timeframe using an oil/water interface probe. As such, groundwater was confirmed to be deeper than 51.5 bgs at the Site. Pothole, boring, and hand auger locations are presented in Figure 2 and analytical results are summarized in Table 1. Field boring logs and drillers logs are attached as Appendix C.



Hilcorp Energy Company Site Summary Report Salty Dog 1 SWD BGT

Based on the activities and analytical results described above, impacted soil resulting from the historical impacts identified during BGT removal have been laterally and vertically delineated.

REFERENCES

Stone, W., Lyford, F., Frenzel, P., Mizell, N., & Padgett, E. (1983). Hydrogeology and Water Resources of San Juan Basin, New Mexico. New Mexico Bureau of Mines & Mineral Resources.

We appreciate the opportunity to provide this document to the NMOCD. If you should have any questions or comments regarding this document, please contact the undersigned.

Sincerely,

Ensolum, **LLC**

Sul

Sidney Mahanay Project Geologist (979) 877-8887 smahanay@ensolum.com

Stuart Hyde, PG Senior Managing Geologist (970) 903-1607 shyde@ensolum.com

Attachments:

- Figure 1: Site Location Map
- Figure 2: Soil Sample Analytical Results
- Table 1:Soil Sample Analytical Results
- Appendix A: Laboratory Analytical Reports
- Appendix B: Photographic Log
- Appendix C: Field Boring Logs and Drilling Reports



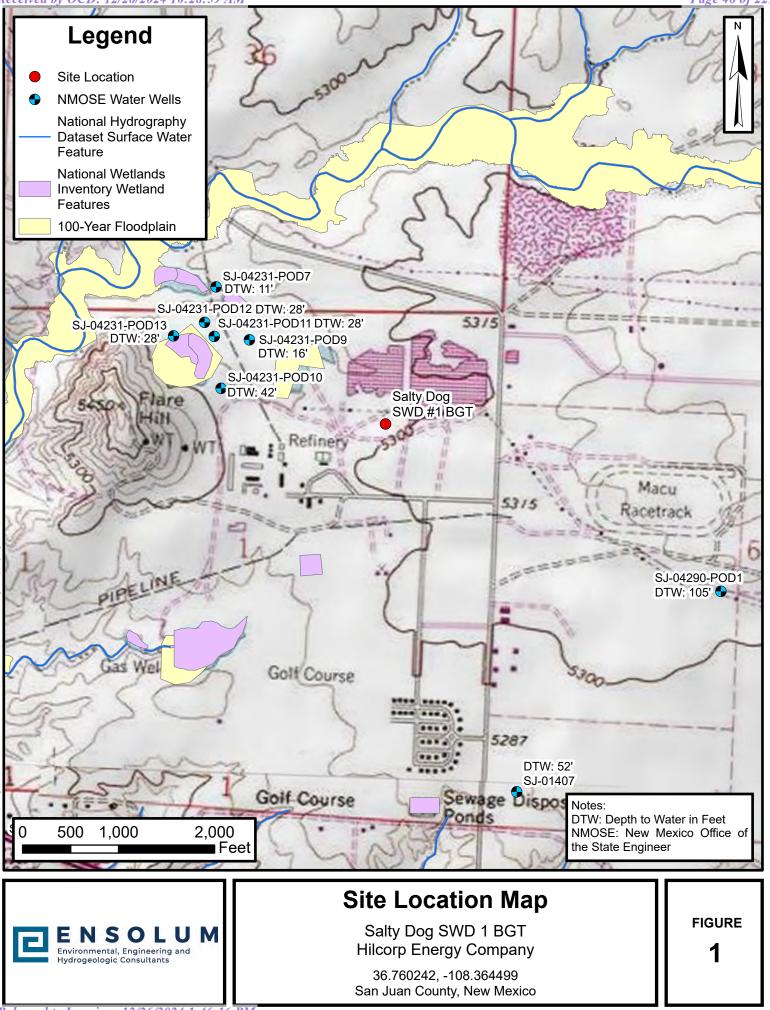


FIGURES

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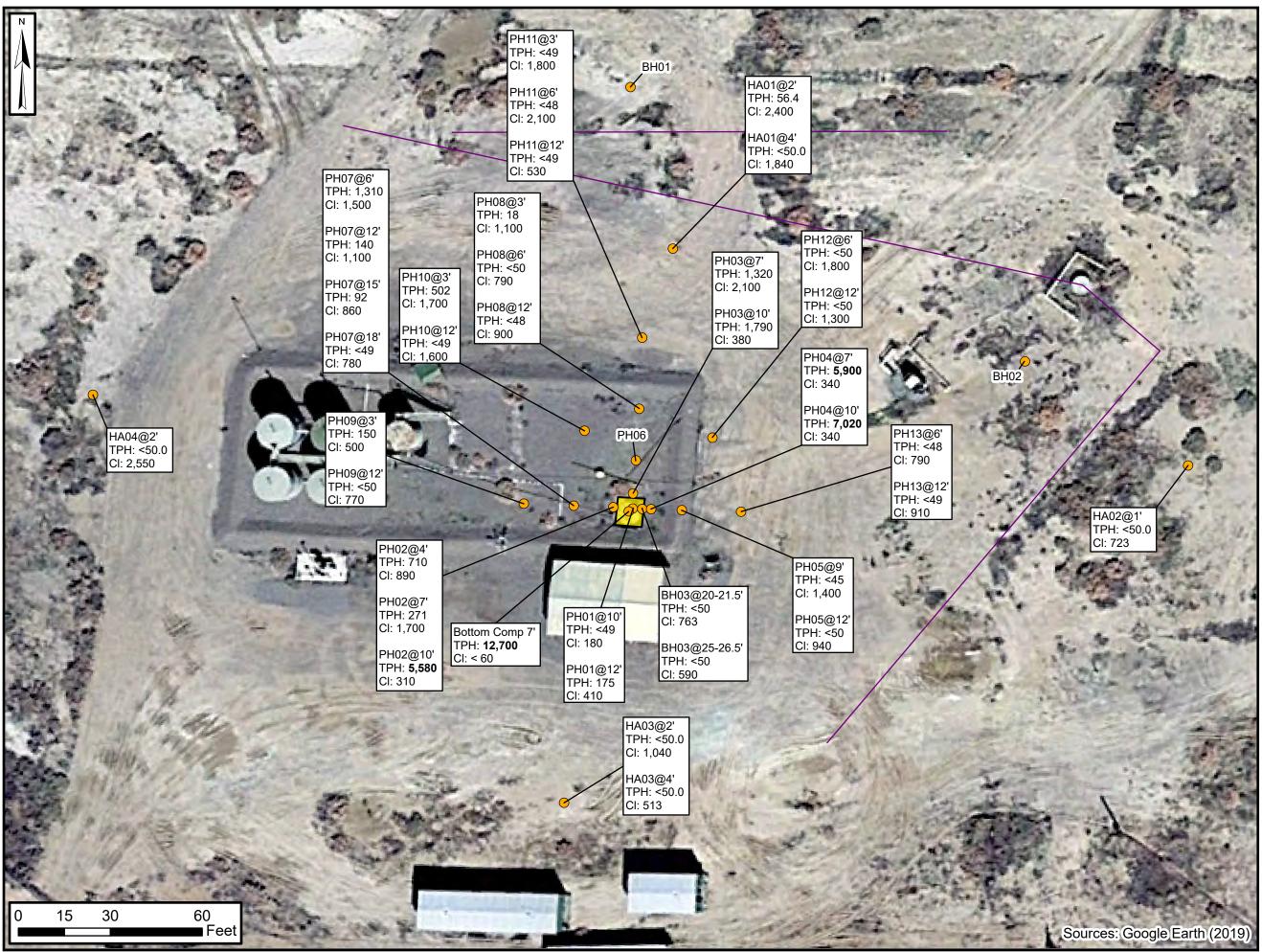
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Legend Sample Location \bigcirc **Pipeline Line Utility Bellow Grade Tank** Cellar Notes: TPH: Total Petroleum Hydrocarbons milligrams per kilogram (mg/kg) Cl: Chloride (mg/kg) < : Indicates Result is below Laboratory Reporting Limit **Bold**: Indicates Results Exceed NMOCD Closure Criteria NMOCD: New Mexico Oil Conservation Division

Soil Sample Analytical Results

Salty Dog SWD 1 BGT Hilcorp Energy Company

36.760242, -108.364499 San Juan County, New Mexico

Figure

2





TABLES

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	TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Salty Dog SWD 1 BGT Hilcorp Energy Company San Juan County, New Mexico													
Sample Identification	Date	Depth (feet bgs)	PID (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure	Criteria for Soils Release	Impacted by a	NE	10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	10,000
Bottom Comp 7'	7/23/2024	7'		<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	1,700	11,000	1,700	12,700	<60
PH01 @ 10'	8/8/2024	10'	0.1	<0.025	< 0.050	<0.050	<0.099	<0.099	<5.0	<9.8	<49	<9.8	<49	180
PH01 @ 12'	9/4/2024	12'	0.3	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	35	140	35	175	410
PH02 @ 4'	8/8/2024	4'	11.2	<0.025	< 0.050	<0.050	<0.10	<0.10	<5.0	150	560	150	710	890
PH02 @ 7'	8/8/2024	7'	1.9	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	51	220	51	271	1,700 F2
PH02 @ 10'	8/8/2024	10'	0.8	<0.025	< 0.050	<0.050	<0.099	<0.099	<5.0	780	4,800	780	5,580	310
PH03 @ 4'	8/8/2024	4'	1.4											
PH03 @ 7'	8/8/2024	7'	2.5	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	320	1,000	320	1,320	2,100
PH03 @ 10'	8/8/2024	10'	12.2	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	490	1,300	490	1,790	380
PH04 @ 4'	8/8/2024	4'	0.1				-		-					
PH04 @ 7'	8/8/2024	7'	0.4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	1,200	4,700	1,200	5,900	340
PH04 @ 10'	8/8/2024	10'	0.7	<0.025	< 0.049	<0.049	<0.098	<0.098	<4.9	920	6,100	920	7,020	340
PH05 @ 9'	9/4/2024	9'	0.1	< 0.024	<0.048	<0.048	<0.095	< 0.095	<4.8	<9.0	<45	<9.0	<45	1,400
PH05 @ 12'	9/4/2024	12'	0.7	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.9	<50	<9.9	<50	940
PH07 @ 6'	9/4/2024	6'	2.7	<0.024	< 0.049	<0.049	<0.097	<0.097	<4.9	430	880	430	1,310	1,500
PH07 @ 12'	9/4/2024	12'	2.5	< 0.024	< 0.049	<0.049	<0.098	<0.098	<4.9	45	95	45	140	1,100
PH07 @ 15'	9/19/2024	15'	7.9	<0.025	< 0.050	<0.050	<0.10	<0.10	<5.0	31	61	31	92	860
PH07 @ 18'	9/19/2024	18'	2.6	< 0.024	< 0.049	<0.049	<0.098	<0.098	<4.9	<9.8	<49	<9.8	<49	780
PH08 @ 3'	9/4/2024	3'	1.3	< 0.023	< 0.047	<0.047	<0.093	< 0.093	<4.7	18	<48	18	18	1,100
PH08 @ 6'	9/4/2024	6'	1.6	< 0.023	< 0.047	<0.047	<0.093	< 0.093	<4.7	<9.9	<50	<9.9	<50	790
PH08 @ 12'	9/4/2024	12'	0.7	<0.024	< 0.048	<0.048	<0.097	< 0.097	<4.8	<9.5	<48	<9.5	<48	900
PH09 @ 3'	9/19/2024	3'	1.9	< 0.024	< 0.048	<0.048	<0.097	< 0.097	<4.8	150	<490 D	150	150	500
PH09 @ 12'	9/19/2024	12'	2.4	<0.024	< 0.048	<0.048	<0.096	< 0.096	<4.8	<9.9	<50	<9.9	<50	770
PH10 @ 3'	9/19/2024	3'	8.4	< 0.024	< 0.048	<0.048	<0.095	<0.095	<4.8	92	410	92	502	1,700
PH10 @ 12'	9/19/2024	12'	1.7	< 0.023	< 0.047	< 0.047	< 0.093	< 0.093	<4.7	<9.8	<49	<9.8	<49	1,600
PH11 @ 3'	9/19/2024	3'	3.3	<0.024	< 0.047	<0.047	<0.095	< 0.095	<4.7	<9.9	<49	<9.9	<49	1,800 F1
PH11 @ 6'	9/19/2024	6'	9.4	<0.025	< 0.049	<0.049	<0.099	<0.099	<4.9	<9.7	<48	<9.7	<48	2,100
PH11 @ 12'	9/19/2024	12'	2.2	< 0.024	< 0.049	< 0.049	< 0.097	<0.097	<4.9	<9.8	<49	<9.8	<49	530
PH12 @ 6'	9/19/2024	6'	15.1	< 0.023	< 0.047	<0.047	<0.094	<0.094	<4.7	<9.9	<50	<9.9	<50	1,800
PH12 @ 12'	9/19/2024	12'	0.4	<0.024	< 0.049	<0.049	<0.097	<0.097	<4.9	<10	<50	<10	<50	1,300
PH13 @ 6'	9/19/2024	6'	12.7	<0.025	< 0.049	<0.049	<0.099	<0.099	<4.9	<9.6	<48	<9.6	<48	790
PH13 @ 12'	9/19/2024	12'	1.7	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.9	<49	<9.9	<49	910
BH03 @ 20-21.5'	10/22/2024	20-21.5'	0.5	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	763
BH03 @ 25-26.5'	10/22/2024	25-26.5'	0.5	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	590
HA01 @ 2'	11/21/2024	2'	1.5	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	56.4	<25.0	56.4	2,400
HA01 @ 4'	11/21/2024	4'	1.2	< 0.0250	< 0.0250	< 0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	1,840
HA02 @1'	11/21/2024	1'	1.1	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	723
HA03 @ 2'	11/21/2024	2'	2.7	< 0.0250	< 0.0250	< 0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	1,040
HA03 @ 4'	11/21/2024	4'	3.4	< 0.0250	< 0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	513
HA04 @ 2'	11/21/2024	2'	2.9	< 0.0250	< 0.0250	< 0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	2,550

Notes:

bgs: Below ground surface BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes F1: MS and/or MSD recovery exceeds control limits F2: MS/MSD RPD exceeds control limits mg/kg: Milligrams per kilogram NE: Not Established NMOCD: New Mexico Oil Conservation Division PID: Photoionization detector ppm: Parts per million GRO: Gasoline Range Organics DRO: Diesel Range Organics MRO: Motor Oil/Lube Oil Range Organics TPH: Total Petroleum Hydrocarbon

': Feet

<: Indicates result less than the stated laboratory reporting limit (RL)

Concentrations in **bold** and shaded exceed the New Mexico Oil Conservation Division Table I Closure Criteria for Soils Impacted by a Release

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APPENDIX A

Laboratory Analytical Reports

Released to Imaging: 12/26/2024 1:46:16 PM

Received by OCD: 12/26/2024 10:28:59 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mitch Killough Hilcorp Energy PO BOX 4700 Farmington, New Mexico 87499 Generated 7/31/2024 2:39:06 PM

JOB DESCRIPTION

Salty Dog SWD #001

JOB NUMBER

885-8503-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

See page two for job notes and contact information.

5 6

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Juhelle (paria Authorized for release by

Michelle Garcia, Project Manager michelle.garcia@et.eurofinsus.com

(505)345-3975

Generated 7/31/2024 2:39:06 PM

Released to Imaging: 12/26/2024 1:46:16 PM

Laboratory Job ID: 885-8503-1

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Definitions/Glossary

Client: Hilcorp Energy
Project/Site: Salty Dog SWD #001

Job ID: 885-8503-1

Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	
S1+	Surrogate recovery exceeds control limits, high biased.	
GC Semi VOA		5
Qualifier	Qualifier Description	
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a	6
.	dilution may be flagged with a D.	
S1-	Surrogate recovery exceeds control limits, low biased.	
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	8
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	0
%R	Percent Recovery	9
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	
TNTC	Too Numerous To Count	

Case Narrative

Job ID: 885-8503-1

Job ID: 885-8503-1

Eurofins Albuquerque

Job Narrative 885-8503-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
 situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
 specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 7/24/2024 6:25 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.1°C.

Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

Method 8015D_DRO: The following sample required a dilution due to the nature of the sample matrix: Bottom Comp 7' (885-8503-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client: Hilcorp Energy Project/Site: Salty Dog SWD #001

Client Sample ID: Bottom Comp 7'

Date Collected: 07/23/24 09:40 Date Received: 07/24/24 06:25

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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		07/25/24 11:50	07/27/24 02:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		35 - 166			07/25/24 11:50	07/27/24 02:56	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		07/25/24 11:50	07/27/24 02:56	1
Ethylbenzene	ND		0.047	mg/Kg		07/25/24 11:50	07/27/24 02:56	1
Toluene	ND		0.047	mg/Kg		07/25/24 11:50	07/27/24 02:56	1
Xylenes, Total	ND		0.095	mg/Kg		07/25/24 11:50	07/27/24 02:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		48 - 145			07/25/24 11:50	07/27/24 02:56	1
- Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
								DirFac
Diesel Range Organics [C10-C28]	1700		920	mg/Kg		07/25/24 17:22	07/29/24 21:43	100
Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	1700 11000	<u> </u>		mg/Kg mg/Kg		07/25/24 17:22 07/25/24 17:22	07/29/24 21:43 07/29/24 21:43	
Motor Oil Range Organics		Qualifier	920	00				100
Motor Oil Range Organics [C28-C40]	11000 %Recovery	Qualifier D S1-	920 4600	00		07/25/24 17:22	07/29/24 21:43	100 100
Motor Oil Range Organics [C28-C40] Surrogate	11000 <u>%Recovery</u> 0	D S1-	920 4600 <i>Limits</i>	00		07/25/24 17:22 Prepared	07/29/24 21:43 Analyzed	100 100 Dil Fac
Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	11000 <u>%Recovery</u> 0 Chromatograp	D S1-	920 4600 <i>Limits</i>	00		07/25/24 17:22 Prepared	07/29/24 21:43 Analyzed	100 100 Dil Fac

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5

Job ID: 885-8503-1

Lab Sample ID: 885-8503-1 Matrix: Solid

Released to Imaging: 12/26/2024 1:46:16 PM

QC Sample Results

Client: Hilcorp Energy Project/Site: Salty Dog SWD #001

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-9166/1-A												Client Sa	mple ID: Met	hod Blank
Matrix: Solid													Prep Type	e: Total/NA
Analysis Batch: 9320														atch: 9166
-		ΜВ	МВ											
Analyte	Re	sult	Qualifier		RL		Ur	nit		D	P	repared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]		ND			5.0		mę	g/Kg			07/2	5/24 11:50	07/26/24 18:1	3
		ΜВ	МВ											
Surrogate	%Recov	very	Qualifier	Limits	5						P	repared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		91		35 - 16	66						07/2	5/24 11:50	07/26/24 18:1	3
Lab Sample ID: LCS 885-9166/2-A Matrix: Solid Analysis Batch: 9320	L .									CI	lient	Sample		ol Sample : Total/NA atch: 9166
				Spike		LCS	LCS						%Rec	
Analyte				Added		Result	Qualifie	r I	Unit		D	%Rec	Limits	
Gasoline Range Organics [C6 - C10]				25.0		21.1		I	mg/Kg			84	70 - 130	
	LCS	LCS												
Surrogate	%Recovery	Qual	ifier	Limits										

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-9166/1-A Matrix: Solid Analysis Batch: 9321								Client	Sample ID: Metho Prep Type: [*] Prep Bate	Total/NA
	MB	МВ								
Analyte	Result	Qualifier	RL		Unit		D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/K	g	07	7/25/24 11:5	0 07/26/24 18:13	1
Ethylbenzene	ND		0.050		mg/K	g	07	//25/24 11:5	0 07/26/24 18:13	1
Toluene	ND		0.050		mg/K	g	07	/25/24 11:5	0 07/26/24 18:13	1
Xylenes, Total	ND		0.10		mg/K	g	07	/25/24 11:5	0 07/26/24 18:13	1
	МВ	МВ								
Surrogate	%Recovery	Qualifier	Limits					Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		48 - 145				07	7/25/24 11:	07/26/24 18:13	1
Lab Sample ID: LCS 885-9166/3-A Matrix: Solid Analysis Batch: 9321							Clie	nt Sampl	e ID: Lab Control Prep Type: ⁻ Prep Bat	Total/NA
-			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	0	%Rec	Limits	
Benzene			1.00	0.900		mg/Kg		90	70 - 130	
Ethylbenzene			1.00	0.905		mg/Kg		91	70 - 130	
m&p-Xylene			2.00	1.80		mg/Kg		90	70 - 130	

1.00

0.910

0.894

2.71

mg/Kg

mg/Kg

mg/Kg

Toluene			1.00
Xylenes, Total			3.00
	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		48 _ 145

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91

89

90

70 - 130

70 - 130

70 - 130

Job ID: 885-8503-1 5 6

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o-Xylene

QC Sample Results

Method: 8015M/D - Diesel Range Organics (DRO

Job ID: 885-8503-1

Lab Sample ID: MB 885-9219/1-A						Client Sa	mple ID: Metho	d Blank
Matrix: Solid							Prep Type: 1	otal/NA
Analysis Batch: 9331							Prep Bato	h: 9219
	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		07/25/24 17:22	07/29/24 20:53	
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		07/25/24 17:22	07/29/24 20:53	
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Di-n-octyl phthalate (Surr)	122		62 - 134			07/25/24 17:22	07/29/24 20:53	
Lab Sample ID: MB 885-9230/1-A	hromatogra	aphy				Client Sa	mple ID: Metho Prep Type: 1	
lethod: 300.0 - Anions, Ion C Lab Sample ID: MB 885-9230/1-A Matrix: Solid Analysis Batch: 9280	hromatogra	aphy				Client Sa		otal/N/
Lab Sample ID: MB 885-9230/1-A Matrix: Solid	hromatogra MB					Client Sa	Prep Type: 1	otal/NA
Lab Sample ID: MB 885-9230/1-A Matrix: Solid	МВ		RL	Unit	D	Client Sa Prepared	Prep Type: 1	otal/N

Lab Sample ID: LCS 885-9230/2-A					Client	Sample	ID: Lab C	ontrol Sample
Matrix: Solid							Prep	Type: Total/NA
Analysis Batch: 9280							Pre	p Batch: 9230
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	30.0	27.0		mg/Kg		90	90 - 110	

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QC Association Summary

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Total/NA

Client: Hilcorp Energy Project/Site: Salty Dog SWD #001

GC VOA

885-8503-1

Prep Batch: 9166

MB 885-9166/1-A

LCS 885-9166/2-A

LCS 885-9166/3-A

Lab Sample ID

MB 885-9166/1-A

LCS 885-9166/2-A

885-8503-1

Analysis Batch: 9320

Job ID: 885-8503-1

Method

5030C

5030C

5030C

5030C

Method

8015M/D

8015M/D

8015M/D

Matrix

Solid

Solid

Solid

Solid

Matrix

Solid

Solid

Solid

Prep Batch

Prep Batch

9166

9166

9166

7 8 9

Blank	
ntrol Sample	

Client Sample ID

Lab Control Sample

Lab Control Sample

Client Sample ID

Bottom Comp 7'

Method

Lab Cor

Bottom Comp 7

Method Blank

Analysis Batch: 9321

Lab Sample ID 885-8503-1	Client Sample ID Bottom Comp 7'	Prep Type Total/NA	Matrix Solid	Method 8021B	Prep Batch 9166
MB 885-9166/1-A	Method Blank	Total/NA	Solid	8021B	9166
LCS 885-9166/3-A	Lab Control Sample	Total/NA	Solid	8021B	9166

GC Semi VOA

Prep Batch: 9219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8503-1	Bottom Comp 7'	Total/NA	Solid	SHAKE	
MB 885-9219/1-A	Method Blank	Total/NA	Solid	SHAKE	
Analysis Batch: 9331					
Analysis Batch: 9331	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
Г		Prep Type Total/NA	Matrix Solid	Method 8015M/D	Prep Batch 9219

HPLC/IC

Prep Batch: 9230

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-8503-1	Bottom Comp 7'	Total/NA	Solid	300_Prep	
MB 885-9230/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-9230/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
Analysis Batch: 9280					
Lab Sample ID	Client Sample ID	Bron Tuno	Motrix	Mothod	Bron Botob

Lab Sample ID	Client Sample ID	Prep Type	Matrix	wethod	Ргер Ватсп
885-8503-1	Bottom Comp 7'	Total/NA	Solid	300.0	9230
MB 885-9230/1-A	Method Blank	Total/NA	Solid	300.0	9230
LCS 885-9230/2-A	Lab Control Sample	Total/NA	Solid	300.0	9230

Job ID: 885-8503-1

Matrix: Solid

Lab Sample ID: 885-8503-1

Client: Hilcorp Energy Project/Site: Salty Dog SWD #001

Client Sample ID: Bottom Comp 7' Date Collected: 07/23/24 09:40 Date Received: 07/24/24 06:25

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			9166	JP	EET ALB	07/25/24 11:50
Total/NA	Analysis	8015M/D		1	9320	RA	EET ALB	07/27/24 02:56
Total/NA	Prep	5030C			9166	JP	EET ALB	07/25/24 11:50
Total/NA	Analysis	8021B		1	9321	RA	EET ALB	07/27/24 02:56
Total/NA	Prep	SHAKE			9219	DH	EET ALB	07/25/24 17:22
Total/NA	Analysis	8015M/D		100	9331	KR	EET ALB	07/29/24 21:43
Total/NA	Prep	300_Prep			9230	RC	EET ALB	07/26/24 08:31
Total/NA	Analysis	300.0		20	9280	RC	EET ALB	07/26/24 15:57

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Eurofins Albuquerque

Released to Imaging: 12/26/2024 1:46:16 PM

Accreditation/Certification Summary

Client: Hilcorp Energy Project/Site: Salty Dog SWD #001

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

thority	Prog	ram	Identification Number	Expiration Date					
w Mexico	State		NM9425, NM0901	NM9425, NM0901 02-26-25					
The following analytes	are included in this report, b	ut the laboratory is not certif	ied by the governing authority. This lis	st may include analytes					
for which the agency de	oes not offer certification.								
Analysis Method	Prep Method	Matrix	Analyte						
300.0	300_Prep	Solid	Chloride						
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]						
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]						
8015M/D	SHAKE	Solid	Motor Oil Range Organics	Motor Oil Range Organics [C28-C40]					
8021B	5030C	Solid	Benzene						
8021B	5030C	Solid	Ethylbenzene						
8021B	5030C	Solid	Toluene						
8021B	5030C	Solid	Xylenes, Total						
regon		٨P	NM100001	02-26-25					

Job ID: 885-8503-1

LAL AL AL				⁰⁸⁵⁻⁸⁵⁰³ COC		<i></i>	- 11	174										1	Page 62		1
HALL ENVIRONMENTAL ANALYSIS LABORATOR	2	7109 H	17 <u>5</u> 2																	Any sub-contracted data will be clearly notated on the analytical report.	
ABO N	www.hallenvironmental.com	Albuquerque, NM 87109	505-345-4107	est	(ìu	əsq		rese	<u>а) п</u>	iforr	O lato T									ed on the a	5
	nenta	erque	505-3	Request				(AO\	/-ime	92) 0728									y notat	6
	ironn	ndue	Fax (sis						(AC	DV) 0928									e clearl	
ШУ	lenv	dIA	щ	Analysis	705	S '*C)d ''	ZON	<u>'E</u> E	N .	CI) L' B'	5								will be	
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					(208	18,8	IMI	73	AIR	-(хэтд	\rangle						Remarks:		s poss	
Turn-Around Time: 5 5 day Standard Drush	Project Name:	Salt has SWN #DOI	Project#:		Project Manager:	-	Mitch Killongh	Sampler: Brandan Sinclair	Unice: 18 Yes I No Yog) # of Contains: 1			1 .					1	When a pare time, we	Received by. Via: couver Date Time	This serves a	
Chain-of-Custody Record ^{Client:} Hilcor O		Mailing Address:		Phone #:	email or Fax#: hrandon, Sincle irb h; leorg com Project Manager:	ge	Standard Level 4 (Full Validation)	□ Az Compliance			g Date Time Matrix Sample Name	7-23 940 50:1	12					Date. Time Relinquished by:	2) Date: Time. Religquished by	f necessary, samples submitted to Hall Environmental	2

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Re

Login Sample Receipt Checklist

Client: Hilcorp Energy

Login Number: 8503

List Number: 1 Creator: Casarrubias, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

List Source: Eurofins Albuquerque

Received by OCD: 12/26/2024 10:28:59 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mitch Killough Hilcorp Energy PO BOX 4700 Farmington, New Mexico 87499 Generated 8/31/2024 10:03:08 PM

JOB DESCRIPTION

Salty Dog SWD

JOB NUMBER

885-9544-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Generated 8/31/2024 10:03:08 PM

Authorized for release by Andy Freeman, Business Unit Manager andy.freeman@et.eurofinsus.com Designee for Michelle Garcia, Project Manager michelle.garcia@et.eurofinsus.com (505)345-3975

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Client Sample Results	6
QC Sample Results	14
QC Association Summary	18
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Certification Summary	24
Chain of Custody	25
Receipt Checklists	26

Client: Hilcorp Energy Project/Site: Salty Dog SWD

Job ID: 885-9544-1

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Qualifiers

Qualifiers		3
GC Semi VC	Α	
Qualifier	Qualifier Description	
*+	LCS and/or LCSD is outside acceptance limits, high biased.	
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.	5
S1-	Surrogate recovery exceeds control limits, low biased.	
S1+	Surrogate recovery exceeds control limits, high biased.	
HPLC/IC		
Qualifier	Qualifier Description	
F2	MS/MSD RPD exceeds control limits	8
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	9
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	

¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Job ID: 885-9544-1

Client: Hilcorp Energy Project: Salty Dog SWD

Eurofins Albuquerque

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Job Narrative

885-9544-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 8/9/2024 6:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.8°C.

Gasoline Range Organics

No additional analytical or guality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

Method 8015D DRO: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 885-10121 and analytical batch 885-10172 recovered outside control limits for the following analytes: Diesel Range Organics [C10-C28]. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8015D DRO: The following samples were diluted due to the nature of the sample matrix PH02@10' (885-9544-4) and PH04@10' (885-9544-10). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8015D DRO: The following samples required a dilution due to the nature of the sample matrix: PH02@4' (885-9544-2), PH03@7' (885-9544-6), PH03@10' (885-9544-7) and PH04@7' (885-9544-9). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Hilcorp Energy Project/Site: Salty Dog SWD

Client Sample ID: PH01@10' Date Collected: 08/08/24 14:15 Date Received: 08/09/24 06:15

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h	ıח	885-9544-1
JD	ID.	000-9044-1

Jo

Lab Sample ID: 885-9544-1 Matrix: Solid

5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		08/12/24 10:39	08/13/24 20:49	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	96		35 - 166			08/12/24 10:39	08/13/24 20:49	
Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	ND		0.025	mg/Kg		08/12/24 10:39	08/13/24 20:49	
Ethylbenzene	ND		0.050	mg/Kg		08/12/24 10:39	08/13/24 20:49	
Toluene	ND		0.050	mg/Kg		08/12/24 10:39	08/13/24 20:49	
Xylenes, Total	ND		0.099	mg/Kg		08/12/24 10:39	08/13/24 20:49	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	86		48 - 145			08/12/24 10:39	08/13/24 20:49	
Method: SW846 8015M/D - Die	esel Range (Organics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Diesel Range Organics [C10-C28]	ND	*+	9.8	mg/Kg		08/12/24 15:45	08/13/24 12:29	
	ND		49	mg/Kg		08/12/24 15:45	08/13/24 12:29	
Motor Oil Range Organics [C28-C40]								
	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Surrogate	%Recovery 104	Qualifier	Limits 62 - 134			Prepared 08/12/24 15:45	Analyzed 08/13/24 12:29	Dil Fa
Surrogate Di-n-octyl phthalate (Surr)	104							Dil Fa
Motor Oil Range Organics [C28-C40] <i>Surrogate</i> <i>Di-n-octyl phthalate (Surr)</i> Method: EPA 300.0 - Anions, I Analyte	104 Ion Chromat			Unit	D			Dil Fa

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Eurofins Albuquerque

RL

5.0

Unit

mg/Kg

D

Prepared

Client: Hilcorp Energy Project/Site: Salty Dog SWD

Analyte

Client Sample ID: PH02@4' Date Collected: 08/08/24 14:25 Date Received: 08/09/24 06:15

Gasoline Range Organics [C6 - C10]

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Result Qualifier

ND

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Analyzed

Lab Sample ID: 885-9544-2 Matrix: Solid

08/12/24 10:39 08/13/24 21:59

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		35 - 166			08/12/24 10:39	08/13/24 21:59	1
Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/12/24 10:39	08/13/24 21:59	1
Ethylbenzene	ND		0.050	mg/Kg		08/12/24 10:39	08/13/24 21:59	1
Toluene	ND		0.050	mg/Kg		08/12/24 10:39	08/13/24 21:59	1
Xylenes, Total	ND		0.10	mg/Kg		08/12/24 10:39	08/13/24 21:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
			10 115				00/10/01 01 50	
4-Bromofluorobenzene (Surr)	84		48 - 145			08/12/24 10:39	08/13/24 21:59	1
4-Bromofiluorobenzene (Surr) - Method: SW846 8015M/D - Die Analyte	esel Range (<mark>Organics</mark> (Qualifier		Unit	D	08/12/24 10:39 Prepared	Analyzed	7 Dil Fac
Method: SW846 8015M/D - Die	esel Range (-	DRO) (GC)	Unit mg/Kg	D			
Method: SW846 8015M/D - Die Analyte	esel Range (Result	-	DRO) (GC) RL		<u>D</u>	Prepared	Analyzed	10
Method: SW846 8015M/D - Die Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics	esel Range (Result 150	Qualifier	DRO) (GC) 	mg/Kg	<u>D</u>	Prepared 08/19/24 14:25	Analyzed 08/20/24 10:27	10 10
Method: SW846 8015M/D - Die Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	esel Range (Result 150 560 %Recovery	Qualifier	DRO) (GC) <u>RL</u> 94 470	mg/Kg	<u>D</u>	Prepared 08/19/24 14:25 08/19/24 14:25	Analyzed 08/20/24 10:27 08/20/24 10:27	10 10 <i>Dil Fac</i>
Method: SW846 8015M/D - Die Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate	esel Range (Result 150 560 %Recovery 0	Qualifier Qualifier S1- D	DRO) (GC) <u>RL</u> 94 470 Limits	mg/Kg	<u>D</u>	Prepared 08/19/24 14:25 08/19/24 14:25 Prepared	Analyzed 08/20/24 10:27 08/20/24 10:27 Analyzed	10 10 <i>Dil Fac</i>
Method: SW846 8015M/D - Die Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	esel Range (Result 150 560 %Recovery 0 on Chromat	Qualifier Qualifier S1- D	DRO) (GC) <u>RL</u> 94 470 Limits	mg/Kg	D	Prepared 08/19/24 14:25 08/19/24 14:25 Prepared	Analyzed 08/20/24 10:27 08/20/24 10:27 Analyzed	Dil Fac 10 10 Dil Fac 10 Dil Fac

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Dil Fac

1

5

Client: Hilcorp Energy Project/Site: Salty Dog SWD

Client Sample ID: PH02@7' Date Collected: 08/08/24 15:10 Date Received: 08/09/24 06:15

Released to Imaging: 12/26/2024 1:46:16 PM	Page 8 of 26
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Job ID: 885-9544-1

Lab Sample ID: 885-9544-3

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		08/12/24 10:39	08/13/24 23:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 166			08/12/24 10:39	08/13/24 23:10	1
Method: SW846 8021B - Volati	ile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/12/24 10:39	08/13/24 23:10	1
Ethylbenzene	ND		0.048	mg/Kg		08/12/24 10:39	08/13/24 23:10	1
Toluene	ND		0.048	mg/Kg		08/12/24 10:39	08/13/24 23:10	1
Xylenes, Total	ND		0.096	mg/Kg		08/12/24 10:39	08/13/24 23:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		48 - 145			08/12/24 10:39	08/13/24 23:10	1
Method: SW846 8015M/D - Die	sel Range (Organics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	51		9.7	mg/Kg		08/20/24 12:52	08/21/24 13:57	1
Motor Oil Range Organics [C28-C40]	220		48	mg/Kg		08/20/24 12:52	08/21/24 13:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	98		62 - 134			08/20/24 12:52	08/21/24 13:57	1
Method: EPA 300.0 - Anions, I	on Chromat	tography						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1700	E 2	60	mg/Kg		08/12/24 17:05	08/13/24 17:13	20

5

Eurofins Albuquerque

RL

5.0

RL

0.025

0.050

0.050

0.099

RL 190

970

RL

60

Limits

Limits

62 - 134

48 - 145

Limits

35 - 166

Unit

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Unit

mg/Kg

mg/Kg

Unit

mg/Kg

mg/Kg

D

D

D

D

Prepared

08/12/24 10:39

Prepared

Prepared

08/12/24 10:39

08/12/24 10:39

Prepared

Prepared

08/16/24 12:02

Prepared

Prepared

08/12/24 10:39 08/13/24 23:33

08/12/24 10:39 08/13/24 23:33

08/12/24 10:39 08/13/24 23:33

08/12/24 10:39 08/13/24 23:33

08/16/24 12:02 08/16/24 18:00

08/16/24 12:02 08/16/24 18:00

08/12/24 17:05 08/13/24 17:58

Client: Hilcorp Energy Project/Site: Salty Dog SWD

Analyte

Surrogate

Analyte

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surrogate

Analyte

[C28-C40] Surrogate

Analyte

Chloride

Client Sample ID: PH02@10' Date Collected: 08/08/24 14:35 Date Received: 08/09/24 06:15

Gasoline Range Organics [C6 - C10]

4-Bromofluorobenzene (Surr)

4-Bromofluorobenzene (Surr)

Motor Oil Range Organics

Di-n-octyl phthalate (Surr)

Diesel Range Organics [C10-C28]

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Method: SW846 8021B - Volatile Organic Compounds (GC)

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Method: EPA 300.0 - Anions, Ion Chromatography

Result Qualifier

Result Qualifier

Qualifier

Qualifier

Qualifier

ND

95

ND

ND

ND

ND

85

780

0 S1-D

310

Result Qualifier

4800

%Recovery

Result Qualifier

%Recovery

%Recovery

Eurofins Albuq	uerque

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Job ID: 885-9544-1

Lab Sample ID: 885-9544-4 Matrix: Solid

Analyzed

08/13/24 23:33

Analyzed

Analyzed

08/13/24 23:33

08/13/24 23:33

Analyzed

Analyzed

08/16/24 18:00

Analyzed

Analyzed

Solid 4 Dil Fac 5

Dil Fac

Dil Fac

Dil Fac

Dil Fac

Dil Fac

Dil Fac

20

20

20

20

1

1

8/31	/2024

Client: Hilcorp Energy Project/Site: Salty Dog SWD

Analyte

Surrogate

Client Sample ID: PH03@7' Date Collected: 08/08/24 14:45 Date Received: 08/09/24 06:15

Gasoline Range Organics [C6 - C10]

4-Bromofluorobenzene (Surr)

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Result Qualifier

ND

%Recovery Qualifier

95

D

Prepared

Prepared

08/12/24 10:39 08/13/24 23:57

08/12/24 10:39 08/13/24 23:57

Unit

mg/Kg

Method: SW846 8021B - Vo	latile Organic	Compound	ds (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/12/24 10:39	08/13/24 23:57	1
Ethylbenzene	ND		0.049	mg/Kg		08/12/24 10:39	08/13/24 23:57	1
Toluene	ND		0.049	mg/Kg		08/12/24 10:39	08/13/24 23:57	1
Xylenes, Total	ND		0.097	mg/Kg		08/12/24 10:39	08/13/24 23:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		48 - 145			08/12/24 10:39	08/13/24 23:57	1

RL

4.9

Limits

35 - 166

Method: SW846 8015M/D - Die	esel Range	Organics (DRO) (GC)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed
Diesel Range Organics [C10-C28]	320		190	mg/Kg		08/16/24 12:02	08/20/24 13:00
Motor Oil Range Organics [C28-C40]	1000		970	mg/Kg		08/16/24 12:02	08/20/24 13:00
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed
Di-n-octyl phthalate (Surr)	0	D S1-	62 - 134			08/16/24 12:02	08/20/24 13:00

Method: EPA 300.0 - Anions, Ic	on Chromatog	raphy					
Analyte	Result Qu	alifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2100	150	mg/Kg		08/12/24 17:05	08/14/24 11:04	50

Dil Fac

Dil Fac

Dil Fac

Dil Fac

20

20

20

1

1

Job ID: 885-9544-1

Matrix: Solid

Lab Sample ID: 885-9544-6

Analyzed

Analyzed

Released to Imaging: 12/26/2024 1:46:16 PM

Client: Hilcorp Energy Project/Site: Salty Dog SWD

Client Sample ID: PH03@10' Date Collected: 08/08/24 14:48 Date Received: 08/09/24 06:15

Released to Imaging: 12/26/2024 1:46:16 PM	Released to Imaging:	12/26/2024 1:46:16 PM	Page 11 of 26
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Lab Sample ID: 885-9544-7 Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		08/12/24 10:39	08/14/24 00:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		35 - 166			08/12/24 10:39	08/14/24 00:20	1
Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/12/24 10:39	08/14/24 00:20	1
Ethylbenzene	ND		0.048	mg/Kg		08/12/24 10:39	08/14/24 00:20	1
Toluene	ND		0.048	mg/Kg		08/12/24 10:39	08/14/24 00:20	1
Xylenes, Total	ND		0.097	mg/Kg		08/12/24 10:39	08/14/24 00:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		48 - 145			08/12/24 10:39	08/14/24 00:20	1
Method: SW846 8015M/D - Die	esel Range	Organics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	490		200	mg/Kg		08/16/24 12:02	08/20/24 13:30	20
Motor Oil Range Organics	1300		990	mg/Kg		08/16/24 12:02	08/20/24 13:30	20
[C28-C40]						Prepared	Analyzed	Dil Fac
[C28-C40] Surrogate	%Recovery	Qualifier	Limits			, i opui ou	Analyzeu	Dirrac
Surrogate		Qualifier D S1-	Limits 62 - 134			08/16/24 12:02		
	0	D S1-						20
Surrogate Di-n-octyl phthalate (Surr)	on Chroma	D S1-		Unit	D			

-1

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Surrogate

Analyte

Chloride

Di-n-octyl phthalate (Surr)

Method: EPA 300.0 - Anions, Ion Chromatography

Client **Date Co Date Re**

Released to Imaging:	12/26/2024 1:46:16 PM

%Recovery Qualifier

340

0 D S1-

Result Qualifier

Prepared

Prepared

D

08/16/24 12:02 08/20/24 14:01

08/12/24 17:05 08/13/24 19:44

Analyzed

Analyzed

Dil Fac

Dil Fac

20

20

Eurofins Albuquerque

		Client	Sample Re	5u115				
Client: Hilcorp Energy Project/Site: Salty Dog SWD							Job ID: 885-	9544-1
Client Sample ID: PH04@7	7'					Lab Samp	le ID: 885-9	544-9
Date Collected: 08/08/24 14:55 Date Received: 08/09/24 06:15								: Solid
Method: SW846 8015M/D - Gas Analyte	-	<mark>je Organic</mark> Qualifier	s (GRO) (GC) _{RL}	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		08/12/24 10:39	08/14/24 00:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		35 - 166			08/12/24 10:39	08/14/24 00:43	1
Method: SW846 8021B - Volati	ile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/12/24 10:39	08/14/24 00:43	1
Ethylbenzene	ND		0.048	mg/Kg		08/12/24 10:39	08/14/24 00:43	1
Toluene	ND		0.048	mg/Kg		08/12/24 10:39	08/14/24 00:43	1
Xylenes, Total	ND		0.096	mg/Kg		08/12/24 10:39	08/14/24 00:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		48 - 145			08/12/24 10:39	08/14/24 00:43	1
	sel Range (Organics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1200		190	mg/Kg	_	08/16/24 12:02	08/20/24 14:01	20
Motor Oil Range Organics [C28-C40]	4700		970	mg/Kg		08/16/24 12:02	08/20/24 14:01	20

Limits

62 - 134

RL

60

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Unit

mg/Kg

Client: Hilcorp Energy Project/Site: Salty Dog SWD

Client Sample ID: PH04@10' Date Collected: 08/08/24 15:00 Date Received: 08/09/24 06:15

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Job ID: 885-9544-1

Lab Sample ID: 885-9544-10

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		08/12/24 10:39	08/14/24 01:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		35 - 166			08/12/24 10:39	08/14/24 01:07	1
Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/12/24 10:39	08/14/24 01:07	1
Ethylbenzene	ND		0.049	mg/Kg		08/12/24 10:39	08/14/24 01:07	1
Toluene	ND		0.049	mg/Kg		08/12/24 10:39	08/14/24 01:07	1
Xylenes, Total	ND		0.098	mg/Kg		08/12/24 10:39	08/14/24 01:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		48 - 145			08/12/24 10:39	08/14/24 01:07	1
Method: SW846 8015M/D - Die	sel Range (Organics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	920		190	mg/Kg		08/16/24 12:02	08/16/24 19:31	20
Motor Oil Range Organics [C28-C40]	6100		970	mg/Kg		08/16/24 12:02	08/16/24 19:31	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			08/16/24 12:02	08/16/24 19:31	20
Method: EPA 300.0 - Anions, I	on Chroma	tography						
		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Quaimer	NL	Unit	0	Fiepaieu	Analyzeu	Dirrac

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Client: Hilcorp Energy Project/Site: Salty Dog SWD										Job ID: 88	35-9	544-1
Method: 8015M/D - Gas	oline Rar	nge Organ	ics (GRO)	(GC)								
Lab Sample ID: MB 885-10	075/1-A						c	Clie	nt Sam	ole ID: Meth	od I	Blanl
Matrix: Solid										Prep Type:		
Analysis Batch: 10255										Prep Bate		
		MB MB										
Analyte	Re	sult Qualifier	RL		Unit	[C	Р	repared	Analyzed	I	Dil Fa
Gasoline Range Organics [C6 - C10	D]	ND	5.0		mg/K	g	0)8/1	2/24 10:39	08/13/24 19:3	39	
		WB WB										
C	% D = = = =	MB MB	1							A		
Surrogate 4-Bromofluorobenzene (Surr)	%Reco	very Qualifier	<i>Limits</i> 				7		r epared 2/24 10:39	Analyzed		Dil Fa
4-Bromonuorobenzene (Surr)		97	35 - 700				0	0/1	2/24 10.39	00/13/24 19.	59	
Lab Sample ID: LCS 885-10 Matrix: Solid	0075/2-A					Clie	nt S	Sar	nple ID:	Lab Contro Prep Type:		
Analysis Batch: 10255										Prep Bate		
			Spike	LCS	LCS					%Rec		
Analyte			Added		Qualifier	Unit		D	%Rec	Limits		
Gasoline Range Organics [C6 -			25.0	25.0		mg/Kg		_	100	70 - 130		
C10]						5. 5						
	LCS	LCS										
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	207		35 - 166									
Lab Sample ID: 885-9544-1 Matrix: Solid	MS								Client S	ample ID: F Prep Type:	Tot	al/N
Analysis Batch: 10255										Prep Bate	ch: 1	1007
	•	Sample	Spike	-	MS			_		%Rec		
Analyte		Qualifier	Added		Qualifier	Unit		D	<u>%Rec</u>	Limits		
Gasoline Range Organics [C6 - C10]	ND		24.9	25.7		mg/Kg			103	70 - 130		
	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	215		35 - 166									
Lab Sample ID: 885-9544-1	MSD								Client S	ample ID: F	PH01	@1
Matrix: Solid										Prep Type:	Tot	al/N
Analysis Batch: 10255										Prep Bate	ch: 1	1007
	Sample	Sample	Spike	MSD	MSD					%Rec		RP
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit		D	%Rec		RPD	Lim
Gasoline Range Organics [C6 - C10]	ND		24.9	24.1		mg/Kg			97	70 - 130	7	2
	MSD	MSD										
Surrogate	%Recovery		Limits									
4-Bromofluorobenzene (Surr)	206		35 - 166									
lethod: 8021B - Volatil	e Organio	: Compou	nds (GC)									
							_		nt Come			Dian
Lab Sample ID: MB 885-10 Matrix: Solid	U/ J/1-A						, C	>11e	ant Samp	ole ID: Meth Prep Type:	Tot	al/N
Analysis Batch: 10256										Prep Bate	ch: 1	1007
		MB MB										
Analyte	Re	sult Qualifier	RL		Unit		2		repared	Analyzed		Dil Fa
Benzene		ND	0.025		mg/K	-			2/24 10:39			
Ethylbenzene		ND	0.050		mg/K	-				08/13/24 19:3		
Toluono			0.050		ma/k	~	0	0/4	0/04 40.20	09/12/24 10.4	00	

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08/12/24 10:39 08/13/24 19:39

ND

Toluene

0.050

mg/Kg

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Job ID: 885-9544-1

ient: Hilcorp Energy oject/Site: Salty Dog SWD)								Job ID	: 885-9) 544-1
ethod: 8021B - Volat	ile Organic	c Compou	nds (GC)	(Conti	i nued)						
_ab Sample ID: MB 885-1	0075/1-A						Clie	ent Sam	ple ID: M		
Matrix: Solid									Prep Ty	pe: To	tal/NA
Analysis Batch: 10256									Prep E	atch:	10075
		MB MB									
Analyte		sult Qualifier	RL	_	Unit	D	P	Prepared	Analyz	zed	Dil Fac
Xylenes, Total		ND	0.10		mg/K			12/24 10:39			1
		MB MB			, , , , , , , , , , , , , , , , , , ,	.9					
Surrogate	%Reco	very Qualifier	Limits				P	Prepared	Analyz	zed	Dil Fac
4-Bromofluorobenzene (Surr)		87	48 - 145	-			08/1	12/24 10:39	08/13/24	19:39	1
Lab Sample ID: LCS 885-	10075/3-A					Clien	it Sa	mple ID:	Lab Cor	trol S	ample
Matrix: Solid									Prep Ty		-
Analysis Batch: 10256										Batch:	
Analysis Batern relet			Spike	LCS	LCS				%Rec		100.0
Analyte			Added		Qualifier	Unit	D	%Rec	Limits		
Benzene			1.00	0.841	<u>uu</u>	mg/Kg		84	70 - 130		
Ethylbenzene			1.00	0.783		mg/Kg		78	70 - 130 70 - 130		
•			2.00	1.56				78	70 - 130 70 - 130		
m&p-Xylene						mg/Kg					
o-Xylene			1.00	0.752		mg/Kg		75	70_130		
Toluene			1.00	0.791		mg/Kg		79	70 - 130		
		LCS									
Surrogate 4-Bromofluorobenzene (Surr)	89 %Recovery	Qualifier	Limits 48 - 145								
Lab Sample ID: 885-9544 Matrix: Solid Analysis Batch: 10256	Sample	Sample	Spike	MS	MS				Sample I Prep Ty Prep E %Rec	pe: To	tal/NA
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	ND		1.00	0.876		mg/Kg		88	70 - 130		
Ethylbenzene	ND		1.00	0.829		mg/Kg		83	70 - 130		
n&p-Xylene	ND		2.00	1.65		mg/Kg		81	70 - 130		
o-Xylene	ND		1.00	0.790		mg/Kg		79	70 - 130		
Toluene	ND		1.00	0.839		mg/Kg		83	70 - 130		
	MS	MS									
Surrogate			Limits								
4-Bromofluorobenzene (Surr)	84		48 - 145								
Lab Sample ID: 885-9544 Matrix: Solid	-2 MSD							Client	Sample I Prep Ty		
Analysis Batch: 10256									Prep E	-	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	-	Qualifier	Added		Qualifier	Unit	п	%Rec	Limits	RPD	Limit
Benzene	ND		0.999	0.892		mg/Kg		89	70 - 130	2	20
Ethylbenzene	ND		0.999	0.844		mg/Kg		84	70 - 100 70 - 130	2	20
•	ND		2.00	1.68				83	70 - 130 70 - 130		20 20
m&p-Xylene						mg/Kg				1	
o-Xylene Toluene	ND ND		0.999 0.999	0.810 0.852		mg/Kg mg/Kg		81 84	70 - 130 70 - 130	3 1	20 20
Toluene	ND		0.999	0.652		mg/r.g		04	10-130	1	20
		MSD									

Surrogate %Recovery Qualifier 4-Bromofluorobenzene (Surr) 86

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Limits

48 - 145

Project/Site: Salty Dog SWD

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1

1

1

Job ID: 885-9544-1

Client: Hilcorp Energy Method: 8015M/D - Diesel Range Organics (DRO) (GC) Lab Sample ID: MB 885-10121/1-A **Client Sample ID: Method Blank** Matrix: Solid Prep Type: Total/NA Analysis Batch: 10172 Prep Batch: 10121 MB MB **Result Qualifier** RL Unit D Analyzed Dil Fac Analyte Prepared 08/12/24 15:45 08/13/24 12:07 Diesel Range Organics [C10-C28] ND 10 mg/Kg Motor Oil Range Organics [C28-C40] ND 50 mg/Kg 08/12/24 15:45 08/13/24 12:07 MB MB Surrogate %Recovery Qualifier I imite Prepared Analyzed Dil Fac Di-n-octyl phthalate (Surr) 128 62 - 134 08/12/24 15:45 08/13/24 12:07 Lab Sample ID: LCS 885-10121/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid Prep Type: Total/NA Prep Batch: 10121 Analysis Batch: 10172 Spike LCS LCS %Rec Added Result Qualifier Limits Unit %Rec Analyte D 50.0 60 - 135 **Diesel Range Organics** 74.4 *+ mg/Kg 149 [C10-C28] LCS LCS Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 161 S1+ 62 - 134 Lab Sample ID: MB 885-10424/1-A **Client Sample ID: Method Blank Prep Type: Total/NA** Matrix: Solid Analysis Batch: 10409 Prep Batch: 10424 MB MB Analyte **Result Qualifier** RL Unit D Prepared Analyzed Dil Fac Diesel Range Organics [C10-C28] ND 10 mg/Kg 08/16/24 12:02 08/16/24 17:38 Motor Oil Range Organics [C28-C40] ND 50 mg/Kg 08/16/24 12:02 08/16/24 17:38 MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac Di-n-octyl phthalate (Surr) 93 62 - 134 08/16/24 12:02 08/16/24 17:38 Lab Sample ID: LCS 885-10424/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid Prep Type: Total/NA Analysis Batch: 10409 Prep Batch: 10424 Spike LCS LCS %Rec Analyte Added **Result Qualifier** Unit %Rec Limits D Diesel Range Organics 50.0 46.8 94 60 - 135 mg/Kg

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Di-n-octyl phthalate (Surr)	98		62 - 134

Lab Sample ID: MB 885-10622/1-A Matrix: Solid Analysis Batch: 10682

[C10-C28]

Analyte

Prep Type: Total/NA Prep Batch: 10622 MB MB Result Qualifier RL Unit D Prepared Analyzed Dil Fac Diesel Range Organics [C10-C28] ND 10 08/20/24 12:52 08/21/24 13:36 mg/Kg Motor Oil Range Organics [C28-C40] ND 50 mg/Kg 08/20/24 12:52 08/21/24 13:36

Client Sample ID: Method Blank

Released to Imaging: 12/26/2024 1:46:16 PM

8/31/2024

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lianti Uilaarn Erarrii		(QC Sam	pie Res	uits					05444
lient: Hilcorp Energy roject/Site: Salty Dog SWD)								Job ID: 885	-9544-1
lethod: 8015M/D - Die	esel Range	Organ	ics (DRC) (GC) (0	ontinue	d)				
Lab Sample ID: MB 885-1	10622/1-A						Client	t Samp	ole ID: Metho	d Blank
Matrix: Solid									Prep Type: 1	
Analysis Batch: 10682									Prep Batch	1: 10622
0		MB MB	1 :4 :				Dura		A	
Surrogate Di-n-octyl phthalate (Surr)	%Recov	ery Qua 95		nits - 134				pared 24 12:52	Analyzed 08/21/24 13:36	Dil Fac
			-							
Lab Sample ID: LCS 885-	-10622/2-A					Clie	nt Samp	ole ID:	Lab Control	
Matrix: Solid Analysis Batch: 10682									Prep Type: 1 Prep Batch	
Analysis Baten. 10002			Spike	LC	S LCS				%Rec	1. 10022
Analyte			Added	Resu	t Qualifier	Unit	<u>D</u> %	Rec	Limits	
Diesel Range Organics			50.0	45	8	mg/Kg		92	60 - 135	
[C10-C28]										
Surrogato	LCS %Recovery		Limits							
Surrogate Di-n-octyl phthalate (Surr)	% Recovery 95	Quaimer		_						
Lab Sample ID: MB 885-1 Matrix: Solid		omatog	iraphy				Client	t Samı	ole ID: Metho Prep Type: 1	otal/NA
Lab Sample ID: MB 885-1 Matrix: Solid	10129/1-A		jraphy				Client	t Samı		otal/NA
Lab Sample ID: MB 885-1 Matrix: Solid Analysis Batch: 10165	10129/1-A	MB MB sult Qual		RL	Unit			t Samp	Prep Type: 1	otal/NA
Lab Sample ID: MB 885-1 Matrix: Solid Analysis Batch: 10165 Analyte	10129/1-A	MB MB		RL 3.0	Unit mg/K		D Prep	bared	Prep Type: 1 Prep Batch	Total/NA 1: 10129 Dil Fac
Lab Sample ID: MB 885-1 Matrix: Solid Analysis Batch: 10165 Analyte Chloride	10129/1-A	MB MB sult Qual					D Prep 08/12/2	bared 24 17:05	Prep Type: T Prep Batch Analyzed 08/13/24 16:12	Dil Fac
Lab Sample ID: MB 885-1 Matrix: Solid Analysis Batch: 10165 Analyte Chloride Lab Sample ID: LCS 885-	10129/1-A	MB MB sult Qual					D Prep 08/12/2	bared 24 17:05	Prep Type: 1 Prep Batch Analyzed	Dil Fac 10129 Dil Fac 1 Sample
Lab Sample ID: MB 885-1 Matrix: Solid Analysis Batch: 10165 Analyte Chloride Lab Sample ID: LCS 885- Matrix: Solid	10129/1-A	MB MB sult Qual	ifier	3.0	mg/K		D Prep 08/12/2	bared 24 17:05	Prep Type: T Prep Batch Malyzed 08/13/24 16:12 Lab Control Prep Type: T Prep Batch	Total/NA 10129 Dil Fac 1 Sample Total/NA
Lab Sample ID: MB 885-1 Matrix: Solid Analysis Batch: 10165 Analyte Chloride Lab Sample ID: LCS 885- Matrix: Solid Analysis Batch: 10165	10129/1-A	MB MB sult Qual	ifier Spike	3.0 LC	mg/K	clier	D Prep 08/12/2 nt Samp	oared 24 17:05 Die ID:	Prep Type: T Prep Batch Malyzed 08/13/24 16:12 Lab Control Prep Type: T Prep Batch %Rec	Total/NA 10129 Dil Fac 1 Sample Total/NA
Lab Sample ID: MB 885-1 Matrix: Solid Analysis Batch: 10165 Analyte Chloride Lab Sample ID: LCS 885- Matrix: Solid Analysis Batch: 10165 Analyte	10129/1-A	MB MB sult Qual	ifier Spike Added	3.0 LC Resu	mg/k S LCS t Qualifier	G Clier	D Prep 08/12/2 nt Samp	bared 24 17:05 ble ID:	Prep Type: 1 Prep Batch 08/13/24 16:12 Lab Control Prep Type: 1 Prep Batch %Rec Limits	Total/NA 10129 Dil Fac 1 Sample Total/NA
Lab Sample ID: MB 885-1 Matrix: Solid Analysis Batch: 10165 Analyte Chloride Lab Sample ID: LCS 885- Matrix: Solid Analysis Batch: 10165 Analyte Chloride	10129/1-A Re: -10129/2-A	MB MB sult Qual	ifier Spike	3.0 LC	mg/k S LCS t Qualifier	clier	D Prep 08/12/2 nt Samp	5 24 17:05 50le ID: 56Rec 102	Prep Type: 1 Prep Batch 08/13/24 16:12 Lab Control Prep Type: 1 Prep Batch %Rec Limits 90 - 110	Total/NA 10129 Dil Fac 1 Sample Total/NA 1: 10129
Lab Sample ID: MB 885-1 Matrix: Solid Analysis Batch: 10165 Analyte Chloride Lab Sample ID: LCS 885- Matrix: Solid Analysis Batch: 10165 Analyte Chloride Lab Sample ID: MB 885-1	10129/1-A Re: -10129/2-A	MB MB sult Qual	ifier Spike Added	3.0 LC Resu	mg/k S LCS t Qualifier	G Clier	D Prep 08/12/2 nt Samp	5 24 17:05 50le ID: 56Rec 102	Prep Type: 1 Prep Batch 08/13/24 16:12 Lab Control Prep Type: 1 Prep Batch %Rec Limits 90 - 110	Total/NA 1: 10129 Dil Fac 1 Sample Total/NA 1: 10129 d Blank
Lab Sample ID: MB 885-1 Matrix: Solid Analysis Batch: 10165 Analyte Chloride Lab Sample ID: LCS 885- Matrix: Solid Analysis Batch: 10165 Analyte Chloride Lab Sample ID: MB 885-1 Matrix: Solid	10129/1-A Re: -10129/2-A	MB MB sult Qual	ifier Spike Added	3.0 LC Resu	mg/k S LCS t Qualifier	G Clier	D Prep 08/12/2 nt Samp	5 24 17:05 50le ID: 56Rec 102	Prep Type: 1 Prep Batch 08/13/24 16:12 Lab Control Prep Type: 1 Prep Batch %Rec Limits 90 - 110	Total/NA 1: 10129 Dil Fac 1 Sample Total/NA 1: 10129 d Blank
Lab Sample ID: MB 885-1 Matrix: Solid Analysis Batch: 10165 Analyte Chloride Lab Sample ID: LCS 885- Matrix: Solid Analysis Batch: 10165 Analyte Chloride Lab Sample ID: MB 885-1 Matrix: Solid	10129/1-A Re: -10129/2-A 	MB MB sult Qual	ifier Spike Added	3.0 LC Resu	mg/k S LCS t Qualifier	G Clier	D Prep 08/12/2 nt Samp	5 24 17:05 50le ID: 56Rec 102	Prep Type: 1 Prep Batch 08/13/24 16:12 Lab Control Prep Type: 1 Prep Batch %Rec Limits 90 - 110	Total/NA 1: 10129 Dil Fac 1 Sample Total/NA 1: 10129 d Blank
Lab Sample ID: MB 885-1 Matrix: Solid Analysis Batch: 10165 Analyte Chloride Lab Sample ID: LCS 885- Matrix: Solid Analysis Batch: 10165 Analyte Chloride Lab Sample ID: MB 885-1 Matrix: Solid Analysis Batch: 10576	10129/1-A Re: 10129/2-A 10576/12	MB MB sult Qual	ifier Spike Added 30.0	3.0 LC Resu	mg/k S LCS t Qualifier	g Clier Unit mg/Kg	D <u>Prep</u> 08/12/2 nt Samp <u>P %</u> Client	bared 24 17:05 ble ID: 6 Rec 102	Prep Type: 1 Prep Batch 08/13/24 16:12 Lab Control Prep Type: 1 Prep Batch %Rec Limits 90 - 110	Total/NA 1: 10129 Dil Fac 1 Sample Total/NA 1: 10129 d Blank
Lab Sample ID: MB 885-1 Matrix: Solid Analysis Batch: 10165 Analyte Chloride Lab Sample ID: LCS 885- Matrix: Solid Analysis Batch: 10165 Analyte Chloride Lab Sample ID: MB 885-1 Matrix: Solid Analysis Batch: 10576 Analyte	10129/1-A 	MB MB	ifier Spike Added 30.0	3.0 LC <u>Resu</u> 30	B LCS t Qualifier	g Clien Unit mg/Kg	D <u>Prep</u> 08/12/2 nt Samp <u>P %</u> Client	bared 24 17:05 ble ID: 6 Rec 102 t Sam	Prep Type: 1 Prep Batch 08/13/24 16:12 Lab Control Prep Type: 1 Prep Batch %Rec Limits 90 - 110 Die ID: Metho Prep Type: 1	Total/NA 1: 10129 Dil Fac 1 Sample Total/NA 1: 10129 d Blank Total/NA
Lab Sample ID: MB 885-1 Matrix: Solid Analysis Batch: 10165 Analyte Chloride Lab Sample ID: LCS 885- Matrix: Solid Analysis Batch: 10165 Analyte Chloride Lab Sample ID: MB 885-1 Matrix: Solid Analysis Batch: 10576 Analyte Chloride	10129/1-A 	MB MB sult Qual ND MB MB sult Qual	ifier Spike Added 30.0	3.0 LC Resu 30.	S LCS t Qualifier 7	G Clien Unit mg/Kg	D <u>Prep</u> 08/12/2 nt Samp _ <u>P %</u> Client	bared 24 17:05 ble ID: 102 t Samp bared	Prep Type: 1 Prep Batch 08/13/24 16:12 Lab Control Prep Type: 1 Prep Batch %Rec Limits 90 - 110 Die ID: Metho Prep Type: 1 Analyzed 08/14/24 11:41	Total/NA 1: 10129 Dil Fac 1 Sample Total/NA 1: 10129 d Blank Total/NA
Lab Sample ID: MB 885-1 Matrix: Solid Analysis Batch: 10165 Analyte Chloride Lab Sample ID: LCS 885- Matrix: Solid Analysis Batch: 10165 Analyte Chloride Lab Sample ID: MB 885-1 Matrix: Solid Analysis Batch: 10576 Analyte Chloride Lab Sample ID: MRL 885	10129/1-A 	MB MB sult Qual ND MB MB sult Qual	ifier Spike Added 30.0	3.0 LC Resu 30.	S LCS t Qualifier 7	G Clien Unit mg/Kg	D <u>Prep</u> 08/12/2 nt Samp _ <u>P %</u> Client	bared 24 17:05 ble ID: 102 t Samp bared	Prep Type: 1 Prep Batch 08/13/24 16:12 Lab Control Prep Type: 1 Prep Batch %Rec Limits 90 - 110 Die ID: Metho Prep Type: 1 Analyzed	Total/NA 1: 10129 Dil Fac 1 Sample Total/NA 1: 10129 d Blank Total/NA Dil Fac 1 Sample Joint Fac 1 Sample Sample Sample
Lab Sample ID: MB 885-1 Matrix: Solid Analysis Batch: 10165 Analyte Chloride Lab Sample ID: LCS 885- Matrix: Solid Analysis Batch: 10165 Analyte Chloride Lab Sample ID: MB 885-1 Matrix: Solid Analysis Batch: 10576 Analyte Chloride Lab Sample ID: MRL 885-	10129/1-A 	MB MB sult Qual ND MB MB sult Qual	ifier	3.0 LC Resu 30.	S LCS t Qualifier 7	G Clien Unit mg/Kg	D <u>Prep</u> 08/12/2 nt Samp _ <u>P %</u> Client	bared 24 17:05 ble ID: 102 t Samp bared	Prep Type: 1 Prep Batch 08/13/24 16:12 Lab Control Prep Type: 1 Prep Batch %Rec Limits 90 - 110 Die ID: Metho Prep Type: 1 Analyzed 08/14/24 11:41 Lab Control	Total/NA 1: 10129 Dil Fac 1 Sample Total/NA 1: 10129 d Blank Total/NA Dil Fac 1 Sample Joint Fac 1 Sample Sample Sample
Matrix: Solid Analysis Batch: 10165 Analyte Chloride Lab Sample ID: LCS 885- Matrix: Solid Analysis Batch: 10165 Analyte	10129/1-A 	MB MB sult Qual ND MB MB sult Qual	ifier Spike Added 30.0	3.0 LC Resu 30 0.50 MR	S LCS t Qualifier 7	G Clien Unit mg/Kg	D Prep 08/12/2 08/12/2 nt Samp D _% Client D Prep D nt Samp nt Samp	bared 24 17:05 ble ID: 102 t Samp bared	Prep Type: 1 Prep Batch 08/13/24 16:12 Lab Control Prep Type: 1 Prep Batch %Rec Limits 90 - 110 Die ID: Metho Prep Type: 1 Analyzed 08/14/24 11:41 Lab Control	Total/NA 1: 10129 Dil Fac 1 Sample Total/NA 1: 10129 d Blank Total/NA Dil Fac 1 Sample Joint Fac 1 Sample Sample Sample

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QC Association Summary

Client: Hilcorp Energy Project/Site: Salty Dog SWD

GC VOA

Prep Batch: 10075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9544-1	PH01@10'	Total/NA	Solid	5030C	
885-9544-2	PH02@4'	Total/NA	Solid	5030C	
885-9544-3	PH02@7'	Total/NA	Solid	5030C	
885-9544-4	PH02@10'	Total/NA	Solid	5030C	
885-9544-6	PH03@7'	Total/NA	Solid	5030C	
885-9544-7	PH03@10'	Total/NA	Solid	5030C	
885-9544-9	PH04@7'	Total/NA	Solid	5030C	
885-9544-10	PH04@10'	Total/NA	Solid	5030C	
MB 885-10075/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-10075/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-10075/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-9544-1 MS	PH01@10'	Total/NA	Solid	5030C	
885-9544-1 MSD	PH01@10'	Total/NA	Solid	5030C	
885-9544-2 MS	PH02@4'	Total/NA	Solid	5030C	
885-9544-2 MSD	PH02@4'	Total/NA	Solid	5030C	

Analysis Batch: 10255

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-9544-1	PH01@10'	Total/NA	Solid	8015M/D	10075
885-9544-2	PH02@4'	Total/NA	Solid	8015M/D	10075
885-9544-3	PH02@7'	Total/NA	Solid	8015M/D	10075
885-9544-4	PH02@10'	Total/NA	Solid	8015M/D	10075
885-9544-6	PH03@7'	Total/NA	Solid	8015M/D	10075
885-9544-7	PH03@10'	Total/NA	Solid	8015M/D	10075
885-9544-9	PH04@7'	Total/NA	Solid	8015M/D	10075
885-9544-10	PH04@10'	Total/NA	Solid	8015M/D	10075
MB 885-10075/1-A	Method Blank	Total/NA	Solid	8015M/D	10075
LCS 885-10075/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	10075
885-9544-1 MS	PH01@10'	Total/NA	Solid	8015M/D	10075
885-9544-1 MSD	PH01@10'	Total/NA	Solid	8015M/D	10075

Analysis Batch: 10256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9544-1	PH01@10'	Total/NA	Solid	8021B	10075
885-9544-2	PH02@4'	Total/NA	Solid	8021B	10075
885-9544-3	PH02@7'	Total/NA	Solid	8021B	10075
885-9544-4	PH02@10'	Total/NA	Solid	8021B	10075
885-9544-6	PH03@7'	Total/NA	Solid	8021B	10075
885-9544-7	PH03@10'	Total/NA	Solid	8021B	10075
885-9544-9	PH04@7'	Total/NA	Solid	8021B	10075
885-9544-10	PH04@10'	Total/NA	Solid	8021B	10075
MB 885-10075/1-A	Method Blank	Total/NA	Solid	8021B	10075
LCS 885-10075/3-A	Lab Control Sample	Total/NA	Solid	8021B	10075
885-9544-2 MS	PH02@4'	Total/NA	Solid	8021B	10075
885-9544-2 MSD	PH02@4'	Total/NA	Solid	8021B	10075

GC Semi VOA

Prep Batch: 10121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9544-1	PH01@10'	Total/NA	Solid	SHAKE	

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Job ID: 885-9544-1

QC Association Summary

Client: Hilcorp Energy Project/Site: Salty Dog SWD

GC Semi VOA (Continued)

Prep Batch: 10121 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
MB 885-10121/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-10121/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
Analysis Batch: 101	72				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9544-1	PH01@10'	Total/NA	Solid	8015M/D	10121
MB 885-10121/1-A	Method Blank	Total/NA	Solid	8015M/D	10121
LCS 885-10121/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	10121
Analysis Batch: 104	09				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9544-4	PH02@10'	Total/NA	Solid	8015M/D	10424
885-9544-10	PH04@10'	Total/NA	Solid	8015M/D	10424
MB 885-10424/1-A	Method Blank	Total/NA	Solid	8015M/D	10424
LCS 885-10424/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	10424
Prep Batch: 10424					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9544-4	PH02@10'	Total/NA	Solid	SHAKE	
885-9544-6	PH03@7'	Total/NA	Solid	SHAKE	
885-9544-7	PH03@10'	Total/NA	Solid	SHAKE	
885-9544-9	PH04@7'	Total/NA	Solid	SHAKE	
885-9544-10	PH04@10'	Total/NA	Solid	SHAKE	
MB 885-10424/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-10424/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
Prep Batch: 10525					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9544-2	PH02@4'	Total/NA	Solid	SHAKE	
Prep Batch: 10622					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9544-3	PH02@7'	Total/NA	Solid	SHAKE	
MB 885-10622/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-10622/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
Analysis Batch: 106	47				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-9544-2	PH02@4'	Total/NA	Solid	8015M/D	10525
885-9544-6	PH03@7'	Total/NA	Solid	8015M/D	10424
885-9544-7	PH03@10'	Total/NA	Solid	8015M/D	10424
885-9544-9	PH04@7'	Total/NA	Solid	8015M/D	10424
Analysis Batch: 106	82				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-9544-3	PH02@7'	Total/NA	Solid	8015M/D	10622
MB 885-10622/1-A	Method Blank	Total/NA	Solid	8015M/D	10622

Job ID: 885-9544-1

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8015M/D

Lab Control Sample

LCS 885-10622/2-A

Total/NA

Solid

Client Sample ID

PH01@10

PH02@4'

PH02@7'

PH02@10'

PH03@7'

PH03@10'

PH04@10'

PH03@10'

PH04@7'

PH04@10'

Method Blank

Lab Control Sample

Method Blank

Lab Control Sample

Client Sample ID

PH04@7'

QC Association Summary

Prep Type

Total/NA

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Matrix

Solid

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Client: Hilcorp Energy Project/Site: Salty Dog SWD

HPLC/IC

885-9544-1

885-9544-2

885-9544-3

885-9544-4

885-9544-6

885-9544-7

885-9544-9

885-9544-10

MB 885-10129/1-A

LCS 885-10129/2-A

Lab Sample ID

885-9544-1

885-9544-2

885-9544-3

885-9544-4

885-9544-7

885-9544-9

885-9544-10

MB 885-10129/1-A

LCS 885-10129/2-A

Analysis Batch: 10165

Prep Batch: 10129 Lab Sample ID

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Prep Batch

Prep Batch

10129

10129

10129

10129

10129

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10129

10129

	5

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PH01@10'	Total/NA
PH02@4'	Total/NA
PH02@7'	Total/NA
PH02@10'	Total/NA

Analysis Batch: 10576

Lab Sample ID 885-9544-6	Client Sample ID PH03@7'	Prep Type Total/NA	Matrix Solid	Method 300.0	Prep Batch 10129
MB 885-10576/12	Method Blank	Total/NA	Solid	300.0	
MRL 885-10576/11	Lab Control Sample	Total/NA	Solid	300.0	

Job ID: 885-9544-1

Method

300_Prep

300 Prep

300_Prep

300_Prep

300_Prep

300_Prep

300_Prep

300_Prep

300 Prep

300_Prep

Method

300.0

300.0

300.0

300.0

300.0

300.0

300.0

300.0

300.0

Job ID: 885-9544-1

Lab Sample ID: 885-9544-1

Matrix: Solid

8 9

Lab Sample ID: 885-9544-2

Lab Sample ID: 885-9544-3

Matrix: Solid

Matrix: Solid

Client: Hilcorp Energy Project/Site: Salty Dog SWD

Client Sample ID: PH01@10' Date Collected: 08/08/24 14:15 Date Received: 08/09/24 06:15

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			10075	AT	EET ALB	08/12/24 10:39
Total/NA	Analysis	8015M/D		1	10255	JP	EET ALB	08/13/24 20:49
Total/NA	Prep	5030C			10075	AT	EET ALB	08/12/24 10:39
Total/NA	Analysis	8021B		1	10256	JP	EET ALB	08/13/24 20:49
Total/NA	Prep	SHAKE			10121	EM	EET ALB	08/12/24 15:45
Total/NA	Analysis	8015M/D		1	10172	EM	EET ALB	08/13/24 12:29
Total/NA	Prep	300_Prep			10129	KB	EET ALB	08/12/24 17:05
Total/NA	Analysis	300.0		20	10165	RC	EET ALB	08/13/24 16:42

Client Sample ID: PH02@4'

Date Collected: 08/08/24 14:25 Date Received: 08/09/24 06:15

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			10075	AT	EET ALB	08/12/24 10:39
Total/NA	Analysis	8015M/D		1	10255	JP	EET ALB	08/13/24 21:59
Total/NA	Prep	5030C			10075	AT	EET ALB	08/12/24 10:39
Total/NA	Analysis	8021B		1	10256	JP	EET ALB	08/13/24 21:59
Total/NA	Prep	SHAKE			10525	EM	EET ALB	08/19/24 14:25
Total/NA	Analysis	8015M/D		10	10647	EM	EET ALB	08/20/24 10:27
Total/NA	Prep	300_Prep			10129	KB	EET ALB	08/12/24 17:05
Total/NA	Analysis	300.0		20	10165	RC	EET ALB	08/13/24 16:58

Client Sample ID: PH02@7'

Date Collected: 08/08/24 15:10 Date Received: 08/09/24 06:15

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			10075	AT	EET ALB	08/12/24 10:39
Total/NA	Analysis	8015M/D		1	10255	JP	EET ALB	08/13/24 23:10
Total/NA	Prep	5030C			10075	AT	EET ALB	08/12/24 10:39
Total/NA	Analysis	8021B		1	10256	JP	EET ALB	08/13/24 23:10
Total/NA	Prep	SHAKE			10622	EM	EET ALB	08/20/24 12:52
Total/NA	Analysis	8015M/D		1	10682	EM	EET ALB	08/21/24 13:57
Total/NA	Prep	300_Prep			10129	KB	EET ALB	08/12/24 17:05
Total/NA	Analysis	300.0		20	10165	RC	EET ALB	08/13/24 17:13

Client Sample ID: PH02@10' Date Collected: 08/08/24 14:35 Date Received: 08/09/24 06:15

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			10075	AT	EET ALB	08/12/24 10:39
Total/NA	Analysis	8015M/D		1	10255	JP	EET ALB	08/13/24 23:33

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Lab Sample ID: 885-9544-4

Matrix: Solid

Client Sample ID: PH02@10'

Date Collected: 08/08/24 14:35

Date Received: 08/09/24 06:15

Client: Hilcorp Energy

Project/Site: Salty Dog SWD

Job ID: 885-9544-1

Lab Sample ID: 885-9544-4

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			10075	AT	EET ALB	08/12/24 10:39
Total/NA	Analysis	8021B		1	10256	JP	EET ALB	08/13/24 23:33
Total/NA	Prep	SHAKE			10424	EM	EET ALB	08/16/24 12:02
Total/NA	Analysis	8015M/D		20	10409	DH	EET ALB	08/16/24 18:00
Total/NA	Prep	300_Prep			10129	KB	EET ALB	08/12/24 17:05
Total/NA	Analysis	300.0		20	10165	RC	EET ALB	08/13/24 17:58

Client Sample ID: PH03@7' Date Collected: 08/08/24 14:45 Date Received: 08/09/24 06:15

	Batch	Batch		Dilution	Batch			Prepared
Prep Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			10075	AT	EET ALB	08/12/24 10:39
Total/NA	Analysis	8015M/D		1	10255	JP	EET ALB	08/13/24 23:57
Total/NA	Prep	5030C			10075	AT	EET ALB	08/12/24 10:39
Total/NA	Analysis	8021B		1	10256	JP	EET ALB	08/13/24 23:57
Total/NA	Prep	SHAKE			10424	EM	EET ALB	08/16/24 12:02
Total/NA	Analysis	8015M/D		20	10647	EM	EET ALB	08/20/24 13:00
Total/NA	Prep	300_Prep			10129	KB	EET ALB	08/12/24 17:05
Total/NA	Analysis	300.0		50	10576	MA	EET ALB	08/14/24 11:04

Client Sample ID: PH03@10' Date Collected: 08/08/24 14:48 Date Received: 08/09/24 06:15

Lab Sample ID: 885-9544-7

Lab Sample ID: 885-9544-9

Lab Sample ID: 885-9544-6

Matrix: Solid

Matrix: Solid

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			10075	AT	EET ALB	08/12/24 10:39
Total/NA	Analysis	8015M/D		1	10255	JP	EET ALB	08/14/24 00:20
Total/NA	Prep	5030C			10075	AT	EET ALB	08/12/24 10:39
Total/NA	Analysis	8021B		1	10256	JP	EET ALB	08/14/24 00:20
Total/NA	Prep	SHAKE			10424	EM	EET ALB	08/16/24 12:02
Total/NA	Analysis	8015M/D		20	10647	EM	EET ALB	08/20/24 13:30
Total/NA	Prep	300_Prep			10129	KB	EET ALB	08/12/24 17:05
Total/NA	Analysis	300.0		20	10165	RC	EET ALB	08/13/24 19:29

Client Sample ID: PH04@7' Date Collected: 08/08/24 14:55 Date Received: 08/09/24 06:15

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			10075	AT	EET ALB	08/12/24 10:39
Total/NA	Analysis	8015M/D		1	10255	JP	EET ALB	08/14/24 00:43
Total/NA	Prep	5030C			10075	AT	EET ALB	08/12/24 10:39
Total/NA	Analysis	8021B		1	10256	JP	EET ALB	08/14/24 00:43

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Job ID: 885-9544-1

Project/Site: Salty Dog SWD Client Sample ID: PH04@7'

Client: Hilcorp Energy

Date Collected: 08/08/24 14:55 Date Received: 08/09/24 06:15

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	SHAKE			10424	EM	EET ALB	08/16/24 12:02
Total/NA	Analysis	8015M/D		20	10647	EM	EET ALB	08/20/24 14:01
Total/NA	Prep	300_Prep			10129	KB	EET ALB	08/12/24 17:05
Total/NA	Analysis	300.0		20	10165	RC	EET ALB	08/13/24 19:44

Client Sample ID: PH04@10' Date Collected: 08/08/24 15:00 Date Received: 08/09/24 06:15

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			10075	AT	EET ALB	08/12/24 10:39
Total/NA	Analysis	8015M/D		1	10255	JP	EET ALB	08/14/24 01:07
Total/NA	Prep	5030C			10075	AT	EET ALB	08/12/24 10:39
Total/NA	Analysis	8021B		1	10256	JP	EET ALB	08/14/24 01:07
Total/NA	Prep	SHAKE			10424	EM	EET ALB	08/16/24 12:02
Total/NA	Analysis	8015M/D		20	10409	DH	EET ALB	08/16/24 19:31
Total/NA	Prep	300_Prep			10129	KB	EET ALB	08/12/24 17:05
Total/NA	Analysis	300.0		20	10165	RC	EET ALB	08/13/24 19:59

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Lab Sample ID: 885-9544-9 Matrix: Solid

Lab Sample ID: 885-9544-10

Matrix: Solid

5 8

Eurofins Albuquerque

Accreditation/Certification Summary

Client: Hilcorp Energy Project/Site: Salty Dog SWD

8021B

8021B

8021B

Oregon

5030C

5030C

5030C

Job ID: 885-9544-1

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aboratory: Eurofi less otherwise noted, all ar			h accreditation/certification below.	
Authority	Progr	am	Identification Number	Expiration Date
ew Mexico	State		NM9425, NM0901	02-26-25
0,	s are included in this repo does not offer certificatior	, ,	not certified by the governing authori	ty. This list may ir
0,		, ,	not certified by the governing authori Analyte	ty. This list may ir
for which the agency	does not offer certificatior	j.	, , , , , , , , , , , , , , , , , , , ,	ty. This list may ir
for which the agency Analysis Method	does not offer certification Prep Method	n Matrix	Analyte	
for which the agency Analysis Method 300.0	does not offer certification Prep Method 300_Prep	n Matrix Solid	Analyte Chloride	s [C6 - C10]
for which the agency Analysis Method 300.0 8015M/D	does not offer certification Prep Method 300_Prep 5030C	n. <u>Matrix</u> Solid Solid	Analyte Chloride Gasoline Range Organics	s [C6 - C10] C10-C28]

Ethylbenzene

Xylenes, Total NM100001

02-26-25

Toluene

Solid

Solid

Solid

NELAP

Eurofins Albuquerque

	YSIS LABOR/ MUN		8710 ^{885,9544} 00			(jn	ləsq	Адг	JƏSƏ	(AC	נש ^(AO ime ofilo	 →(>> > >> > >> ><	28 28				X	×		×	×	8	×		<u>Page 88 (</u>	This serves as notice of this possibility Any sub-contracted data will be clearly notated on the analytical report.
			4901 Hawkins NE -	Tel. 505-345-3975		<u> </u>	B's MR	PC V V	ע DR 1082 11)	07 8/21 504	19) sbic 910	y 83 etho 83	(X31 08:H9 99 180 M) 80 d eHA d eHA 3 AAC	13 13 13 13			× ×	××		××	XX		×	XX	Remarks: (1) -0 -2 ja/		s possibility Any sub-contracted data
und Time:	く ー ルベ 文 Standard Rush _	lame:	Selv, Drs Said 1			lanager: f	ナガイ	shyde Censeluer com	Stuert Hy	🖌 Yes 🗇 No 🗸 👡		Cooler Temp(inducing cF): 3. 4 + 0.2 - 3.8 (°C)	<u> </u>	<u>רן</u> הרג					5		r	8		10	V Nia: 8/Date Time		
y Record		Å.	s <i>S</i> t	Pre		wkillow heh. learpican Project Manager		Level 4 (Full Validation)	Az Compliance Sampler:	nerOn fce:		Cooler Te		Type and # Type and # 1415				PH02 @0' 1435	PH03 @ 4' 1440	PH03@7' 1445	ſ	PHO4 @ 4 1450		G 10`	Retricted by.	Representation by: Represented by: CMN MATIL A MULLE	Hall Environr
Chain-of-C	Client: Hilcorio Eversy	M. Heh		Ĩ	Phone #:	email or Fax#: ~~k小	QA/QC Package:	b Standard			X EDD (Type) Exce			above Date Time Matrix	2	f 26								→	Date, Time Retingu	Time. Relia	If necessary, samples

.

Login Sample Receipt Checklist

Client: Hilcorp Energy

Login Number: 9544 List Number: 1 Creator: Casarrubias, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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List Source: Eurofins Albuquerque

Job Number: 885-9544-1

Received by OCD: 12/26/2024 10:28:59 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mitch Killough Hilcorp Energy PO BOX 4700 Farmington, New Mexico 87499 Generated 9/17/2024 4:14:28 PM

JOB DESCRIPTION

Salty Dog SWD #1

JOB NUMBER

885-11196-1

OB DE Sa JO

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Juhelle Garcia

Generated 9/17/2024 4:14:28 PM

Authorized for release by Michelle Garcia, Project Manager michelle.garcia@et.eurofinsus.com (505)345-3975

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Estimated Detection Limit (Dioxin) Limit of Detection (DoD/DOE)

Limit of Quantitation (DoD/DOE)

Method Detection Limit

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present

Presumptive

Quality Control

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Concentration (Radiochemistry)

Not Detected at the reporting limit (or MDL or EDL if shown)

Minimum Detectable Activity (Radiochemistry)

Definitions/Glossary

Client: Hilcorp Energy Project/Site: Salty Dog SWD #1 Job ID: 885-11196-1

Qual	ifiers
------	--------

DLC EDL

LOD LOQ

MCL

MDA

MDC

MDL

MPN

MQL

NC

ND

NEG

POS

PQL

PRES

QC

RER

RPD TEF

TEQ TNTC

RL

ML

Qualifiers		3
GC Semi VO	Α	
Qualifier	Qualifier Description	
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.	5
S1-	Surrogate recovery exceeds control limits, low biased.	
HPLC/IC		
Qualifier	Qualifier Description	
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.	
Glossary		8
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	9
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	

Case Narrative

Job ID: 885-11196-1

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Job ID: 885-11196-1

Eurofins Albuquerque

Job Narrative 885-11196-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 9/5/2024 7:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.3°C.

Gasoline Range Organics

No additional analytical or guality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

Method 8015D DRO: The following sample required a dilution due to the nature of the sample matrix: PH07@6' (885-11196-5). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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RL

4.8

Unit

mg/Kg

D

Prepared

09/05/24 14:21 09/11/24 12:36

Client: Hilcorp Energy Project/Site: Salty Dog SWD #1

Analyte

Client Sample ID: PH05@9' Date Collected: 09/04/24 11:12 Date Received: 09/05/24 07:35

Gasoline Range Organics [C6 - C10]

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Result Qualifier

ND



1

5

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Lab Sample ID: 885-11196-1

Analyzed

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		35 - 166			09/05/24 14:21	09/11/24 12:36	1
Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/05/24 14:21	09/11/24 12:36	
Ethylbenzene	ND		0.048	mg/Kg		09/05/24 14:21	09/11/24 12:36	
Toluene	ND		0.048	mg/Kg		09/05/24 14:21	09/11/24 12:36	
Xylenes, Total	ND		0.095	mg/Kg		09/05/24 14:21	09/11/24 12:36	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	91		48 - 145			09/05/24 14:21	09/11/24 12:36	
Method: SW846 8015M/D - Die	esel Range (Organics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Diesel Range Organics [C10-C28]	ND		9.0	mg/Kg		09/06/24 10:28	09/10/24 23:42	
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		09/06/24 10:28	09/10/24 23:42	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Di-n-octyl phthalate (Surr)	101		62 - 134			09/06/24 10:28	09/10/24 23:42	
Method: EPA 300.0 - Anions, I	lon Chroma	tography						
Method, ELA Joolo - Amona.			RL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte	Result	Quaimer		Unit			· · · · · · · · · · · · · · · · · · ·	

Client: Hilcorp Energy Project/Site: Salty Dog SWD #1

Client Sample ID: PH05@12' **Date Collected Date Received**

d:	09/04/24 11:25	
: k	09/05/24 07:35	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		09/05/24 14:21	09/11/24 13:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		35 - 166			09/05/24 14:21	09/11/24 13:46	1
Method: SW846 8021B - Volat	tile Organic	Compoun	ds (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/05/24 14:21	09/11/24 13:46	1
Ethylbenzene	ND		0.048	mg/Kg		09/05/24 14:21	09/11/24 13:46	1
Toluene	ND		0.048	mg/Kg		09/05/24 14:21	09/11/24 13:46	1
Xylenes, Total	ND		0.097	mg/Kg		09/05/24 14:21	09/11/24 13:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		48 - 145			09/05/24 14:21	09/11/24 13:46	1
Method: SW846 8015M/D - Die	esel Range (Organics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		09/06/24 10:28	09/11/24 00:06	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/06/24 10:28	09/11/24 00:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	105		62 - 134			09/06/24 10:28	09/11/24 00:06	1
Briti Golyr printalaice (Gall)								
	Ion Chroma	tography						
Method: EPA 300.0 - Anions, Analyte		tography Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

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Lab Sample ID: 885-11196-2 Matrix: Solid

Client: Hilcorp Energy Project/Site: Salty Dog SWD #1

Client Sample ID: PH07@6' Date Collected: 09/04/24 12:04 Date Received: 09/05/24 07:35

Released to 1	maging:	12/26/2024	1:46:16 P	M

E	urofins	Albuc	querque)

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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/05/24 14:21	09/11/24 14:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		35 - 166			09/05/24 14:21	09/11/24 14:57	1
Method: SW846 8021B - Volati	le Organic	Compound	ds (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/05/24 14:21	09/11/24 14:57	1
Ethylbenzene	ND		0.049	mg/Kg		09/05/24 14:21	09/11/24 14:57	1
Toluene	ND		0.049	mg/Kg		09/05/24 14:21	09/11/24 14:57	1
Xylenes, Total	ND		0.097	mg/Kg		09/05/24 14:21	09/11/24 14:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		48 - 145			09/05/24 14:21	09/11/24 14:57	1
Method: SW846 8015M/D - Die	sel Range	Organics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	430		96	mg/Kg		09/06/24 10:28	09/11/24 00:30	10
Motor Oil Range Organics [C28-C40]	880		480	mg/Kg		09/06/24 10:28	09/11/24 00:30	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			09/06/24 10:28	09/11/24 00:30	10
Method: EPA 300.0 - Anions, lo	on Chroma	tography						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1500		60	mg/Kg		09/09/24 09:17	09/09/24 17:18	20

RL

4.9

RL

0.024

0.049

0.049

0.098

Limits

48 - 145

Limits

35 - 166

Unit

Unit

mg/Kg

mg/Kg

mg/Kg

D

D

Prepared

Prepared

Prepared

Client: Hilcorp Energy Project/Site: Salty Dog SWD #1

Gasoline Range Organics [C6 - C10]

4-Bromofluorobenzene (Surr)

4-Bromofluorobenzene (Surr)

Analyte

Surrogate

Analyte

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surrogate

Client Sample ID: PH07@12' Date Collected: 09/04/24 12:14 Date Received: 09/05/24 07:35

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Method: SW846 8021B - Volatile Organic Compounds (GC)

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Result Qualifier

Result Qualifier

Qualifier

Qualifier

ND

107

ND

ND

ND

ND

90

%Recovery

%Recovery

mg/Kg mg/Kg		09/11/24 15:20 09/11/24 15:20	1 1	1
	Prepared 09/05/24 14:21	Analyzed 09/11/24 15:20	Dil Fac	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	45		10	mg/Kg		09/06/24 10:28	09/11/24 00:54	1
Motor Oil Range Organics [C28-C40]	95		50	mg/Kg		09/06/24 10:28	09/11/24 00:54	1
Surrogate Di-n-octyl phthalate (Surr)	%Recovery 103	Qualifier	Limits 62 - 134			Prepared 09/06/24 10:28	Analyzed 09/11/24 00:54	Dil Fac
Method: EPA 300.0 - Anions, I	on Chroma	tography						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1100		60	mg/Kg		09/09/24 09:17	09/09/24 17:31	20

Eurofins Albuquerque

Dil Fac

Dil Fac

Dil Fac

1

1

Job ID: 885-11196-1

Lab Sample ID: 885-11196-6 Matrix: Solid

09/05/24 14:21 09/11/24 15:20

09/05/24 14:21 09/11/24 15:20

09/05/24 14:21 09/11/24 15:20

09/05/24 14:21 09/11/24 15:20

Analyzed

Analyzed

Analyzed

RL

4.7

RL

0.023

0.047

0.047

0.093

RL 9.6

48

RL

60

Limits

Limits

62 - 134

48 - 145

Limits

35 - 166

Unit

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Unit

mg/Kg

mg/Kg

Unit

mg/Kg

mg/Kg

D

D

D

D

Prepared

09/05/24 14:21

Prepared

09/05/24 14:21

Prepared

09/05/24 14:21

09/05/24 14:21

09/05/24 14:21

09/05/24 14:21

Prepared

Prepared

09/06/24 10:28

09/06/24 10:28

Prepared

09/06/24 10:28

Prepared

09/05/24 14:21 09/11/24 15:43

09/09/24 09:17 09/09/24 17:44

Client: Hilcorp Energy Project/Site: Salty Dog SWD #1

Analyte

Surrogate

Analyte

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surrogate

Analyte

Surrogate

Analyte

Chloride

Client Sample ID: PH08@3' Date Collected: 09/04/24 12:22 Date Received: 09/05/24 07:35

Gasoline Range Organics [C6 - C10]

4-Bromofluorobenzene (Surr)

4-Bromofluorobenzene (Surr)

Di-n-octyl phthalate (Surr)

Diesel Range Organics [C10-C28]

Motor Oil Range Organics [C28-C40]

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Method: SW846 8021B - Volatile Organic Compounds (GC)

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Method: EPA 300.0 - Anions, Ion Chromatography

Result Qualifier

Result Qualifier

Qualifier

Qualifier

Qualifier

ND

105

ND

ND

ND

ND

91

18

ND

105

1100

Result Qualifier

Result Qualifier

%Recovery

%Recovery

%Recovery

Eurofins Albuquerque	

1 2 3

Matrix: Solid					
		_			
/zed	Dil Fac				
4 15:43	1				
	D'/ E				
/zed	Dil Fac				
4 15:43	1				
/zed	Dil Fac				
4 15:43	1				
4 15:43	1				
4 15:43	1				
1 15.43	1				

Dil Fac

Dil Fac

Dil Fac

Dil Fac

20

1

1

1

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Lab Sample ID: 885-11196-7

Analyzed

09/11/24 15:43

Analyzed

09/11/24 15:43

Analyzed

09/11/24 15:43

09/11/24 15:43

09/11/24 15:43

09/11/24 15:43

Analyzed

Analyzed

09/11/24 01:18

09/11/24 01:18

Analyzed

09/11/24 01:18

Analyzed

Job ID: 885-11196-1

Client: Hilcorp Energy Project/Site: Salty Dog SWD #1

Client Sample ID: PH08@6' Date Collected: 09/04/24 12:24 Date Received: 09/05/24 07:35

Released to Imaging: 12/26/2024 1:46:16 PM	Page 11 of 26
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Eurofins Albuquerque

Job ID: 885-11196-1

Lab Sample ID: 885-11196-8 Matrix: Solid

Method: SW846 8015M/D - Ga	soline Rang	ge Organic	s (GRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		09/05/24 14:21	09/11/24 16:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		35 - 166			09/05/24 14:21	09/11/24 16:07	1
	ile Organic	Compoun	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		09/05/24 14:21	09/11/24 16:07	1
Ethylbenzene	ND		0.047	mg/Kg		09/05/24 14:21	09/11/24 16:07	1
Toluene	ND		0.047	mg/Kg		09/05/24 14:21	09/11/24 16:07	1
Xylenes, Total	ND		0.093	mg/Kg		09/05/24 14:21	09/11/24 16:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 93	Qualifier	Limits 48 - 145			Prepared 09/05/24 14:21	Analyzed 09/11/24 16:07	Dil Fac
4-Bromofluorobenzene (Surr)	93		48 - 145					Dil Fac
	93 esel Range		48 - 145	Unit	D			Dil Fac
4-Bromofluorobenzene (Surr) Method: SW846 8015M/D - Die	93 esel Range	Organics (48 - 145 DRO) (GC)	<mark>Unit</mark> mg/Kg	D	09/05/24 14:21	09/11/24 16:07	1
4-Bromofluorobenzene (Surr) 	93 esel Range Result	Organics (48 - 145 DRO) (GC) RL		D	09/05/24 14:21 Prepared	09/11/24 16:07	1
4-Bromofluorobenzene (Surr) Method: SW846 8015M/D - Die Analyte Diesel Range Organics [C10-C28]	93 esel Range (Result ND	Organics (Qualifier	48 - 145 DRO) (GC) RL 9.9	mg/Kg	D	09/05/24 14:21 Prepared 09/06/24 10:28	09/11/24 16:07 Analyzed 09/11/24 01:42	1
4-Bromofluorobenzene (Surr) Method: SW846 8015M/D - Die Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	93 esel Range (Result ND ND	Organics (Qualifier	48 - 145 DRO) (GC) RL 9.9 50	mg/Kg	D	09/05/24 14:21 Prepared 09/06/24 10:28 09/06/24 10:28	09/11/24 16:07 Analyzed 09/11/24 01:42 09/11/24 01:42	1 Dil Fac 1 1
4-Bromofluorobenzene (Surr) Method: SW846 8015M/D - Die Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate	93 esel Range (Result ND ND %Recovery 109	Organics (Qualifier Qualifier	48 - 145 DRO) (GC) RL 9.9 50 Limits	mg/Kg	<u>D</u>	09/05/24 14:21 Prepared 09/06/24 10:28 09/06/24 10:28 Prepared	09/11/24 16:07 Analyzed 09/11/24 01:42 09/11/24 01:42 Analyzed	1 Dil Fac 1 1
4-Bromofluorobenzene (Surr) Method: SW846 8015M/D - Die Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	93 esel Range (Result ND ND %Recovery 109	Organics (Qualifier Qualifier	48 - 145 DRO) (GC) RL 9.9 50 Limits	mg/Kg	D	09/05/24 14:21 Prepared 09/06/24 10:28 09/06/24 10:28 Prepared	09/11/24 16:07 Analyzed 09/11/24 01:42 09/11/24 01:42 Analyzed	1 Dil Fac 1 1

Client: Hilcorp Energy Project/Site: Salty Dog SWD #1

Client Sample ID: PH08@12' Date Collected: 09/04/24 12:37 Date Received: 09/05/24 07:35

Released to Imaging: 12/26/2024 1:46:16 PM	Page 12 of 26
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Method: SW846 8015M/D - Ga Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		09/05/24 14:21	09/11/24 16:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		35 - 166			09/05/24 14:21	09/11/24 16:30	1
Method: SW846 8021B - Volat	tile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/05/24 14:21	09/11/24 16:30	1
Ethylbenzene	ND		0.048	mg/Kg		09/05/24 14:21	09/11/24 16:30	1
Toluene	ND		0.048	mg/Kg		09/05/24 14:21	09/11/24 16:30	1
Xylenes, Total	ND		0.097	mg/Kg		09/05/24 14:21	09/11/24 16:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		48 - 145			09/05/24 14:21	09/11/24 16:30	1
Method: SW846 8015M/D - Di	esel Range	Organics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		09/06/24 10:28	09/11/24 02:06	1
Matar Oil Danga Organiaa (COQ C40)	ND		48	mg/Kg		09/06/24 10:28	09/11/24 02:06	1
violor Oli Range Organics [C26-C40]								
	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate		Qualifier	Limits 62 - 134			Prepared 09/06/24 10:28	Analyzed 09/11/24 02:06	Dil Fac
Surrogate Di-n-octyl phthalate (Surr)	%Recovery 107							Dil Fac
Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Analyte	- <u>%Recovery</u> 107			Unit	D			Dil Fac

Job ID: 885-11196-1

Lab Sample ID: 885-11196-9 Matrix: Solid

RL

4.8

Limits

Limits

48 - 145

35 - 166

Client: Hilcorp Energy Project/Site: Salty Dog SWD #1

Gasoline Range Organics [C6 - C10]

4-Bromofluorobenzene (Surr)

4-Bromofluorobenzene (Surr)

Analyte

Surrogate

Analyte

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surrogate

Client Sample ID: PH01@12' Date Collected: 09/04/24 12:51 Date Received: 09/05/24 07:35

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Method: SW846 8021B - Volatile Organic Compounds (GC)

Result Qualifier

Result Qualifier

Qualifier

ND

102

ND

ND

ND

ND

%Recovery Qualifier

88

%Recovery

SC)				
RL	Unit D	Prepared	Analyzed	Dil Fac
0.024	mg/Kg	09/05/24 14:21	09/11/24 16:54	1
0.048	mg/Kg	09/05/24 14:21	09/11/24 16:54	1
0.048	mg/Kg	09/05/24 14:21	09/11/24 16:54	1
0.097	mg/Kg	09/05/24 14:21	09/11/24 16:54	1

D

Prepared

Prepared

Prepared

Unit

mg/Kg

Method: SW846 8015M/D - Die Analyte		Organics (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	35		10	mg/Kg		09/06/24 10:28	09/11/24 02:30	1
Motor Oil Range Organics [C28-C40]	140		50	mg/Kg		09/06/24 10:28	09/11/24 02:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate Di-n-octyl phthalate (Surr)	%Recovery 110	Qualifier	Limits 62 - 134			Prepared 09/06/24 10:28	Analyzed 09/11/24 02:30	Dil Fac 1
	110							Dil Fac
Di-n-octyl phthalate (Surr)	110	tography		Unit	D			Dil Fac

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Job ID: 885-11196-1

Lab Sample ID: 885-11196-10 Matrix: Solid

09/05/24 14:21 09/11/24 16:54

09/05/24 14:21 09/11/24 16:54

09/05/24 14:21 09/11/24 16:54

Analyzed

Analyzed

Analyzed

Dil Fac

Dil Fac

1

Dil Fac

Lab Sample ID: MB 885-11689/1-A

Lab Sample ID: LCS 885-11689/2-A

QC Sample Results

Client: Hilcorp Energy Project/Site: Salty Dog SWD #1

Matrix: Solid

Analyte

Surrogate

Analyte

Surrogate

Analyte

Surrogate

C10]

Matrix: Solid

C10]

Matrix: Solid

Analysis Batch: 12117

4-Bromofluorobenzene (Surr)

Analysis Batch: 12117

Gasoline Range Organics [C6 -

4-Bromofluorobenzene (Surr)

Analysis Batch: 12117

Gasoline Range Organics [C6 -

4-Bromofluorobenzene (Surr)

Lab Sample ID: 885-11196-1 MS

Gasoline Range Organics [C6 - C10]

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Job ID: 885-11196-1 Method: 8015M/D - Gasoline Range Organics (GRO) (GC) **Client Sample ID: Method Blank** Prep Type: Total/NA Prep Batch: 11689 MB MB **Result Qualifier** RL Unit D Analyzed Dil Fac Prepared 5.0 09/05/24 14:21 09/11/24 12:13 6 ND mg/Kg 1 MB MB %Recovery Qualifier Limits Prepared Analyzed Dil Fac 35 - 166 09/05/24 14:21 09/11/24 12:13 104 1 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA Prep Batch: 11689 LCS LCS %Rec Spike Added Result Qualifier Unit D %Rec Limits 25.0 25.0 mg/Kg 100 70 - 130 LCS LCS Limits %Recovery Qualifier 35 - 166 Client Sample ID: PH05@9' Prep Type: Total/NA Prep Batch: 11689 MS MS %Rec Sample Sample Spike **Result Qualifier** Added **Result Qualifier** Unit D %Rec Limits 22.7 23.6 mg/Kg 96 70 - 130 MS MS %Recovery Qualifier Limits 35 - 166 Client Sample ID: PH05@9'

Lab Sample ID: 885-11196-1 MSD Matrix: Solid

Analysis Batch: 12117									Prep E	Batch: 1	11689
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics [C6 -	ND		23.6	22.8		mg/Kg		96	70 - 130	0	20
C10]											

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	207		35 - 166

203

ND

207

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-11689/1 Matrix: Solid Analysis Batch: 12126		мв					le ID: Method Prep Type: To Prep Batch	otal/NA
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/05/24 14:21	09/11/24 12:13	1
Ethylbenzene	ND		0.050	mg/Kg		09/05/24 14:21	09/11/24 12:13	1
Toluene	ND		0.050	mg/Kg		09/05/24 14:21	09/11/24 12:13	1

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Prep Type: Total/NA

Client: Hilcorp Energy Project/Site: Salty Dog SWD #1

Lab Sample ID: MB 885-11689/1-A

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Prep Type: Total/NA

Client Sample ID: Method Blank

Matrix. Soliu										Fieh Type. I	
Analysis Batch: 12126										Prep Batch	: 11689
	I	MB MB									
Analyte	Res	ult Qualifie	r RL		Unit		D	Р	repared	Analyzed	Dil Fac
Xylenes, Total		ND	0.10)	mg/k	(g		09/0	5/24 14:21	09/11/24 12:13	1
	I	MB MB									
Surrogate	%Recov	ery Qualifie	r Limits					Р	repared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		93	48 - 145	-				09/0	5/24 14:21	09/11/24 12:13	1
Lab Sample ID: LCS 885-	-11689/3-A					Clie	ent	Sai	nple ID:	Lab Control	Sample
Matrix: Solid									•	Prep Type: T	
Analysis Batch: 12126										Prep Batch	
-			Spike	LCS	LCS					%Rec	
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits	
Benzene			1.00	0.925		mg/Kg			93	70 - 130	
Ethylbenzene			1.00	0.853		mg/Kg			85	70 - 130	
m&p-Xylene			2.00	1.72		mg/Kg			86	70 - 130	
o-Xylene			1.00	0.817		mg/Kg			82	70 - 130	
Toluene			1.00	0.874		mg/Kg			87	70 - 130	
Xylenes, Total			3.00	2.54		mg/Kg			85	70 - 130	
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	92		48 - 145								
	6-2 MS								Client S	ample ID: PH	05@12'
Matrix: Solid										Prep Type: T	otal/NA
Analysis Batch: 12126										Prep Batch	: 11689
	Sample S	Sample	Spike	MS	MS					%Rec	
Analyte	Result (Qualifier	Added	Result	Qualifier	Unit		D	%Rec	Limits	
Benzene	ND		0.969	0.859		mg/Kg			89	70 - 130	
Ethylbenzene	ND		0.969	0.799		mg/Kg			82	70 - 130	
m&p-Xylene	ND		1.94	1.62		mg/Kg			82	70 - 130	
o-Xylene	ND		0.969	0.775		mg/Kg			80	70 - 130	
Toluene	ND		0.969	0.821		mg/Kg			83	70 - 130	
Xylenes, Total	ND		2.91	2.39		mg/Kg			81	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		48 - 145

Lab Sample ID: 885-11196-2 MSD Matrix: Solid Analysis Batch: 12126

Analysis Batch: 12126									Prep E	Batch: '	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND		0.970	0.850		mg/Kg		88	70 - 130	1	20
Ethylbenzene	ND		0.970	0.790		mg/Kg		81	70 - 130	1	20
m&p-Xylene	ND		1.94	1.60		mg/Kg		81	70 - 130	1	20
o-Xylene	ND		0.970	0.749		mg/Kg		77	70 - 130	3	20
Toluene	ND		0.970	0.800		mg/Kg		81	70 - 130	3	20
Xylenes, Total	ND		2.91	2.35		mg/Kg		80	70 - 130	2	20

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Client Sample ID: PH05@12'

Prep Type: Total/NA

ient: Hilcorp Energy			QC	•						Job ID: 885-	11106 1
roject/Site: Salty Dog SWD	#1									JOD ID. 665-	11190-1
lethod: 8021B - Volatil	le Organio	c Co	ompou	nds (G	C) (Con	tinued)					
Lab Sample ID: 885-11196-	-2 MSD									ample ID: PH	
Matrix: Solid Analysis Batch: 12126										Prep Type: To Prep Batch	
	MSD	MOD								Trop Daton	. 11000
Surrogate	שטא Recovery%			Limits							
4-Bromofluorobenzene (Surr)	92	Quu		48 - 145							
lethod: 8015M/D - Dies	sel Range	or	ganics	(DRO)	(GC)						
			gamoo	(2)	(00)						
Lab Sample ID: MB 885-11 Matrix: Solid	1750/1-A							Clie		Die ID: Methoo	
Analysis Batch: 11911										Prep Type: To Prep Batch	
		МВ	МВ							Trop Daton	
Analyte			Qualifier		RL	Unit			repared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]		ND			10	mg/K	-		6/24 10:28		1
Motor Oil Range Organics [C28-C4	10]	ND			50	mg/K	g	09/0	6/24 10:28	09/10/24 22:05	1
		MB									
Surrogate	%Reco	-	Qualifier	Limi					repared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)		100		62 - 1	134			09/0	0/24 10:28	09/10/24 22:05	1
Lab Sample ID: LCS 885-1 Matrix: Solid	1750/2-A						Clie	ent Sai	mple ID:	Lab Control S Prep Type: To	otal/NA
Analysis Batch: 11911				Spike	1.05	LCS				Prep Batch %Rec	: 11750
Analyte				Added		t Qualifier	Unit	D	%Rec	Limits	
Diesel Range Organics				50.0	57.4	Į	mg/Kg		115	60 - 135	
[C10-C28]											
		LCS									
	%Recovery			Limits							
				<i>Limits</i> 62 - 134							
Di-n-octyl phthalate (Surr)	%Recovery 105	Qua	lifier	62 - 134							
Surrogate Di-n-octyl phthalate (Surr) Iethod: 300.0 - Anions	%Recovery 105 5, Ion Chro	Qua	lifier	62 - 134				Clic	ant Samr	No ID: Mothor	
Di-n-octyl phthalate (Surr) lethod: 300.0 - Anions Lab Sample ID: MB 885-11	%Recovery 105 5, Ion Chro	Qua	lifier	62 - 134				Clie		ble ID: Methoo Pren Tyne: T	
Di-n-octyl phthalate (Surr) lethod: 300.0 - Anions Lab Sample ID: MB 885-11 Matrix: Solid	%Recovery 105 5, Ion Chro	Qua	lifier	62 - 134				Clie		Prep Type: To	otal/NA
Di-n-octyl phthalate (Surr) lethod: 300.0 - Anions Lab Sample ID: MB 885-11 Matrix: Solid	%Recovery 105 5, Ion Chro	Qua	lifier	62 - 134				Clie			otal/NA
Di-n-octyl phthalate (Surr) Iethod: 300.0 - Anions Lab Sample ID: MB 885-11 Matrix: Solid Analysis Batch: 11864 Analyte	%Recovery 105 5, Ion Chro 1827/1-A	Qual oma MB esult	lifier	62 - 134	RL	Unit		<u>D</u> _P	repared	Prep Type: To Prep Batch Analyzed	otal/NA : 11827 Dil Fac
Di-n-octyl phthalate (Surr) Iethod: 300.0 - Anions Lab Sample ID: MB 885-11 Matrix: Solid Analysis Batch: 11864 Analyte	%Recovery 105 5, Ion Chro 1827/1-A	Qual oma	iifier ntograp	62 - 134	RL 3.0	<u>Unit</u> mg/K		<u>D</u> _P	-	Prep Type: To Prep Batch Analyzed	otal/NA : 11827
Di-n-octyl phthalate (Surr) Iethod: 300.0 - Anions Lab Sample ID: MB 885-11 Matrix: Solid Analysis Batch: 11864	%Recovery 105 5, Ion Chro 1827/1-A Re	Qual oma MB esult	iifier ntograp	62 - 134			g	D P 09/0	repared 9/24 09:17	Prep Type: To Prep Batch Analyzed 09/09/24 14:44 Lab Control \$	bial/NA 11827 Dil Fac 1 Sample
Di-n-octyl phthalate (Surr) Iethod: 300.0 - Anions Lab Sample ID: MB 885-11 Matrix: Solid Analysis Batch: 11864 Analyte Chloride Lab Sample ID: LCS 885-1 Matrix: Solid	%Recovery 105 5, Ion Chro 1827/1-A Re	Qual oma MB esult	iifier ntograp	62 - 134			g	D P 09/0	repared 9/24 09:17	Prep Type: To Prep Batch Analyzed 09/09/24 14:44	Dil Fac Dil Fac 1 Sample Dial/NA
Di-n-octyl phthalate (Surr) Iethod: 300.0 - Anions Lab Sample ID: MB 885-11 Matrix: Solid Analysis Batch: 11864 Analyte Chloride Lab Sample ID: LCS 885-1	<u>%Recovery</u> 105 5, Ion Chro 1827/1-A Re	Qual oma MB esult	iifier ntograp	62 - 134	3.0		g	D P 09/0	repared 9/24 09:17	Prep Type: To Prep Batch <u>Analyzed</u> 09/09/24 14:44 Lab Control S Prep Type: To	Dil Fac Dil Fac 1 Sample Dial/NA
Di-n-octyl phthalate (Surr) lethod: 300.0 - Anions Lab Sample ID: MB 885-11 Matrix: Solid Analysis Batch: 11864 Analyte Chloride Lab Sample ID: LCS 885-1 Matrix: Solid Analysis Batch: 11864 Analyte	<u>%Recovery</u> 105 5, Ion Chro 1827/1-A Re	Qual oma MB esult	iifier ntograp	62 - 134 bhy Spike Added	3.0 LC: Resul	mg/K B LCS t Qualifier	g Clie	D P 09/0	repared 9/24 09:17 mple ID: %Rec	Prep Type: To Prep Batch 09/09/24 14:44 Lab Control S Prep Type: To Prep Batch %Rec Limits	Dil Fac Dil Fac 1 Sample Dial/NA
Di-n-octyl phthalate (Surr) lethod: 300.0 - Anions Lab Sample ID: MB 885-11 Matrix: Solid Analysis Batch: 11864 Analyte Chloride Lab Sample ID: LCS 885-1 Matrix: Solid Analysis Batch: 11864	<u>%Recovery</u> 105 5, Ion Chro 1827/1-A Re	Qual oma MB esult	iifier ntograp	62 - 134 bhy Spike	3.0	mg/K B LCS t Qualifier	.g Clie	<u>₽</u> <u>₽</u> 09/0	repared 9/24 09:17 mple ID:	Prep Type: To Prep Batch <u>Analyzed</u> 09/09/24 14:44 Lab Control S Prep Type: To Prep Batch %Rec	Dil Fac Dil Fac 1 Sample Dial/NA
Di-n-octyl phthalate (Surr) lethod: 300.0 - Anions Lab Sample ID: MB 885-11 Matrix: Solid Analysis Batch: 11864 Analyte Chloride Lab Sample ID: LCS 885-1 Matrix: Solid Analysis Batch: 11864 Analyte Chloride	<u>%Recovery</u> 105 5, Ion Chro 1827/1-A Re 1827/2-A	Qual oma MB esult	iifier ntograp	62 - 134 bhy Spike Added	3.0 LC: Resul	mg/K B LCS t Qualifier	g Clie	D P 09/0	repared 9/24 09:17 mple ID: 	Prep Type: To Prep Batch 09/09/24 14:44 Lab Control S Prep Type: To Prep Batch %Rec Limits 90 - 110	Dil Fac Dil Fac 1 Sample Dial/NA 11827
Di-n-octyl phthalate (Surr) lethod: 300.0 - Anions Lab Sample ID: MB 885-11 Matrix: Solid Analysis Batch: 11864 Chloride Lab Sample ID: LCS 885-1 Matrix: Solid Analysis Batch: 11864 Chloride Lab Sample ID: 885-11196-	<u>%Recovery</u> 105 5, Ion Chro 1827/1-A Re 1827/2-A	Qual oma MB esult	iifier ntograp	62 - 134 bhy Spike Added	3.0 LC: Resul	mg/K B LCS t Qualifier	g Clie	D P 09/0	repared 9/24 09:17 mple ID: <u>%Rec</u> 104 Client S	Prep Type: To Prep Batch 09/09/24 14:44 Lab Control S Prep Type: To Prep Batch %Rec Limits	Dil Fac 1 1 Sample 0tal/NA 1 Sample 0tal/NA 11827 08@12'
Di-n-octyl phthalate (Surr) lethod: 300.0 - Anions Lab Sample ID: MB 885-11 Matrix: Solid Analysis Batch: 11864 Analyte Chloride Lab Sample ID: LCS 885-1 Matrix: Solid Analysis Batch: 11864 Analyte	<u>%Recovery</u> 105 5, Ion Chro 1827/1-A Re 1827/2-A	Qual oma MB esult	iifier ntograp	62 - 134 bhy Spike Added	3.0 LC: Resul 31.	LCS t Qualifier	g Clie	D P 09/0	repared 9/24 09:17 mple ID: <u>%Rec</u> 104 Client S	Prep Type: To Prep Batch 09/09/24 14:44 Lab Control S Prep Type: To Prep Batch %Rec Limits 90 - 110 ample ID: PH0	Dil Fac 1 1 Sample 0tal/NA 1 08@12' 0tal/NA
Di-n-octyl phthalate (Surr) lethod: 300.0 - Anions Lab Sample ID: MB 885-11 Matrix: Solid Analysis Batch: 11864 Analyte Chloride Lab Sample ID: LCS 885-1 Matrix: Solid Analysis Batch: 11864 Analyte Chloride Lab Sample ID: 885-11196- Matrix: Solid	<u>%Recovery</u> 105 5, Ion Chro 1827/1-A Re 1827/2-A	Quan OMB esult ND	lifier Itograp MB Qualifier	62 - 134 bhy Spike Added	3.0 LCS Resul 31.	mg/K B LCS t Qualifier	g Clie	<u>D</u> <u>P</u> 09/0 ent Sar D	repared 9/24 09:17 mple ID: <u>%Rec</u> 104 Client S	Prep Type: To Prep Batch 09/09/24 14:44 Lab Control S Prep Type: To Prep Batch %Rec Limits 90 - 110 ample ID: PH0 Prep Type: To	Dil Fac 1 1 Sample 0tal/NA 1 08@12' 0tal/NA

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Client: Hilcorp Energy Project/Site: Salty Dog SWD #1 Job ID: 885-11196-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

latrix: Solid nalysis Batch: 11864	Sample	Sample	Spike	MSD	MSD				Prep Ty Prep E %Rec	pe: Tot Batch: 1		
nalyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
nloride	900		30.1	931	4	mg/Kg		110	50 - 150	3	20	
												Ī
												i

Eurofins Albuquerque

QC Association Summary

Client: Hilcorp Energy Project/Site: Salty Dog SWD #1

GC VOA

Prep Batch: 11689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11196-1	PH05@9'	Total/NA	Solid	5030C	
885-11196-2	PH05@12'	Total/NA	Solid	5030C	
885-11196-5	PH07@6'	Total/NA	Solid	5030C	
885-11196-6	PH07@12'	Total/NA	Solid	5030C	
885-11196-7	PH08@3'	Total/NA	Solid	5030C	
885-11196-8	PH08@6'	Total/NA	Solid	5030C	
885-11196-9	PH08@12'	Total/NA	Solid	5030C	
885-11196-10	PH01@12'	Total/NA	Solid	5030C	
MB 885-11689/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-11689/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-11689/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-11196-1 MS	PH05@9'	Total/NA	Solid	5030C	
885-11196-1 MSD	PH05@9'	Total/NA	Solid	5030C	
885-11196-2 MS	PH05@12'	Total/NA	Solid	5030C	
885-11196-2 MSD	PH05@12'	Total/NA	Solid	5030C	

Analysis Batch: 12117

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-11196-1	PH05@9'	Total/NA	Solid	8015M/D	11689
885-11196-2	PH05@12'	Total/NA	Solid	8015M/D	11689
885-11196-5	PH07@6'	Total/NA	Solid	8015M/D	11689
885-11196-6	PH07@12'	Total/NA	Solid	8015M/D	11689
885-11196-7	PH08@3'	Total/NA	Solid	8015M/D	11689
885-11196-8	PH08@6'	Total/NA	Solid	8015M/D	11689
885-11196-9	PH08@12'	Total/NA	Solid	8015M/D	11689
885-11196-10	PH01@12'	Total/NA	Solid	8015M/D	11689
MB 885-11689/1-A	Method Blank	Total/NA	Solid	8015M/D	11689
LCS 885-11689/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	11689
885-11196-1 MS	PH05@9'	Total/NA	Solid	8015M/D	11689
885-11196-1 MSD	PH05@9'	Total/NA	Solid	8015M/D	11689

Analysis Batch: 12126

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-11196-1	PH05@9'	Total/NA	Solid	8021B	11689
885-11196-2	PH05@12'	Total/NA	Solid	8021B	11689
885-11196-5	PH07@6'	Total/NA	Solid	8021B	11689
885-11196-6	PH07@12'	Total/NA	Solid	8021B	11689
885-11196-7	PH08@3'	Total/NA	Solid	8021B	11689
885-11196-8	PH08@6'	Total/NA	Solid	8021B	11689
885-11196-9	PH08@12'	Total/NA	Solid	8021B	11689
885-11196-10	PH01@12'	Total/NA	Solid	8021B	11689
MB 885-11689/1-A	Method Blank	Total/NA	Solid	8021B	11689
LCS 885-11689/3-A	Lab Control Sample	Total/NA	Solid	8021B	11689
885-11196-2 MS	PH05@12'	Total/NA	Solid	8021B	11689
885-11196-2 MSD	PH05@12'	Total/NA	Solid	8021B	11689

GC Semi VOA

Prep Batch: 11750

Lab Sample ID	Client Sample ID	Prep Туре	Matrix	Method	Prep Batch
885-11196-1	PH05@9'	Total/NA	Solid	SHAKE	

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QC Association Summary

Client: Hilcorp Energy Project/Site: Salty Dog SWD #1

GC Semi VOA (Continued)

Prep Batch: 11750 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11196-2	PH05@12'	Total/NA	Solid	SHAKE	
885-11196-5	PH07@6'	Total/NA	Solid	SHAKE	
885-11196-6	PH07@12'	Total/NA	Solid	SHAKE	
885-11196-7	PH08@3'	Total/NA	Solid	SHAKE	
885-11196-8	PH08@6'	Total/NA	Solid	SHAKE	
885-11196-9	PH08@12'	Total/NA	Solid	SHAKE	
885-11196-10	PH01@12'	Total/NA	Solid	SHAKE	
MB 885-11750/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-11750/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 11911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11196-1	PH05@9'	Total/NA	Solid	8015M/D	11750
885-11196-2	PH05@12'	Total/NA	Solid	8015M/D	11750
885-11196-5	PH07@6'	Total/NA	Solid	8015M/D	11750
885-11196-6	PH07@12'	Total/NA	Solid	8015M/D	11750
885-11196-7	PH08@3'	Total/NA	Solid	8015M/D	11750
885-11196-8	PH08@6'	Total/NA	Solid	8015M/D	11750
885-11196-9	PH08@12'	Total/NA	Solid	8015M/D	11750
885-11196-10	PH01@12'	Total/NA	Solid	8015M/D	11750
MB 885-11750/1-A	Method Blank	Total/NA	Solid	8015M/D	11750
LCS 885-11750/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	11750

HPLC/IC

Prep Batch: 11827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11196-1	PH05@9'	Total/NA	Solid	300_Prep	
885-11196-2	PH05@12'	Total/NA	Solid	300_Prep	
885-11196-5	PH07@6'	Total/NA	Solid	300_Prep	
885-11196-6	PH07@12'	Total/NA	Solid	300_Prep	
885-11196-7	PH08@3'	Total/NA	Solid	300_Prep	
885-11196-8	PH08@6'	Total/NA	Solid	300_Prep	
885-11196-9	PH08@12'	Total/NA	Solid	300_Prep	
885-11196-10	PH01@12'	Total/NA	Solid	300_Prep	
MB 885-11827/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-11827/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-11196-9 MS	PH08@12'	Total/NA	Solid	300_Prep	
885-11196-9 MSD	PH08@12'	Total/NA	Solid	300_Prep	

Analysis Batch: 11864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11196-1	PH05@9'	Total/NA	Solid	300.0	11827
885-11196-2	PH05@12'	Total/NA	Solid	300.0	11827
885-11196-5	PH07@6'	Total/NA	Solid	300.0	11827
885-11196-6	PH07@12'	Total/NA	Solid	300.0	11827
885-11196-7	PH08@3'	Total/NA	Solid	300.0	11827
885-11196-8	PH08@6'	Total/NA	Solid	300.0	11827
885-11196-9	PH08@12'	Total/NA	Solid	300.0	11827
885-11196-10	PH01@12'	Total/NA	Solid	300.0	11827
MB 885-11827/1-A	Method Blank	Total/NA	Solid	300.0	11827

Eurofins Albuquerque

Job ID: 885-11196-1

Client: Hilcorp Energy Project/Site: Salty Dog SWD #1

HPLC/IC (Continued)

Analysis Batch: 11864 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-11827/2-A	Lab Control Sample	Total/NA	Solid	300.0	11827
885-11196-9 MS	PH08@12'	Total/NA	Solid	300.0	11827
885-11196-9 MSD	PH08@12'	Total/NA	Solid	300.0	11827

Job ID: 885-11196-1

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Job ID: 885-11196-1

Lab Sample ID: 885-11196-1

Matrix: Solid

-2 1

Lab Sample ID: 885-11196-2

Lab Sample ID: 885-11196-5

Matrix: Solid

Matrix: Solid

Client: Hilcorp Energy Project/Site: Salty Dog SWD #1

Client Sample ID: PH05@9' Date Collected: 09/04/24 11:12 Date Received: 09/05/24 07:35

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			11689	JP	EET ALB	09/05/24 14:21
Total/NA	Analysis	8015M/D		1	12117	RA	EET ALB	09/11/24 12:36
Total/NA	Prep	5030C			11689	JP	EET ALB	09/05/24 14:21
Total/NA	Analysis	8021B		1	12126	RA	EET ALB	09/11/24 12:36
Total/NA	Prep	SHAKE			11750	KR	EET ALB	09/06/24 10:28
Total/NA	Analysis	8015M/D		1	11911	KR	EET ALB	09/10/24 23:42
Total/NA	Prep	300_Prep			11827	EH	EET ALB	09/09/24 09:17
Total/NA	Analysis	300.0		20	11864	EH	EET ALB	09/09/24 16:52

Client Sample ID: PH05@12'

Date Collected: 09/04/24 11:25 Date Received: 09/05/24 07:35

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			11689	JP	EET ALB	09/05/24 14:21
Total/NA	Analysis	8015M/D		1	12117	RA	EET ALB	09/11/24 13:46
Total/NA	Prep	5030C			11689	JP	EET ALB	09/05/24 14:21
Total/NA	Analysis	8021B		1	12126	RA	EET ALB	09/11/24 13:46
Total/NA	Prep	SHAKE			11750	KR	EET ALB	09/06/24 10:28
Total/NA	Analysis	8015M/D		1	11911	KR	EET ALB	09/11/24 00:06
Total/NA	Prep	300_Prep			11827	EH	EET ALB	09/09/24 09:17
Total/NA	Analysis	300.0		20	11864	EH	EET ALB	09/09/24 17:05

Client Sample ID: PH07@6'

Date Collected: 09/04/24 12:04 Date Received: 09/05/24 07:35

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			11689	JP	EET ALB	09/05/24 14:21
Total/NA	Analysis	8015M/D		1	12117	RA	EET ALB	09/11/24 14:57
Total/NA	Prep	5030C			11689	JP	EET ALB	09/05/24 14:21
Total/NA	Analysis	8021B		1	12126	RA	EET ALB	09/11/24 14:57
Total/NA	Prep	SHAKE			11750	KR	EET ALB	09/06/24 10:28
Total/NA	Analysis	8015M/D		10	11911	KR	EET ALB	09/11/24 00:30
Total/NA	Prep	300_Prep			11827	EH	EET ALB	09/09/24 09:17
Total/NA	Analysis	300.0		20	11864	EH	EET ALB	09/09/24 17:18

Client Sample ID: PH07@12' Date Collected: 09/04/24 12:14 Date Received: 09/05/24 07:35

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			11689	JP	EET ALB	09/05/24 14:21
Total/NA	Analysis	8015M/D		1	12117	RA	EET ALB	09/11/24 15:20

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Lab Sample ID: 885-11196-6 Matrix: Solid Project/Site: Salty Dog SWD #1

Date Received: 09/05/24 07:35

Client Sample ID: PH07@12' Date Collected: 09/04/24 12:14

Client: Hilcorp Energy

Job ID: 885-11196-1

Lab Sample ID: 885-11196-6

Lab Sample ID: 885-11196-7

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			11689	JP	EET ALB	09/05/24 14:21
Total/NA	Analysis	8021B		1	12126	RA	EET ALB	09/11/24 15:20
Total/NA	Prep	SHAKE			11750	KR	EET ALB	09/06/24 10:28
Total/NA	Analysis	8015M/D		1	11911	KR	EET ALB	09/11/24 00:54
Total/NA	Prep	300_Prep			11827	EH	EET ALB	09/09/24 09:17
Total/NA	Analysis	300.0		20	11864	EH	EET ALB	09/09/24 17:31

Client Sample ID: PH08@3' Date Collected: 09/04/24 12:22 Date Received: 09/05/24 07:35

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			11689	JP	EET ALB	09/05/24 14:21
Total/NA	Analysis	8015M/D		1	12117	RA	EET ALB	09/11/24 15:43
Total/NA	Prep	5030C			11689	JP	EET ALB	09/05/24 14:21
Total/NA	Analysis	8021B		1	12126	RA	EET ALB	09/11/24 15:43
Total/NA	Prep	SHAKE			11750	KR	EET ALB	09/06/24 10:28
Total/NA	Analysis	8015M/D		1	11911	KR	EET ALB	09/11/24 01:18
Total/NA	Prep	300_Prep			11827	EH	EET ALB	09/09/24 09:17
Total/NA	Analysis	300.0		20	11864	EH	EET ALB	09/09/24 17:44

Client Sample ID: PH08@6' Date Collected: 09/04/24 12:24 Date Received: 09/05/24 07:35

Lab Sample ID: 885-11196-8

Lab Sample ID: 885-11196-9

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			11689	JP	EET ALB	09/05/24 14:21
Total/NA	Analysis	8015M/D		1	12117	RA	EET ALB	09/11/24 16:07
Total/NA	Prep	5030C			11689	JP	EET ALB	09/05/24 14:21
Total/NA	Analysis	8021B		1	12126	RA	EET ALB	09/11/24 16:07
Total/NA	Prep	SHAKE			11750	KR	EET ALB	09/06/24 10:28
Total/NA	Analysis	8015M/D		1	11911	KR	EET ALB	09/11/24 01:42
Total/NA	Prep	300_Prep			11827	EH	EET ALB	09/09/24 09:17
Total/NA	Analysis	300.0		20	11864	EH	EET ALB	09/09/24 17:56

Client Sample ID: PH08@12' Date Collected: 09/04/24 12:37 Date Received: 09/05/24 07:35

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			11689	JP	EET ALB	09/05/24 14:21
Total/NA	Analysis	8015M/D		1	12117	RA	EET ALB	09/11/24 16:30
Total/NA	Prep	5030C			11689	JP	EET ALB	09/05/24 14:21
Total/NA	Analysis	8021B		1	12126	RA	EET ALB	09/11/24 16:30

Eurofins Albuquerque

Job ID: 885-11196-1

Project/Site: Salty Dog SWD #1 Client Sample ID: PH08@12' Date Collected: 09/04/24 12:37 Date Received: 09/05/24 07:35

Client: Hilcorp Energy

Date Receive	a: 09/05/24 0	7:35						
	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	SHAKE			11750	KR	EET ALB	09/06/24 10:28
Total/NA	Analysis	8015M/D		1	11911	KR	EET ALB	09/11/24 02:06
Total/NA	Prep	300_Prep			11827	EH	EET ALB	09/09/24 09:17
Total/NA	Analysis	300.0		20	11864	EH	EET ALB	09/09/24 18:09

Client Sample ID: PH01@12' Date Collected: 09/04/24 12:51 Date Received: 09/05/24 07:35

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			11689	JP	EET ALB	09/05/24 14:21
Total/NA	Analysis	8015M/D		1	12117	RA	EET ALB	09/11/24 16:54
Total/NA	Prep	5030C			11689	JP	EET ALB	09/05/24 14:21
Total/NA	Analysis	8021B		1	12126	RA	EET ALB	09/11/24 16:54
Total/NA	Prep	SHAKE			11750	KR	EET ALB	09/06/24 10:28
Total/NA	Analysis	8015M/D		1	11911	KR	EET ALB	09/11/24 02:30
Total/NA	Prep	300_Prep			11827	EH	EET ALB	09/09/24 09:17
Total/NA	Analysis	300.0		20	11864	EH	EET ALB	09/09/24 19:14

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Lab Sample ID: 885-11196-9 Matrix: Solid

Lab Sample ID: 885-11196-10

Matrix: Solid

5 8

Eurofins Albuquerque

Accreditation/Certification Summary

Client: Hilcorp Energy Project/Site: Salty Dog SWD #1 Job ID: 885-11196-1

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Laboratory:	Eurofins	Albuquerque
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Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Progr	am	Identification Number	Expiration Date
New Mexico	State		NM9425, NM0901	02-26-25
0,	are included in this repo loes not offer certificatior	, ,	not certified by the governing author	ity. This list may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
300.0	300_Prep	Solid	Chloride	
8015M/D	5030C	Solid	Gasoline Range Organic	s [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organic	s [C28-C40]
8021B	5030C	Solid	Benzene	
8021B	5030C	Solid	Ethylbenzene	
8021B	5030C	Solid	Toluene	
8021B	5030C	Solid	Xylenes, Total	
Dregon	NELA	D	NM100001	02-26-25

Eurofins Albuquerque

<i>Received by OCD: 12/26/202</i>	4 10:28:59 AM	Page 114 of 221
NT NT NT NT 11196 COC 07	PIOH XX	2 analytical report.
 HALL ENVIRONM HALL ENVIRONM ANALYSIS LABOR ANALYSIS LABOR ANALYSIS LABOR ANALYSIS LABOR ANALYSIS LABOR ANALYSIS LABOR Analysis Request 	A BTEX/ MTBE/IMB (8021) A P A BTEX/ A P A P A P A P A P A P A P A P B B A P B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B	M M
Turn-Around Time: Valandard Rush Project Name: Solfy Dos SWD #1 Project #:	Project Manager: Stuart Hyde Shyde @ Onsultan, com Sampler: Zach Mydrs On Ice: @Yes No churds # of Coolers: 1 Cooler Temp(Instuding cF): 4,4,0.1: 4,3 (°C) Cooler Temp(Instuding cF): 4,4,0.1: 4,3 (°C) Type and # Type HoZ for Cool I I Yoz cool I I Yoz cool I I Yoz for Cool I I Yo	Via: Via: Counter Via: Counter Via: Counter Date Time Via: Counter Date Time Via: Counter Parte Time
Client: Hiloge Ah. Mitch Kiloge Mailing Address:	il or Fax#: Mk: Ilough & hilough & com tandard = Level 4 (Full Validation) editation: = Az Compliance ELAC = Other DD (Type) Time Matrix Sample Name III2 Soil PHOS & A III2 Soil PHOS & 2 II22 PHOS & 2 I224 PHOS & 3 PHOS & 3 P	PHOL PHOL PHOL Date: Time: Relinquished by: Parte: Time: Relinquished by: Received by: Received by: PHOL Contracted by: Received by: Received by: If necessary, samples submitted to Hall Environmental may be subcontracted to other acc

Login Sample Receipt Checklist

Client: Hilcorp Energy

Login Number: 11196 List Number: 1 Creator: Casarrubias, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 885-11196-1

List Source: Eurofins Albuquerque

Received by OCD: 12/26/2024 10:28:59 AM



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mitch Killough Hilcorp Energy PO BOX 4700 Farmington, New Mexico 87499 Generated 10/2/2024 4:35:21 PM

JOB DESCRIPTION

Salty Dog SWD #1

JOB NUMBER

885-12212-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Juhelle Garcia Authorized for release by

Michelle Garcia, Project Manager michelle.garcia@et.eurofinsus.com

(505)345-3975

Generated 10/2/2024 4:35:21 PM

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Definitions/Glossary

	Definitions/Glossary	
Client: Hilcorp E		: 885-12212-1
Project/Site: Sa	alty Dog SWD #1	
Qualifiers		
GC VOA		,
Qualifier	Qualifier Description	
S1+	Surrogate recovery exceeds control limits, high biased.	
GC Semi VOA	ι.	
Qualifier	Qualifier Description	
2	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a	
- <i>.</i>	dilution may be flagged with a D.	
S1-	Surrogate recovery exceeds control limits, low biased.	
HPLC/IC		
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	1
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL LOD	Estimated Detection Limit (Dioxin) Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	
TNTC	Too Numerous To Count	

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Case Narrative

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Client: Hilcorp Energy Project: Salty Dog SWD #1

Job ID: 885-12212-1

Eurofins Albuquerque

Job Narrative 885-12212-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 9/20/2024 7:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.7°C.

Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

Method 8015D DRO: The following sample was diluted due to the nature of the sample matrix: PH09@3' (885-12212-3). Elevated reporting limits (RLs) are provided.

Method 8015D DRO: The following sample required a dilution due to the nature of the sample matrix: PH09@3' (885-12212-3). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_OF_28D_PREC: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 885-12959 and analytical batch 885-13028 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque

Job ID: 885-12212-1

Lab Sample ID: 885-12212-1

Matrix: Solid

Date Collected: 09/19/24 10:15	
Date Received: 09/20/24 07:15	

Client Sample ID: PH07@15'

Project/Site: Salty Dog SWD #1

Client: Hilcorp Energy

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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		09/20/24 14:22	09/24/24 03:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		35 - 166			09/20/24 14:22	09/24/24 03:21	1
Method: SW846 8021B - Volatile C	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/20/24 14:22	09/24/24 03:21	1
Ethylbenzene	ND		0.050	mg/Kg		09/20/24 14:22	09/24/24 03:21	1
Toluene	ND		0.050	mg/Kg		09/20/24 14:22	09/24/24 03:21	1
Xylenes, Total	ND		0.10	mg/Kg		09/20/24 14:22	09/24/24 03:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		48 - 145			09/20/24 14:22	09/24/24 03:21	1
Method: SW846 8015M/D - Diesel	Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	31		10	mg/Kg		09/24/24 07:58	09/25/24 13:13	1
Motor Oil Range Organics [C28-C40]	61		50	mg/Kg		09/24/24 07:58	09/25/24 13:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	83		62 - 134			09/24/24 07:58	09/25/24 13:13	1
Method: EPA 300.0 - Anions, Ion (Chromatograp	ohy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	860		61	mg/Kg		09/24/24 19:04	09/25/24 14:22	20

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Project/Site: Salty Dog SWD #1

Client Sample ID: PH07@18'

Date Collected: 09/19/24 10:20 Date Received: 09/20/24 07:15

Method: SW846 8015M/D - Gaso	ine Range Org	anics (GRC	0) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/20/24 14:22	09/24/24 03:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		35 - 166			09/20/24 14:22	09/24/24 03:45	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/20/24 14:22	09/24/24 03:45	1
Ethylbenzene	ND		0.049	mg/Kg		09/20/24 14:22	09/24/24 03:45	1
Toluene	ND		0.049	mg/Kg		09/20/24 14:22	09/24/24 03:45	1
Xylenes, Total	ND		0.098	mg/Kg		09/20/24 14:22	09/24/24 03:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		48 - 145			09/20/24 14:22	09/24/24 03:45	1
Method: SW846 8015M/D - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		09/24/24 07:58	09/25/24 13:25	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		09/24/24 07:58	09/25/24 13:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	82		62 - 134			09/24/24 07:58	09/25/24 13:25	1
- Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	780		60	mg/Kg		09/24/24 19:04	09/25/24 14:35	20

Matrix: Solid

Job ID: 885-12212-1

Lab Sample ID: 885-12212-2

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Released to Imaging: 12/26/2024 1:46:16 PM

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Job ID: 885-12212-1

Lab Sample ID: 885-12212-3 Matrix: Solid

Date Collected: 09/19/24 10:24 Date Received: 09/20/24 07:15

Project/Site: Salty Dog SWD #1

Client Sample ID: PH09@3'

Client: Hilcorp Energy

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		09/23/24 11:46	09/25/24 13:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		35 - 166			09/23/24 11:46	09/25/24 13:00	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/23/24 11:46	09/25/24 13:00	1
Ethylbenzene	ND		0.048	mg/Kg		09/23/24 11:46	09/25/24 13:00	1
Toluene	ND		0.048	mg/Kg		09/23/24 11:46	09/25/24 13:00	1
Xylenes, Total	ND		0.097	mg/Kg		09/23/24 11:46	09/25/24 13:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		48 - 145			09/23/24 11:46	09/25/24 13:00	1
Method: SW846 8015M/D - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	150		97	mg/Kg		09/24/24 07:58	09/25/24 13:37	10
Motor Oil Range Organics [C28-C40]	ND	D	490	mg/Kg		09/24/24 07:58	09/25/24 13:37	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	D S1-	62 - 134			09/24/24 07:58	09/25/24 13:37	10
	Chromatograp	ohy						
Method: EPA 300.0 - Anions, Ion Analyte	• •	o <mark>hy</mark> Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

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Job ID: 885-12212-1

Lab Sample ID: 885-12212-4 Matrix: Solid

Date Collected: 09/19/24 10:33 Date Received: 09/20/24 07:15

Project/Site: Salty Dog SWD #1

Client Sample ID: PH09@12'

Client: Hilcorp Energy

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		09/23/24 11:46	09/25/24 13:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		35 - 166			09/23/24 11:46	09/25/24 13:22	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/23/24 11:46	09/25/24 13:22	1
Ethylbenzene	ND		0.048	mg/Kg		09/23/24 11:46	09/25/24 13:22	1
Toluene	ND		0.048	mg/Kg		09/23/24 11:46	09/25/24 13:22	1
Xylenes, Total	ND		0.096	mg/Kg		09/23/24 11:46	09/25/24 13:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		48 - 145			09/23/24 11:46	09/25/24 13:22	1
Method: SW846 8015M/D - Diese	l Range Organ	ics (DRO) (GC)					
		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte							09/25/24 14:01	
•	ND		9.9	mg/Kg		09/24/24 07:58	09/20/24 14.01	1
Diesel Range Organics [C10-C28]			9.9 50	mg/Kg mg/Kg		09/24/24 07:58 09/24/24 07:58	09/25/24 14:01	1
Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	ND	Qualifier		0 0				1
Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate	ND ND	Qualifier	50	0 0		09/24/24 07:58	09/25/24 14:01	1
Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	ND ND %Recovery 93		50 Limits	0 0		09/24/24 07:58 Prepared	09/25/24 14:01 Analyzed	1 Dil Fac
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Ion Analyte	ND ND <u>%Recovery</u> 93 Chromatograp		50 Limits	0 0	D	09/24/24 07:58 Prepared	09/25/24 14:01 Analyzed	1 Dil Fac

Job ID: 885-12212-1

Matrix: Solid

Lab Sample ID: 885-12212-5

Client Sample ID: PH10@3'

Date Collected: 09/19/24 10:40 Date Received: 09/20/24 07:15

Project/Site: Salty Dog SWD #1

Client: Hilcorp Energy

	line Range Org							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		09/23/24 11:46	09/25/24 13:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			35 - 166			09/23/24 11:46	09/25/24 13:44	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/23/24 11:46	09/25/24 13:44	1
Ethylbenzene	ND		0.048	mg/Kg		09/23/24 11:46	09/25/24 13:44	1
Toluene	ND		0.048	mg/Kg		09/23/24 11:46	09/25/24 13:44	1
Xylenes, Total	ND		0.095	mg/Kg		09/23/24 11:46	09/25/24 13:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		48 - 145			09/23/24 11:46	09/25/24 13:44	1
Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Discol Bango Organico (C40 C29)	92		10	mg/Kg		09/24/24 07:58	09/26/24 15:31	1
Dieser Range Organics [C10-C28]						09/24/24 07:58	09/26/24 15:31	
Diesel Range Organics [C10-C28] Motor Oil Range Organics	410		50	mg/Kg		09/24/24 07.30	03/20/24 13:31	1
Motor Oil Range Organics	410		50	mg/Kg		09/24/24 07.30	03/20/24 13:31	1
Motor Oil Range Organics	410 %Recovery	Qualifier	50 Limits	mg/Kg		Prepared	Analyzed	1 Dil Fac
Motor Oil Range Organics [C28-C40] Surrogate		Qualifier		mg/Kg				
Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	%Recovery 95		Limits	mg/Kg		Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C28-C40]	%Recovery 95 Chromatograp		Limits	mg/Kg Unit	D	Prepared	Analyzed	Dil Fac

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Job ID: 885-12212-1

Lab Sample ID: 885-12212-6 Matrix: Solid

Date Collected: 09/19/24 10:48 Date Received: 09/20/24 07:15

Project/Site: Salty Dog SWD #1

Client Sample ID: PH10@12'

Client: Hilcorp Energy

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		09/23/24 11:46	09/25/24 14:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		35 - 166			09/23/24 11:46	09/25/24 14:05	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		09/23/24 11:46	09/25/24 14:05	1
Ethylbenzene	ND		0.047	mg/Kg		09/23/24 11:46	09/25/24 14:05	1
Toluene	ND		0.047	mg/Kg		09/23/24 11:46	09/25/24 14:05	1
Xylenes, Total	ND		0.093	mg/Kg		09/23/24 11:46	09/25/24 14:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		48 - 145			09/23/24 11:46	09/25/24 14:05	1
Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (GC)					
	• •	<mark>ics (DRO) (</mark> Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	• •		· ·	<mark>Unit</mark> mg/Kg	D	Prepared 09/24/24 07:58	Analyzed	Dil Fac
Analyte Diesel Range Organics [C10-C28]	Result				<u> </u>			
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	_ ResultND	Qualifier		mg/Kg	<u> </u>	09/24/24 07:58	09/25/24 14:38	1
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate	Result	Qualifier	RL 9.8 49	mg/Kg	<u> </u>	09/24/24 07:58 09/24/24 07:58	09/25/24 14:38 09/25/24 14:38	1 1 Dil Fac
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	Result ND ND %Recovery 88	Qualifier		mg/Kg	<u>D</u>	09/24/24 07:58 09/24/24 07:58 Prepared	09/25/24 14:38 09/25/24 14:38 Analyzed	1 1 Dil Fac
Method: SW846 8015M/D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Ion Analyte	Result ND ND <i>%Recovery</i> 88 Chromatograp	Qualifier		mg/Kg	<u>D</u>	09/24/24 07:58 09/24/24 07:58 Prepared	09/25/24 14:38 09/25/24 14:38 Analyzed	1

Job ID: 885-12212-1

Lab Sample ID: 885-12212-7 Matrix: Solid

Date Collected: 09/19/24 09:56 Date Received: 09/20/24 07:15

Project/Site: Salty Dog SWD #1

Client Sample ID: PH11@3'

Client: Hilcorp Energy

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		09/23/24 11:46	09/25/24 14:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		35 - 166			09/23/24 11:46	09/25/24 14:27	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/23/24 11:46	09/25/24 14:27	1
Ethylbenzene	ND		0.047	mg/Kg		09/23/24 11:46	09/25/24 14:27	1
Toluene	ND		0.047	mg/Kg		09/23/24 11:46	09/25/24 14:27	1
Xylenes, Total	ND		0.095	mg/Kg		09/23/24 11:46	09/25/24 14:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			48 - 145			09/23/24 11:46		
			40 - 145			03/23/24 11.40	09/25/24 14:27	1
Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (09/23/24 11.40	09/25/24 14:27	1
	· · ·	<mark>ics (DRO) ((</mark> Qualifier		Unit	D	Prepared	09/25/24 14:27 Analyzed	Dil Fac
Analyte	· · ·		GC)	<mark>Unit</mark>	<u>D</u>			Dil Fac
Analyte Diesel Range Organics [C10-C28]	Result		GC) RL		<u>D</u>	Prepared	Analyzed	
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	_ ResultND	Qualifier	GC)	mg/Kg	<u> </u>	Prepared 09/24/24 09:27	Analyzed 09/25/24 16:50	
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate	ResultND	Qualifier	GC) <u> RL</u> 9.9 49	mg/Kg	<u> </u>	Prepared 09/24/24 09:27 09/24/24 09:27	Analyzed 09/25/24 16:50 09/25/24 16:50	Dil Fa
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	Result ND ND %Recovery 88	Qualifier	GC) <u>RL</u> 9.9 49 Limits	mg/Kg	<u> </u>	Prepared 09/24/24 09:27 09/24/24 09:27 Prepared	Analyzed 09/25/24 16:50 09/25/24 16:50 Analyzed	Dil Fa
Method: SW846 8015M/D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Ion Analyte	Result ND ND %Recovery 88 Chromatograp	Qualifier	GC) <u>RL</u> 9.9 49 Limits	mg/Kg	<u>D</u>	Prepared 09/24/24 09:27 09/24/24 09:27 Prepared	Analyzed 09/25/24 16:50 09/25/24 16:50 Analyzed	1

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Job ID: 885-12212-1

Lab Sample ID: 885-12212-8 Matrix: Solid

Client Sample ID: PH11@6' Date Collected: 09/19/24 09:59 Date Received: 09/20/24 07:15

Project/Site: Salty Dog SWD #1

Client: Hilcorp Energy

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/23/24 11:46	09/25/24 14:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		35 - 166			09/23/24 11:46	09/25/24 14:49	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/23/24 11:46	09/25/24 14:49	1
Ethylbenzene	ND		0.049	mg/Kg		09/23/24 11:46	09/25/24 14:49	1
Toluene	ND		0.049	mg/Kg		09/23/24 11:46	09/25/24 14:49	1
Xylenes, Total	ND		0.099	mg/Kg		09/23/24 11:46	09/25/24 14:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		48 - 145			09/23/24 11:46	09/25/24 14:49	1
Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		09/24/24 09:27	09/25/24 17:02	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/24/24 09:27	09/25/24 17:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	90		62 - 134			09/24/24 09:27	09/25/24 17:02	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Project/Site: Salty Dog SWD #1

Client Sample ID: PH11@12'

Date Collected: 09/19/24 10:05 Date Received: 09/20/24 07:15

Method: SW846 8015M/D - Gasol	ine Range Org	anics (GRC	0) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/23/24 11:46	09/25/24 15:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		35 - 166			09/23/24 11:46	09/25/24 15:11	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/23/24 11:46	09/25/24 15:11	1
Ethylbenzene	ND		0.049	mg/Kg		09/23/24 11:46	09/25/24 15:11	1
Toluene	ND		0.049	mg/Kg		09/23/24 11:46	09/25/24 15:11	1
Xylenes, Total	ND		0.097	mg/Kg		09/23/24 11:46	09/25/24 15:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		48 - 145			09/23/24 11:46	09/25/24 15:11	1
Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		09/24/24 09:27	09/25/24 17:14	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		09/24/24 09:27	09/25/24 17:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			09/24/24 09:27	09/25/24 17:14	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	530		60	mg/Kg		09/24/24 19:25	09/25/24 11:32	20

Matrix: Solid

5

Job ID: 885-12212-1

Lab Sample ID: 885-12212-9

Released to Imaging: 12/26/2024 1:46:16 PM

Job ID: 885-12212-1

Client: Hilcorp Energy Project/Site: Salty Dog SWD #1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-12663/	1- A							Client Sa	ample ID: Metho	od Blank
Matrix: Solid									Prep Type:	Total/NA
Analysis Batch: 12849									Prep Batc	h: 12663
	M	В МВ								
Analyte	Resu	t Qualifier			Unit		D P	repared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	N)	5.0		mg/Kg	9	09/2	0/24 14:22	09/23/24 17:56	
	М	3 <i>MB</i>								
Surrogate	%Recover	y Qualifier	Limits				Pi	repared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	10.	2	35 - 166				09/2	0/24 14:22	09/23/24 17:56	
Lab Sample ID: LCS 885-12663	/ 2-A						Client	Sample	ID: Lab Control	Sample
Matrix: Solid							onom	oumpio	Prep Type:	
Analysis Batch: 12849									Prep Batcl	
			Spike	LCS	LCS				%Rec	
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics [C6 - C10]			25.0	25.3		mg/Kg		101	70 - 130	
	LCS LC	S								
	%Recovery Qu	alifier	Limits							
Surrogate	mecovery Qu									
4-Bromofluorobenzene (Surr) Lab Sample ID: MB 885-12766/ Matrix: Solid	212		35 - 166					Client Sa	mple ID: Metho Prep Type: ` Prep Bato	Total/N/
Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: MB 885-12766/ Matrix: Solid Analysis Batch: 13001	212 1-A	3 MB	35 - 166					Client Sa		Total/N/
4-Bromofluorobenzene (Surr) Lab Sample ID: MB 885-12766/ Matrix: Solid Analysis Batch: 13001 Analyte	212 1-A		RL		Unit			Client Sa	Prep Type:	Total/N/ h: 12760
4-Bromofluorobenzene (Surr) Lab Sample ID: MB 885-12766/ Matrix: Solid	212 1-A 	3 MB t Qualifier			<mark>Unit</mark> mg/Kg	9	<u>D</u> P		Prep Type: Prep Batc	Total/N/ h: 12760 Dil Fa
4-Bromofluorobenzene (Surr) Lab Sample ID: MB 885-12766/ Matrix: Solid Analysis Batch: 13001 Analyte Gasoline Range Organics [C6 - C10]	212 1-A 	3 MB t Qualifier				9	D Pr 09/2	repared 3/24 11:46	Prep Type: Prep Batch Analyzed 09/25/24 03:56	Total/N/ h: 12766 Dil Fac
4-Bromofluorobenzene (Surr) Lab Sample ID: MB 885-12766/ Matrix: Solid Analysis Batch: 13001 Analyte	212 1-A 	3 MB t Qualifier 3 MB y Qualifier	RL]	D Pi 09/2	repared	Prep Type: Prep Batc	Total/NA
4-Bromofluorobenzene (Surr) Lab Sample ID: MB 885-12766/ Matrix: Solid Analysis Batch: 13001 Analyte Gasoline Range Organics [C6 - C10] Surrogate 4-Bromofluorobenzene (Surr)	212 1-A Mi Resul NI Mi %Recover 10	3 MB t Qualifier 3 MB y Qualifier	RL 5.0 Limits			3	D Pr 09/2 	repared 3/24 11:46 repared 3/24 11:46	Analyzed 09/25/24 03:56 Analyzed 09/25/24 03:56	Total/N/ h: 1276(Dil Fac
4-Bromofluorobenzene (Surr) Lab Sample ID: MB 885-12766/ Matrix: Solid Analysis Batch: 13001 Analyte Gasoline Range Organics [C6 - C10] Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-12766	212 1-A Mi Resul NI Mi %Recover 10	3 MB t Qualifier 3 MB y Qualifier	RL 5.0 Limits]	D Pr 09/2 	repared 3/24 11:46 repared 3/24 11:46	Prep Type: Prep Batcl 09/25/24 03:56 <u>Analyzed</u> 09/25/24 03:56 ID: Lab Control	Total/N/ h: 1276 Dil Fa Dil Fa Sample
4-Bromofluorobenzene (Surr) Lab Sample ID: MB 885-12766/ Matrix: Solid Analysis Batch: 13001 Analyte Gasoline Range Organics [C6 - C10] Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-12766 Matrix: Solid	212 1-A Mi Resul NI Mi %Recover 10	3 MB t Qualifier 3 MB y Qualifier	RL 5.0 Limits				D Pr 09/2 	repared 3/24 11:46 repared 3/24 11:46	Analyzed 09/25/24 03:56 Analyzed 09/25/24 03:56 ID: Lab Control Prep Type:	Total/NA h: 12760 Dil Fa Dil Fa Dil Fa
4-Bromofluorobenzene (Surr) Lab Sample ID: MB 885-12766/ Matrix: Solid Analysis Batch: 13001 Analyte Gasoline Range Organics [C6 - C10] Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-12766	212 1-A Mi Resul NI Mi %Recover 10	3 MB t Qualifier 3 MB y Qualifier	RL 5.0 		mg/K]	D Pr 09/2 	repared 3/24 11:46 repared 3/24 11:46	Prep Type: Prep Batch 09/25/24 03:56 Analyzed 09/25/24 03:56 09/25/24 03:56 D: Lab Control Prep Type: Prep Batch	Total/NA h: 12760 Dil Fa Dil Fa Dil Fa
4-Bromofluorobenzene (Surr) Lab Sample ID: MB 885-12766/ Matrix: Solid Analysis Batch: 13001 Analyte Gasoline Range Organics [C6 - C10] Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-12766 Matrix: Solid Analysis Batch: 13001	212 1-A Mi Resul NI Mi %Recover 10	3 MB t Qualifier 3 MB y Qualifier	RL 5.0 <i>Limits</i> 35 - 166 Spike		LCS	-	D Pr 09/2 	repared 3/24 11:46 repared 3/24 11:46 Sample	Prep Type: Prep Batch 09/25/24 03:56 Analyzed 09/25/24 03:56 09/25/24 03:56 ID: Lab Control Prep Type: Prep Batch %Rec	Total/NA h: 12760 Dil Fa Dil Fa Dil Fa
4-Bromofluorobenzene (Surr) Lab Sample ID: MB 885-12766/ Matrix: Solid Analysis Batch: 13001 Analyte Gasoline Range Organics [C6 - C10] Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-12766 Matrix: Solid	212 1-A Mi Resul NI Mi %Recover 10	3 MB t Qualifier 3 MB y Qualifier	RL 5.0 		mg/K	g Unit mg/Kg	D Pr 09/2 - Pr 09/2 Client	repared 3/24 11:46 repared 3/24 11:46	Prep Type: Prep Batch 09/25/24 03:56 Analyzed 09/25/24 03:56 09/25/24 03:56 D: Lab Control Prep Type: Prep Batch	Total/NA h: 12760 Dil Fa Dil Fa Dil Fa
4-Bromofluorobenzene (Surr) Lab Sample ID: MB 885-12766/ Matrix: Solid Analysis Batch: 13001 Analyte Gasoline Range Organics [C6 - C10] Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-12766 Matrix: Solid Analysis Batch: 13001 Analyte Gasoline Range Organics [C6 -	212 1-A Mi Resul NI <i>%Recover</i> 10 <i>i/2-A</i>	3 MB t Qualifier 3 MB y Qualifier 9	RL 5.0 Limits 35 - 166 Spike Added	Result	LCS	Unit	D Pr 09/2 - Pr 09/2 Client	repared 3/24 11:46 repared 3/24 11:46 Sample	Prep Type: Prep Batch 09/25/24 03:56 Analyzed 09/25/24 03:56 D9/25/24 03:56 D9/25/24 D9/25/24 D9/25/24 D9/25/24 D9/25/24 D9/25/24 D9/25/24 D9/25/24 D9/25/2	Total/NA h: 12760 Dil Fa Dil Fa Dil Fa
4-Bromofluorobenzene (Surr) Lab Sample ID: MB 885-12766/ Matrix: Solid Analysis Batch: 13001 Analyte Gasoline Range Organics [C6 - C10] Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-12766 Matrix: Solid Analysis Batch: 13001 Analyte Gasoline Range Organics [C6 - C10]	212 1-A Mi Resul NI %Recover 10 5/2-A LCS LC	3 MB t Qualifier 3 MB y Qualifier 9	RL 5.0 <u>Limits</u> 35 - 166 Spike Added 25.0	Result	LCS	Unit	D Pr 09/2 - Pr 09/2 Client	repared 3/24 11:46 repared 3/24 11:46 Sample	Prep Type: Prep Batch 09/25/24 03:56 Analyzed 09/25/24 03:56 D9/25/24 03:56 D9/25/24 D9/25/24 D9/25/24 D9/25/24 D9/25/24 D9/25/24 D9/25/24 D9/25/24 D9/25/2	Total/NA h: 12760 Dil Fa Dil Fa Dil Fa
4-Bromofluorobenzene (Surr) Lab Sample ID: MB 885-12766/ Matrix: Solid Analysis Batch: 13001 Analyte Gasoline Range Organics [C6 - C10] Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-12766 Matrix: Solid Analysis Batch: 13001 Analyte Gasoline Range Organics [C6 -	212 1-A Mi Resul NI <i>%Recover</i> 10 <i>i/2-A</i>	3 MB t Qualifier 3 <i>MB</i> y Qualifier 9 S alifier	RL 5.0 Limits 35 - 166 Spike Added	Result	LCS	Unit	D Pr 09/2 - Pr 09/2 Client	repared 3/24 11:46 repared 3/24 11:46 Sample	Prep Type: Prep Batch 09/25/24 03:56 Analyzed 09/25/24 03:56 D9/25/24 03:56 D9/25/24 D9/25/24 D9/25/24 D9/25/24 D9/25/24 D9/25/24 D9/25/24 D9/25/24 D9/25/2	Total/NA h: 12760 Dil Fa Dil Fa Dil Fa

Lab Sample ID: MB 885-12663/1-A						Client Sa	mple ID: Metho	d Blank
Matrix: Solid							Prep Type: 1	Total/NA
Analysis Batch: 12850							Prep Batch	n: 12663
	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/20/24 14:22	09/23/24 17:56	1
Ethylbenzene	ND		0.050	mg/Kg		09/20/24 14:22	09/23/24 17:56	1
Toluene	ND		0.050	mg/Kg		09/20/24 14:22	09/23/24 17:56	1
Xylenes, Total	ND		0.10	mg/Kg		09/20/24 14:22	09/23/24 17:56	1

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QC Sample Results

Client: Hilcorp Energy Project/Site: Salty Dog SWD #1 Job ID: 885-12212-1

Lab Sample ID: MB 885-126	63/1-A								C	Client Sa	mple ID: Metho	d Blan
Matrix: Solid											Prep Type:	Total/N
Analysis Batch: 12850											Prep Batc	
		MD	МВ									
Surrogate	%Reco			Limits					Dra	epared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)		100	Quaimer	<u>48 _ 145</u>				_		/24 14:22	09/23/24 17:56	Dii Fa
		100		40 - 140				, c	55/20	/27 17.22	03/23/24 11:30	
Lab Sample ID: LCS 885-12	663/3-A							Clie	ent \$	Sample	D: Lab Control	Sampl
Matrix: Solid											Prep Type:	
Analysis Batch: 12850											Prep Batc	
-				Spike	LCS	LCS					%Rec	
Analyte				Added	Result	Qualifier	Unit		D	%Rec	Limits	
Benzene				1.00	0.939		mg/Kg			94	70 - 130	
Ethylbenzene				1.00	0.984		mg/Kg			98	70 - 130	
m&p-Xylene				2.00	1.96		mg/Kg			98	70 - 130	
o-Xylene				1.00	0.955		mg/Kg			95	70 - 130	
Toluene				1.00	0.964		mg/Kg			96	70 - 130	
Xylenes, Total				3.00	2.91		mg/Kg			97	70 - 130	
	LCS											
Surroacto	%Recovery	Qua		Limits								
Surrogate 1-Bromofluorobenzene (Surr)		Qua		48 - 145								
naluto	D		MB Qualifier	Ы		Unit		D	Dre	pared	Analyzod	Dil Fa
Analyte Benzene		ND	Quaimer	RL 0.025		mg/Kg				epared /24 11:46	Analyzed 09/25/24 03:56	
Ethylbenzene		ND		0.050		mg/Kg	-			/24 11:46	09/25/24 03:56	
Foluene		ND		0.050		mg/Kg	-			/24 11:46	09/25/24 03:56	
Kylenes, Total		ND		0.10		mg/Kg				/24 11:46	09/25/24 03:56	
,						5.	5					
		MB	MB									
										epared		Dil Fa
-	%Reco	very	Qualifier	Limits				_		<u> </u>	Analyzed	
-	%Reco		Qualifier	Limits 				-0		/24 11:46	Analyzed 09/25/24 03:56	
4-Bromofluorobenzene (Surr)		very	Qualifier						09/23	/24 11:46	09/25/24 03:56	
4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-12		very	Qualifier						09/23	/24 11:46	09/25/24 03:56	Sampl
4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-12 Matrix: Solid		very	Qualifier						09/23	/24 11:46	09/25/24 03:56 D: Lab Control Prep Type:	Sampl Total/N
4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-12 Matrix: Solid		very	Qualifier		LCS	LCS			09/23	/24 11:46	09/25/24 03:56	Samp Total/N
4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-12 Matrix: Solid Analysis Batch: 13037		very	Qualifier	48 - 145		LCS Qualifier	Unit	Clie	09/23	/24 11:46	09/25/24 03:56 D: Lab Control Prep Type: Prep Batc	Sampl Total/N
4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-12 Matrix: Solid Analysis Batch: 13037 Analyte		very	Qualifier	48 - 145			Unit mg/Kg	Clie	09/23 ent \$	//24 11:46 Sample	09/25/24 03:56 D: Lab Control Prep Type: Prep Batc %Rec	Samp Total/N
I-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-12 Matrix: Solid Analysis Batch: 13037 Analyte Benzene		very	Qualifier	48 - 145 Spike Added	Result			Clie	09/23 ent \$	%Rec	09/25/24 03:56 D: Lab Control Prep Type: Prep Batc %Rec Limits	Sampl Total/N
4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-12 Matrix: Solid Analysis Batch: 13037 Analyte Benzene Ethylbenzene		very	Qualifier	48 - 145 Spike Added 1.50	Result 1.55		mg/Kg	Clie	09/23 ent \$	%Rec 103	09/25/24 03:56 D: Lab Control Prep Type: Prep Batc %Rec Limits 70 - 130	Sampl Total/N
4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-12 Matrix: Solid Analysis Batch: 13037 Analyte Benzene Ethylbenzene m&p-Xylene		very	Qualifier	Spike Added 1.50	Result 1.55 1.55		mg/Kg mg/Kg	Clie	09/23 ent \$	%Rec 103 103	09/25/24 03:56 D: Lab Control Prep Type: Prep Batc %Rec Limits 70 - 130 70 - 130	Sampl Total/N
4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-12 Matrix: Solid Analysis Batch: 13037 Analyte Benzene Ethylbenzene m&p-Xylene Xylene		very	Qualifier	Spike Added 1.50 3.00	Result 1.55 1.55 3.07		mg/Kg mg/Kg mg/Kg	Clie	09/23 ent \$	%Rec 103 103 102	09/25/24 03:56 D: Lab Control Prep Type: Prep Batc %Rec Limits 70 - 130 70 - 130 70 - 130	Samp Total/N
4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-12 Matrix: Solid Analysis Batch: 13037 Analyte Benzene Ethylbenzene m&p-Xylene Foluene		very	Qualifier	Spike Added 1.50 3.00 1.50	Result 1.55 1.55 3.07 1.52		mg/Kg mg/Kg mg/Kg mg/Kg	Clie	09/23 ent \$	V24 11:46 Sample Sample %Rec 103 103 102 102	09/25/24 03:56 D: Lab Control Prep Type: Prep Batc %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	Sampl Total/N
4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-12 Matrix: Solid Analysis Batch: 13037 Analyte Benzene Ethylbenzene m&p-Xylene Do-Xylene Toluene	.766/3-A	<u>very</u> 101		Spike Added 1.50 3.00 1.50 1.50	Result 1.55 1.55 3.07 1.52 1.54		mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	Clie	09/23 ent \$	%Rec 103 103 102 103	09/25/24 03:56 D: Lab Control Prep Type: Prep Batc %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Sampl Total/N
Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-12 Matrix: Solid Analysis Batch: 13037 Analyte Benzene Ethylbenzene m&p-Xylene o-Xylene Toluene Xylenes, Total Surrogate		LCS		Spike Added 1.50 3.00 1.50 1.50	Result 1.55 1.55 3.07 1.52 1.54		mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	Clie	09/23 ent \$	%Rec 103 103 102 103	09/25/24 03:56 D: Lab Control Prep Type: Prep Batc %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Sampl Total/N

Client: Hilcorp Energy Project/Site: Salty Dog SWD #1

Lab Sample ID: 885-12212-6 MS

Lab Sample ID: 885-12212-6 MSD

Lab Sample ID: MB 885-12847/1-A

Lab Sample ID: LCS 885-12847/2-A

Matrix: Solid

Analyte

[C10-C28]

Surrogate

Analyte

[C10-C28]

Surrogate

Analyte

Surrogate

Analyte

[C10-C28]

Matrix: Solid

Matrix: Solid

Matrix: Solid

Analysis Batch: 12967

Diesel Range Organics

Di-n-octyl phthalate (Surr)

Analysis Batch: 12967

Diesel Range Organics

Di-n-octyl phthalate (Surr)

Analysis Batch: 12967

Di-n-octyl phthalate (Surr)

Analysis Batch: 12967

Diesel Range Organics

Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Job ID: 885-12212-1

	-	nple ID: PH1		Clien										
		rep Type: To												
5	12828	Prep Batch:						ме	ме		Cuilta		Comula Com	
J			%Rec Limits	Rec	D		Unit	MS Qualifier			Spike Added	•	Sample Sam Result Qua	
6			44 - 136	94	<u> </u>		mg/Kg		46.8		49.8		ND ND	
U		100		54			iiig/itg		40.0		40.0		ND	
													MS MS	
											Limits	lifier		%F
8										-	62 - 134		88	,
9	-	nple ID: PH1		Clien										D
		rep Type: To												
		Prep Batch:												
	RPD		%Rec	_	_				MSD		Spike	-	Sample Sam	
	Limit		Limits	Rec	D		Unit	Qualifier			Added	lifier	Result Qua	
	32	136 0	44 - 136	93			mg/Kg		46.6		49.9		ND	
													MSD MSL	
										_	Limits) lifier	Recovery Qua	%R
										_	Limits 62 - 134			%R
	l Blank	e ID: Method	imple ID:	ient Sa	(_			Recovery Qua	%R -A
		e ID: Method rep Type: To		ient Sa	(_			Recovery Qua	
	otal/NA	e ID: Method rep Type: To Prep Batch:	Prep	ient Sa	(_			Recovery Qua	
	otal/NA	rep Type: To	Prep	ient Sa	(_		lifier	Recovery Qua	
	12847 Dil Fac	rep Type: To Prep Batch: Analyzed	Prep Pre Analy	ared	Pre	D		Unit		RL		lifier	Recovery Qua	
	Dil Fac	rep Type: To Prep Batch: Analyzed 25/24 15:26	Prep Pre Analy 09/25/24	ared 4 09:27	Pr 09/24	D		mg/Kg		10		lifier _	Recovery Qua 100 MB Result ND	
	12847 Dil Fac	rep Type: To Prep Batch: Analyzed	Prep Pre Analy 09/25/24	ared	Pr 09/24	D						lifier _	Recovery Qua 100 MB Result	
	Dil Fac	rep Type: To Prep Batch: Analyzed 25/24 15:26	Prep Pre Analy 09/25/24	ared 4 09:27	Pr 09/24	D		mg/Kg		10		lifier _	Recovery Qua 100 MB Result ND	
	Dil Fac	rep Type: To Prep Batch: Analyzed 25/24 15:26	Prep Pre Analy 09/25/24 09/25/24	ared 4 09:27	Pro 09/24 09/24	<u>D</u>		mg/Kg		10 50		lifier MB Qualifier	Recovery Qua 100 MB Result ND	
	bil Fac 12847	rep Type: To Prep Batch: Analyzed 25/24 15:26 25/24 15:26	Prep Pre Analy 09/25/24 09/25/24 Analy	ared 4 09:27 4 09:27	Pre 09/24 09/24 Pre	<u>D</u>		mg/Kg		10 50	62 - 134	MB Qualifier MB	Recovery Qua 100 MB Result ND ND MB	
	Dil Fac 1 1 Dil Fac 1 1 1 1 1 1	rep Type: To Prep Batch: 25/24 15:26 25/24 15:26 Analyzed 25/24 15:26	Prep Pre 09/25/24 09/25/24 Analy 09/25/24	ared 4 09:27 4 09:27 ared 4 09:27	Pre 09/24 09/24 Pre 09/24			mg/Kg		10 50 nits	62 - 134	MB Qualifier MB	Recovery Qua 100 MB Result ND ND MB %Recovery	
	Dil Fac Dil Fac 1 Dil Fac 1 Dil Fac 1 Sample	rep Type: To Prep Batch: Analyzed 25/24 15:26 25/24 15:26 Analyzed 25/24 15:26 Analyzed 25/24 15:26 Analyzed 25/24 15:26 Analyzed 25/24 15:26	Prep Pre 09/25/24 09/25/24 09/25/24 09/25/24	ared 4 09:27 4 09:27 ared 4 09:27	Pre 09/24 09/24 Pre 09/24			mg/Kg		10 50 nits	62 - 134	MB Qualifier MB	Recovery Qua 100 MB Result ND ND MB %Recovery	
	Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac 1 Sample Dtal/NA	rep Type: To Prep Batch: 25/24 15:26 25/24 15:26 25/24 15:26 Analyzed 25/24 15:26 ab Control S rep Type: To	Prep Pre 09/25/24 09/25/24 09/25/24 09/25/24 ID: Lab C Prep	ared 4 09:27 4 09:27 ared 4 09:27	Pre 09/24 09/24 Pre 09/24			mg/Kg		10 50 nits	62 - 134	MB Qualifier MB	Recovery Qua 100 MB Result ND ND MB %Recovery	-A
	Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac 1 Sample Dtal/NA	rep Type: To Prep Batch: Analyzed 25/24 15:26 25/24 15:26 Analyzed 25/24 15:26 ab Control S rep Type: To Prep Batch:	Prep Pre Analy 09/25/24 09/25/24 Analy 09/25/24 ID: Lab C Prep Pre	ared 4 09:27 4 09:27 ared 4 09:27	Pre 09/24 09/24 Pre 09/24			mg/Kg mg/Kg		10 50 nits	62 - 134	MB Qualifier MB	Recovery Qua 100 MB Result ND ND MB %Recovery	-A
	Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac 1 Sample Dtal/NA	rep Type: To Prep Batch: Analyzed 25/24 15:26 25/24 15:26 Analyzed 25/24 15:26 ab Control S rep Type: To Prep Batch: c	Prep Pre 09/25/24 09/25/24 <i>Analy</i> 09/25/24 ID: Lab C Prep Pre %Rec	ared 4 09:27 4 09:27 4 09:27 4 09:27 ample	Pro 09/24 09/24 Pro 09/24 ent 3		I	mg/Kg mg/Kg	LCS	10 50 nits	62 - 134	MB Qualifier MB	Recovery Qua 100 MB Result ND ND MB %Recovery	-A
	Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac 1 Sample Dtal/NA	rep Type: To Prep Batch: 25/24 15:26 25/24 15:26 Analyzed 25/24 15:26 ab Control S rep Type: To Prep Batch: c ts	Prep Pre Analy 09/25/24 09/25/24 Analy 09/25/24 ID: Lab C Prep Pre	ared 4 09:27 4 09:27 ared 4 09:27	Pre 09/24 09/24 Pre 09/24			mg/Kg mg/Kg		10 50 nits	62 - 134	MB Qualifier MB	Recovery Qua 100 MB Result ND ND MB %Recovery	-A

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Di-n-octyl phthalate (Surr)	89		62 - 134

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-12958/1-A Matrix: Solid Analysis Batch: 13000				Client Sa	mple ID: Metho Prep Type: ⁻ Prep Batcl	Total/NA		
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		09/24/24 19:04	09/25/24 09:00	1

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Released to Imaging: 12/26/2024 1:46:16 PM

Lab Sample ID: LCS 885-12958/2-A

Lab Sample ID: MB 885-12959/1-A

Lab Sample ID: LCS 885-12959/2-A

Lab Sample ID: 885-12212-7 MS

Method: 300.0 - Anions, Ion Chromatography (Continued)

QC Sample Results

LCS LCS

30.6

Result Qualifier

Unit

mg/Kg

Spike

Added

MB MB Result Qualifier

ND

30.0

Spike Added

30.0

Client: Hilcorp Energy Project/Site: Salty Dog SWD #1

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Analyte

Chloride

Analyte Chloride

Analyte Chloride

Analysis Batch: 13000

Analysis Batch: 13028

Analysis Batch: 13028

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Job ID: 885-12212-1

Prep Type: Total/NA

Prep Batch: 12958

Client Sample ID: Lab Control Sample

%Rec

Limits

90 - 110

Client Sample ID: Method Blank

							Prep Type: 1 Prep Batch	
RL		Unit		D	Р	repared	Analyzed	Dil Fac
3.0		mg/K	g	_	09/2	4/24 19:25	09/25/24 09:42	1
	1.05	LCS		С	lient	Sample	ID: Lab Control Prep Type: 1 Prep Batch %Rec	Total/NA
	Result	Qualifier	Unit		D	%Rec	Limits	
	32.6		mg/Kg			109	90 - 110	
						Clie	ent Sample ID: P Prep Type: 1 Prep Batch	Total/NA

D

%Rec

Analysis Batch: 13028										Batch: 12959
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	1800	F1	624	1480	F1	mg/Kg		-46	50 - 150	
Lab Sample ID: 885-12212-7 MSD Matrix: Solid								Cli	Prep 1	ype: Total/NA
Analysis Batch: 13028		<u> </u>	.						Prep	Batch: 12959
	Analyte Chloride Lab Sample ID: 885-12212-7 MSD	Analyte Sample Chloride 1800 Lab Sample ID: 885-12212-7 MSD Matrix: Solid Analysis Batch: 13028	AnalyteSampleSampleAnalyteResultQualifierChloride1800F1Lab Sample ID: 885-12212-7 MSDMatrix: SolidAnalysis Batch: 13028	AnalyteSampleSpikeAnalyteResultQualifierAddedChloride1800F1624Lab Sample ID: 885-12212-7 MSDMatrix: SolidAnalysis Batch: 13028	AnalyteSampleSampleSpikeMSAnalyteResultQualifierAddedResultChloride1800F16241480Lab Sample ID: 885-12212-7 MSD Matrix: Solid Analysis Batch: 13028Here Sample ID: 885-12212-7Here Sample ID: 885-12212-7	AnalyteSampleSampleSpikeMSMSAnalyteResultQualifierAddedResultQualifierChloride1800F16241480F1Lab Sample ID: 885-12212-7 MSDMatrix: SolidAnalysis Batch: 13028	Sample Analyte ChlorideSample Result 1800Sample QualifierSpike AddedMS Result QualifierMSAnalyte ChlorideResult 1800Qualifier F1Added 624Result 1480Qualifier F1Unit mg/KgLab Sample ID: 885-12212-7 MSD 	SampleSampleSpikeMSMSAnalyteResultQualifierAddedResultQualifierUnitDChloride1800F16241480F1mg/KgDLab Sample ID: 885-12212-7 MSD Matrix: Solid Analysis Batch: 13028Sample ID: 885-12212-7 MSDSample ID: 885-12212-7 MSDSample ID: 885-12212-7 MSD	SampleSampleSpikeMSMSAnalyteResultQualifierAddedResultQualifierQualifierMsChloride1800F16241480F1mg/KgD%RecLab Sample ID: 885-12212-7 MSDKKKKKKKMatrix: SolidAnalysis Batch: 13028KKKKKK	Analysis Batch: 13028SampleSampleSpikeMSMS%RecAnalyteResultQualifierAddedResultQualifierUnitD%RecLimitsChloride1800F16241480F1mg/KgD%RecLimitsLab Sample ID: 885-12212-7 MSDMatrix: Solid

Analysis Batch: 13028									Prep	Batch:	12959
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	1800	F1	624	1490	F1	mg/Kg		-44	50 - 150	1	20

Client: Hilcorp Energy Project/Site: Salty Dog SWD #1

GC VOA

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Job ID: 885-12212-1

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12212-1	 PH07@15'	Total/NA	Solid	5030C	
885-12212-2	PH07@18'	Total/NA	Solid	5030C	
MB 885-12663/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-12663/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-12663/3-A	Lab Control Sample	Total/NA	Solid	5030C	
rep Batch: 12766					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
385-12212-3	PH09@3'	Total/NA	Solid	5030C	
385-12212-4	PH09@12'	Total/NA	Solid	5030C	
885-12212-5	PH10@3'	Total/NA	Solid	5030C	
385-12212-6	PH10@12'	Total/NA	Solid	5030C	
885-12212-7	PH11@3'	Total/NA	Solid	5030C	
885-12212-8	PH11@6'	Total/NA	Solid	5030C	
885-12212-9	PH11@12'	Total/NA	Solid	5030C	
MB 885-12766/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-12766/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-12766/3-A	Lab Control Sample	Total/NA	Solid	5030C	
nalysis Batch: 12849)				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
385-12212-1	PH07@15'	Total/NA	Solid	8015M/D	1266
885-12212-2	PH07@18'	Total/NA	Solid	8015M/D	12663
MB 885-12663/1-A	Method Blank	Total/NA	Solid	8015M/D	1266
LCS 885-12663/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	12663
nalysis Batch: 12850)				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batcl
885-12212-1	PH07@15'	Total/NA	Solid	8021B	1266
885-12212-2	PH07@18'	Total/NA	Solid	8021B	1266
MB 885-12663/1-A	Method Blank	Total/NA	Solid	8021B	1266
LCS 885-12663/3-A	Lab Control Sample	Total/NA	Solid	8021B	12663
nalysis Batch: 13001	L				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
MB 885-12766/1-A	Method Blank	Total/NA	Solid	8015M/D	12760
LCS 885-12766/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	1276
nalysis Batch: 13002	2				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
MB 885-12766/1-A	Method Blank	Total/NA	Solid	8021B	1276
nalysis Batch: 13036	3				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
885-12212-3	PH09@3'	Total/NA	Solid	8015M/D	1276
885-12212-4	PH09@12'	Total/NA	Solid	8015M/D	1276
885-12212-5	PH10@3'	Total/NA	Solid	8015M/D	1276
885-12212-6	PH10@12'	Total/NA	Solid	8015M/D	12766
885-12212-7	PH11@3'	Total/NA	Solid	8015M/D	1276

Eurofins Albuquerque

8015M/D

8015M/D

Released to Imaging: 12/26/2024 1:46:16 PM

PH11@6'

PH11@12'

885-12212-8

885-12212-9

Total/NA

Total/NA

Solid

Solid

12766

Client: Hilcorp Energy Project/Site: Salty Dog SWD #1

Job ID: 885-12212-1

GC VOA

Analysis Batch: 13037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12212-3	PH09@3'	Total/NA	Solid	8021B	12766
385-12212-4 PH09@12'		Total/NA	Solid	8021B	12766
385-12212-5 PH10@3'		Total/NA	Solid	8021B	12766
885-12212-6	PH10@12'	Total/NA	Solid	8021B	12766
885-12212-7	PH11@3'	Total/NA	Solid	8021B	12766
885-12212-8	PH11@6'	Total/NA	Solid	8021B	12766
885-12212-9	PH11@12'	Total/NA	Solid	8021B	12766
LCS 885-12766/3-A	Lab Control Sample	Total/NA	Solid	8021B	12766

GC Semi VOA

Prep Batch: 12828

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-12212-1	PH07@15'	Total/NA	Solid	SHAKE	
885-12212-2	PH07@18'	Total/NA	Solid	SHAKE	
885-12212-3	PH09@3'	Total/NA	Solid	SHAKE	
885-12212-4	PH09@12'	Total/NA	Solid	SHAKE	
885-12212-5	PH10@3'	Total/NA	Solid	SHAKE	
885-12212-6	PH10@12'	Total/NA	Solid	SHAKE	
885-12212-6 MS	PH10@12'	Total/NA	Solid	SHAKE	
885-12212-6 MSD	PH10@12'	Total/NA	Solid	SHAKE	

Prep Batch: 12847

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-12212-7	PH11@3'	Total/NA	Solid	SHAKE	
885-12212-8	PH11@6'	Total/NA	Solid	SHAKE	
885-12212-9	PH11@12'	Total/NA	Solid	SHAKE	
MB 885-12847/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-12847/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 12967

885-12212-5

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-12212-1	PH07@15'	Total/NA	Solid	8015M/D	12828
885-12212-2	PH07@18'	Total/NA	Solid	8015M/D	12828
885-12212-3	PH09@3'	Total/NA	Solid	8015M/D	12828
885-12212-4	PH09@12'	Total/NA	Solid	8015M/D	12828
885-12212-6	PH10@12'	Total/NA	Solid	8015M/D	12828
885-12212-7	PH11@3'	Total/NA	Solid	8015M/D	12847
885-12212-8	PH11@6'	Total/NA	Solid	8015M/D	12847
885-12212-9	PH11@12'	Total/NA	Solid	8015M/D	12847
MB 885-12847/1-A	Method Blank	Total/NA	Solid	8015M/D	12847
LCS 885-12847/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	12847
885-12212-6 MS	PH10@12'	Total/NA	Solid	8015M/D	12828
885-12212-6 MSD	PH10@12'	Total/NA	Solid	8015M/D	12828
Analysis Batch: 13085	5				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch

8015M/D

PH10@3'

Total/NA

Solid

Client: Hilcorp Energy Project/Site: Salty Dog SWD #1 Job ID: 885-12212-1

HPLC/IC

Prep Batch: 12958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12212-1	PH07@15'	Total/NA	Solid	300_Prep	
885-12212-2	PH07@18'	Total/NA	Solid	300_Prep	
885-12212-3	PH09@3'	Total/NA	Solid	300_Prep	
385-12212-4	PH09@12'	Total/NA	Solid	300_Prep	
385-12212-5	PH10@3'	Total/NA	Solid	300_Prep	
885-12212-6	PH10@12'	Total/NA	Solid	300_Prep	
MB 885-12958/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-12958/2-A	Lab Control Sample	Total/NA	Solid	300 Prep	

Prep Batch: 12959

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-12212-7	PH11@3'	Total/NA	Solid	300_Prep	
885-12212-8	PH11@6'	Total/NA	Solid	300_Prep	
885-12212-9	PH11@12'	Total/NA	Solid	300_Prep	
MB 885-12959/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-12959/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-12212-7 MS	PH11@3'	Total/NA	Solid	300_Prep	
885-12212-7 MSD	PH11@3'	Total/NA	Solid	300_Prep	

Analysis Batch: 13000

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-12212-1	PH07@15'	Total/NA	Solid	300.0	12958
885-12212-2	PH07@18'	Total/NA	Solid	300.0	12958
885-12212-3	PH09@3'	Total/NA	Solid	300.0	12958
885-12212-4	PH09@12'	Total/NA	Solid	300.0	12958
885-12212-5	PH10@3'	Total/NA	Solid	300.0	12958
885-12212-6	PH10@12'	Total/NA	Solid	300.0	12958
885-12212-8	PH11@6'	Total/NA	Solid	300.0	12959
MB 885-12958/1-A	Method Blank	Total/NA	Solid	300.0	12958
LCS 885-12958/2-A	Lab Control Sample	Total/NA	Solid	300.0	12958

Analysis Batch: 13028

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-12212-7	PH11@3'	Total/NA	Solid	300.0	12959
885-12212-9	PH11@12'	Total/NA	Solid	300.0	12959
MB 885-12959/1-A	Method Blank	Total/NA	Solid	300.0	12959
LCS 885-12959/2-A	Lab Control Sample	Total/NA	Solid	300.0	12959
885-12212-7 MS	PH11@3'	Total/NA	Solid	300.0	12959
885-12212-7 MSD	PH11@3'	Total/NA	Solid	300.0	12959

Job ID: 885-12212-1

Lab Sample ID: 885-12212-1 Matrix: Solid

Date Collected: 09/19/24 10:15 Date Received: 09/20/24 07:15

Project/Site: Salty Dog SWD #1

Client Sample ID: PH07@15'

Client: Hilcorp Energy

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			12663	JR	EET ALB	09/20/24 14:22
Total/NA	Analysis	8015M/D		1	12849	JP	EET ALB	09/24/24 03:21
Total/NA	Prep	5030C			12663	JR	EET ALB	09/20/24 14:22
Total/NA	Analysis	8021B		1	12850	JP	EET ALB	09/24/24 03:21
Total/NA	Prep	SHAKE			12828	KR	EET ALB	09/24/24 07:58
Total/NA	Analysis	8015M/D		1	12967	KR	EET ALB	09/25/24 13:13
Total/NA	Prep	300_Prep			12958	JT	EET ALB	09/24/24 19:04
Total/NA	Analysis	300.0		20	13000	EH	EET ALB	09/25/24 14:22

Lab Sample ID: 885-12212-2

Matrix: Solid

Matrix: Solid

5

8

Client Sample ID: PH07@18' Date Collected: 09/19/24 10:20

Date Received: 09/20/24 07:15

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			12663	JR	EET ALB	09/20/24 14:22
Total/NA	Analysis	8015M/D		1	12849	JP	EET ALB	09/24/24 03:45
Total/NA	Prep	5030C			12663	JR	EET ALB	09/20/24 14:22
Total/NA	Analysis	8021B		1	12850	JP	EET ALB	09/24/24 03:45
Total/NA	Prep	SHAKE			12828	KR	EET ALB	09/24/24 07:58
Total/NA	Analysis	8015M/D		1	12967	KR	EET ALB	09/25/24 13:25
Total/NA	Prep	300_Prep			12958	JT	EET ALB	09/24/24 19:04
Total/NA	Analysis	300.0		20	13000	EH	EET ALB	09/25/24 14:35

Client Sample ID: PH09@3'

Date Collected: 09/19/24 10:24 Date Received: 09/20/24 07:15

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8015M/D		1	13036	AT	EET ALB	09/25/24 13:00
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8021B		1	13037	AT	EET ALB	09/25/24 13:00
Total/NA	Prep	SHAKE			12828	KR	EET ALB	09/24/24 07:58
Total/NA	Analysis	8015M/D		10	12967	KR	EET ALB	09/25/24 13:37
Total/NA	Prep	300_Prep			12958	JT	EET ALB	09/24/24 19:04
Total/NA	Analysis	300.0		20	13000	EH	EET ALB	09/25/24 14:48

Client Sample ID: PH09@12'

Date Collected: 09/19/24 10:33 Date Received: 09/20/24 07:15

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8015M/D		1	13036	AT	EET ALB	09/25/24 13:22

Eurofins Albuquerque

Lab Sample ID: 885-12212-4

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Lab Sample ID: 885-12212-3

Matrix: Solid

Client: Hilcorp Energy

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Project/Site: Salty Dog SWD #1

Date Collected: 09/19/24 10:33

Date Received: 09/20/24 07:15

Client Sample ID: PH09@12'

Batch

Туре

Prep

Prep

Prep

Analysis

Analysis

Analysis

Batch

Method

5030C

8021B

SHAKE

8015M/D

300 Prep

300.0

Dilution

Factor

1

1

20

Run

Batch

12766 JP

13037 AT

12828 KR

12967 KR

12958 JT

13000 EH

Number Analyst

Lab

EET ALB

EET ALB

EET ALB

EET ALB

EET ALB

EET ALB

Job ID: 885-12212-1

Lab Sample ID: 885-12212-4

Lab Sample ID: 885-12212-5

Prepared

or Analyzed

09/23/24 11:46

09/25/24 13:22

09/24/24 07:58

09/25/24 14:01

09/24/24 19:04

09/25/24 15:01

Matrix: Solid

Matrix: Solid

Client Sample ID: PH10@3' Date Collected: 09/19/24 10:40 Date Received: 09/20/24 07:15

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8015M/D		1	13036	AT	EET ALB	09/25/24 13:44
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8021B		1	13037	AT	EET ALB	09/25/24 13:44
Total/NA	Prep	SHAKE			12828	KR	EET ALB	09/24/24 07:58
Total/NA	Analysis	8015M/D		1	13085	EM	EET ALB	09/26/24 15:31
Total/NA	Prep	300_Prep			12958	JT	EET ALB	09/24/24 19:04
Total/NA	Analysis	300.0		20	13000	EH	EET ALB	09/25/24 15:13

Client Sample ID: PH10@12' Date Collected: 09/19/24 10:48 Date Received: 09/20/24 07:15

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8015M/D		1	13036	AT	EET ALB	09/25/24 14:05
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8021B		1	13037	AT	EET ALB	09/25/24 14:05
Total/NA	Prep	SHAKE			12828	KR	EET ALB	09/24/24 07:58
Total/NA	Analysis	8015M/D		1	12967	KR	EET ALB	09/25/24 14:38
Total/NA	Prep	300_Prep			12958	JT	EET ALB	09/24/24 19:04
Total/NA	Analysis	300.0		20	13000	EH	EET ALB	09/25/24 15:26

Client Sample ID: PH11@3'

Date Collected: 09/19/24 09:56 Date Received: 09/20/24 07:15

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8015M/D		1	13036	AT	EET ALB	09/25/24 14:27
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8021B		1	13037	AT	EET ALB	09/25/24 14:27

Eurofins Albuquerque

Released to Imaging: 12/26/2024 1:46:16 PM

Lab Sample ID: 885-12212-6

Lab Sample ID: 885-12212-7

Matrix: Solid

Matrix: Solid

Lab Chronicle

Job ID: 885-12212-1

Matrix: Solid

Matrix: Solid

8

Lab Sample ID: 885-12212-7

Lab Sample ID: 885-12212-8

Project/Site: Salty Dog SWD #1 Client Sample ID: PH11@3'

Client: Hilcorp Energy

Date Collected: 09/19/24 09:56 Date Received: 09/20/24 07:15

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	SHAKE			12847	KR	EET ALB	09/24/24 09:27
Total/NA	Analysis	8015M/D		1	12967	KR	EET ALB	09/25/24 16:50
Total/NA	Prep	300_Prep			12959	JT	EET ALB	09/24/24 19:25
Total/NA	Analysis	300.0		20	13028	EH	EET ALB	09/25/24 10:15

Client Sample ID: PH11@6'

Date Collected: 09/19/24 09:59 Date Received: 09/20/24 07:15

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8015M/D		1	13036	AT	EET ALB	09/25/24 14:49
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8021B		1	13037	AT	EET ALB	09/25/24 14:49
Total/NA	Prep	SHAKE			12847	KR	EET ALB	09/24/24 09:27
Total/NA	Analysis	8015M/D		1	12967	KR	EET ALB	09/25/24 17:02
Total/NA	Prep	300_Prep			12959	JT	EET ALB	09/24/24 19:25
Total/NA	Analysis	300.0		50	13000	EH	EET ALB	09/25/24 16:31

Client Sample ID: PH11@12' Date Collected: 09/19/24 10:05 Date Received: 09/20/24 07:15

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed Total/NA Prep 5030C 12766 JP EET ALB 09/23/24 11:46 Total/NA Analysis 8015M/D 13036 AT EET ALB 09/25/24 15:11 1 Total/NA 5030C EET ALB 09/23/24 11:46 Prep 12766 JP 09/25/24 15:11 Total/NA 8021B EET ALB Analysis 1 13037 AT Total/NA SHAKE EET ALB 09/24/24 09:27 Prep 12847 KR 12967 KR Total/NA 8015M/D EET ALB 09/25/24 17:14 Analysis 1 Total/NA 300 Prep JT EET ALB 09/24/24 19:25 Prep 12959 EET ALB Total/NA Analysis 300.0 20 13028 EH 09/25/24 11:32

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Lab Sample ID: 885-12212-9

Matrix: Solid

Accreditation/Certification Summary

Client: Hilcorp Energy Project/Site: Salty Dog SWD #1

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

thority	Prog	ram	Identification Number	Expiration Date			
w Mexico	State		NM9425, NM0901	02-26-25			
• •		ut the laboratory is not certif	ied by the governing authority. This lis	st may include analytes			
for which the agency d	oes not offer certification.						
Analysis Method	Prep Method	Matrix	Analyte				
300.0	300_Prep Solid		Chloride				
8015M/D	5030C Solid		Gasoline Range Organics [C6 - C10]				
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]				
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]				
8021B	5030C	Solid	Benzene				
8021B	5030C	Solid	Ethylbenzene				
8021B	5030C	Solid	Toluene				
8021B	5030C	Solid	Xylenes, Total				
egon	NELA	P	NM100001	02-26-25			

Job ID: 885-12212-1

		Page 141 of 221
106 885-12212 COC		
 HALL ENVIRONME HALL ENVIRONME ANALYSIS LABOR ANALYSIS LABOR ANALYSIS LABOR ANALYSIS LABOR ANALYSIS LABOR ANALYSIS LABOR Tel. 505-345-3975 Fax 505-345-4107 Analysis Request 	BTEXT MIBE/TMB6 (8021) TPH:8015D(GRO / DRO / MRO) TPH:8015D(GRO / DRO / MRO) BBB (Method 504.1) EDB (Method 504.1) RCRA 8 Metals RCRA 1000 (Semi-VOA) RCRA 100 (Semi-VOA) RCRA 100 (Semi-VOA) RCRA 100 (Potal) RCRA 100 (Potal) RCRA 100 (Potal) RCRA 10 (Potal)	Remarks: CC; SM $AVANAY$ $AFCNSOLVMCC$; $ZMY ersDC$; $ZMY ersDC$; $ZMY ersCC$; ZM ers CC; ZM er
Turn-Around Time: 3-day Standard Rkush Project Name: Salty Dos SW D # L Project #:	Project Manager: Stuat Hyde Shyde Eansdum coun sampler: Zad Wyc On Ice: Eres DNo (Muchu # of Coolers: I Cooler Temp(Including cr): 5:8-0.1:5:3 (°C) Cooler Temp(Including cr): 5:8-0.1:5:3 (°C) Type and # Type I vor Cool Temp(Including cr): 5:8-0.1:5:3 (°C)	Time: Relinquished by: Received by: Via: Date Time Remarks: 1522 7:52 7:7 7 <t< td=""></t<>
of-Custody Record	Mkillouch Bhilcorp. (cum Level 4 (Full Validation) Az Compliance Compliance Compliance Compliance Chore Cho	Relinquished by: Refinquished by: Refinquished by: MML Walley sary, sampley submitted to Hall Environmental may be subcontri
Client: H.I.C. Mailing Address:	email or Fax#: M QAQC Package: Candard Accreditation: DELAC Candard Accreditation: DEDD Candard Accreditation: DEDD Candard Ca	Date: Time: $\frac{9/3}{1/9/2}$ 1522 Date: Time: 1/3/22 1/3/22 1/3/22 1/3/22 1/3/22

Login Sample Receipt Checklist

Client: Hilcorp Energy

Login Number: 12212 List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 885-12212-1

List Source: Eurofins Albuquerque

Received by OCD: 12/26/2024 10:28:59 AM



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mitch Killough Hilcorp Energy PO BOX 4700 Farmington, New Mexico 87499 Generated 10/4/2024 9:44:02 AM

JOB DESCRIPTION

Salty Dog SWD #1

JOB NUMBER

885-12213-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Juhelle Garcia Authorized for release by

Michelle Garcia, Project Manager michelle.garcia@et.eurofinsus.com

(505)345-3975

Generated 10/4/2024 9:44:02 AM

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Definitions/Glossary

Client: Hilcorp Energy Project/Site: Salty Dog SWD #1 Job ID: 885-12213-1

QC

RER RL

RPD

TEF

TEQ

TNTC

Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	
S1+	Surrogate recovery exceeds control limits, high biased.	
Glossary		5
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	0
CNF	Contains No Free Liquid	0
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	9
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Case Narrative

Job Narrative

885-12213-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any

Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise

Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed

exceptions, if applicable.

Job ID: 885-12213-1

specified in the method.

unless attributed to a dilution or otherwise noted in the narrative.

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1 2 3 4 5 6 7 8 9 10

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Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 9/20/2024 7:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.7°C.

Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

5

Job ID: 885-12213-1

Lab Sample ID: 885-12213-1 Matrix: Solid

Date Collected: 09/19/24 09:48 Date Received: 09/20/24 07:15

Project/Site: Salty Dog SWD #1

Client Sample ID: PH12@6'

Client: Hilcorp Energy

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		09/23/24 11:46	09/25/24 15:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		35 - 166			09/23/24 11:46	09/25/24 15:32	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		09/23/24 11:46	09/25/24 15:32	1
Ethylbenzene	ND		0.047	mg/Kg		09/23/24 11:46	09/25/24 15:32	1
Toluene	ND		0.047	mg/Kg		09/23/24 11:46	09/25/24 15:32	1
Xylenes, Total	ND		0.094	mg/Kg		09/23/24 11:46	09/25/24 15:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		48 - 145			09/23/24 11:46	09/25/24 15:32	1
Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		09/24/24 09:27	09/25/24 17:26	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/24/24 09:27	09/25/24 17:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	89		62 - 134			09/24/24 09:27	09/25/24 17:26	1
DI-II-OCIYI PITINAIALE (SUIT)								
	Chromatograp	ohy						
Method: EPA 300.0 - Anions, Ion Analyte	• •	ohy Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample Results

Project/Site: Salty Dog SWD #1

Client Sample ID: PH12@12'

Date Collected: 09/19/24 09:53 Date Received: 09/20/24 07:15

Method: SW846 8015M/D - Gasol	ine Range Org	anics (GRC)) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/23/24 11:46	09/25/24 15:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		35 - 166			09/23/24 11:46	09/25/24 15:54	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/23/24 11:46	09/25/24 15:54	1
Ethylbenzene	ND		0.049	mg/Kg		09/23/24 11:46	09/25/24 15:54	1
Toluene	ND		0.049	mg/Kg		09/23/24 11:46	09/25/24 15:54	1
Xylenes, Total	ND		0.097	mg/Kg		09/23/24 11:46	09/25/24 15:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		48 - 145			09/23/24 11:46	09/25/24 15:54	1
- Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		09/24/24 09:27	09/25/24 17:38	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/24/24 09:27	09/25/24 17:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	101		62 - 134			09/24/24 09:27	09/25/24 17:38	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

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5

Job ID: 885-12213-1

Lab Sample ID: 885-12213-2 Matrix: Solid

Released to Imaging: 12/26/2024 1:46:16 PM

5

Job ID: 885-12213-1

Lab Sample ID: 885-12213-3

Date Collected: 09/19/24 09:33 Date Received: 09/20/24 07:15

Project/Site: Salty Dog SWD #1

Client Sample ID: PH13@6'

Client: Hilcorp Energy

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/23/24 11:46	09/25/24 16:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		35 - 166			09/23/24 11:46	09/25/24 16:16	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/23/24 11:46	09/25/24 16:16	1
Ethylbenzene	ND		0.049	mg/Kg		09/23/24 11:46	09/25/24 16:16	1
Toluene	ND		0.049	mg/Kg		09/23/24 11:46	09/25/24 16:16	1
Xylenes, Total	ND		0.099	mg/Kg		09/23/24 11:46	09/25/24 16:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		48 - 145			09/23/24 11:46	09/25/24 16:16	1
Method: SW846 8015M/D - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		09/24/24 09:27	09/25/24 17:50	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/24/24 09:27	09/25/24 17:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	92		62 - 134			09/24/24 09:27	09/25/24 17:50	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy						
Method: EPA 300.0 - Anions, Ion Analyte	• •	o <mark>hy</mark> Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Eurofins Albuquerque

Matrix: Solid

Client Sample Results

Client Sample ID: PH13@12' Date Collected: 09/19/24 09:40

Date Received: 09/20/24 07:15

Method: SW846 8015M/D - Gasol	ine Range Org	anics (GRC)) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		09/23/24 16:02	09/25/24 16:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		35 - 166			09/23/24 16:02	09/25/24 16:05	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	1					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/23/24 16:02	09/25/24 16:05	1
Ethylbenzene	ND		0.048	mg/Kg		09/23/24 16:02	09/25/24 16:05	1
Toluene	ND		0.048	mg/Kg		09/23/24 16:02	09/25/24 16:05	1
Xylenes, Total	ND		0.096	mg/Kg		09/23/24 16:02	09/25/24 16:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		48 - 145			09/23/24 16:02	09/25/24 16:05	1
Method: SW846 8015M/D - Diese	l Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		09/24/24 09:27	09/25/24 18:03	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		09/24/24 09:27	09/25/24 18:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate Di-n-octyl phthalate (Surr)	% Recovery 92	Qualifier	Limits 62 - 134			Prepared 09/24/24 09:27	Analyzed 09/25/24 18:03	Dil Fac
Di-n-octyl phthalate (Surr)	92							
-	92 Chromatograp			Unit	D			

Lab Sample ID: 885-12213-4

Matrix: Solid

5

5

6

Job ID: 885-12213-1

Client: Hilcorp Energy Project/Site: Salty Dog SWD #1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid Analysis Batch: 13001 Analyte Gasoline Range Organics [C6 - C10] Surrogate 4-Bromofluorobenzene (Surr)			MB Qualifier		RL		Unit		D	P	repared	Prep Type: Prep Batc	h: 12766
Analyte Gasoline Range Organics [C6 - C10] Surrogate		esult			RL		Unit		D	Р	roparod	-	
Gasoline Range Organics [C6 - C10] Surrogate		esult			RL		Unit		D	P	ronarod	Analyzad	
Gasoline Range Organics [C6 - C10] Surrogate			Qualifier				Unit		D	P	ronarod	A maily mail	
Surrogate	<i></i>	ND		F							repareu	Analyzed	Dil Fa
	~ ~			i i	5.0		mg/Kg	g	_	09/2	3/24 11:46	09/25/24 03:56	
	0/ F												
		MB	МВ										
4-Bromofluorobenzene (Surr)	%Reco		Qualifier	Limits							repared	Analyzed	Dil Fa
		109		35 - 166	5					09/2	3/24 11:46	09/25/24 03:56	
Lab Sample ID: LCS 885-12766/2-A									С	lient	Sample	ID: Lab Control	Sample
Matrix: Solid												Prep Type:	Total/N/
Analysis Batch: 13001												Prep Batc	h: 1276
				Spike	L	cs	LCS					%Rec	
Analyte				Added	Res	ult	Qualifier	Unit		D	%Rec	Limits	
Gasoline Range Organics [C6 - C10]				25.0	24	1.4		mg/Kg			98	70 - 130	
	LCS	LCS											
Surrogate %R	Recovery	Qua	lifier	Limits									
4-Bromofluorobenzene (Surr)	224	S1+		35 - 166									
Analyte	R	MB esult	MB Qualifier	,	RL		Unit		D	Р	repared	Analyzed	Dil Fa
Gasoline Range Organics [C6 - C10]		ND	quantor		5.0				_		3/24 16:02	09/25/24 14:31	
		110					ing/it	9		00/2	0/21 10:02	00/20/21 11:01	
		MB	МВ										
Surrogate	%Reco	very	Qualifier	Limits						P	repared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		101		35 - 166	6					09/2	3/24 16:02	09/25/24 14:31	
Lab Sample ID: LCS 885-12803/2-A									С	lient	Sample	ID: Lab Control	Sample
Matrix: Solid												Prep Type:	Total/NA
Analysis Batch: 13061												Prep Batc	h: 12803
				Spike	L	cs	LCS					%Rec	
Analyte				Added	Res	ult	Qualifier	Unit		D	%Rec	Limits	
Gasoline Range Organics [C6 -				25.0	22	2.7		mg/Kg			91	70 - 130	
C10]													
	LCS	LCS											
	Recovery			Limits									
Surrogate %R	RECOVERV												
Surrogate %R 4-Bromofluorobenzene (Surr)	203			35 - 166									
4-Bromofluorobenzene (Surr)	203												
	203											ample ID: Metho	

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Benzene ND 0.025 09/23/24 11:46 09/25/24 03:56 1 mg/Kg Ethylbenzene ND 0.050 mg/Kg 09/23/24 11:46 09/25/24 03:56 1 Toluene ND 0.050 09/23/24 11:46 09/25/24 03:56 mg/Kg 1 Xylenes, Total ND 0.10 09/23/24 11:46 09/25/24 03:56 mg/Kg 1

Eurofins Albuquerque

Analysis Batch: 13002

QC Sample Results

Job ID: 885-12213-1

Analysis Batch: 13002										Prep Batcl	h: 12766
Surrogate	%Recov	MB	MB Qualifier	Limits				,	Prepared	Analyzed	Dil Fac
1-Bromofluorobenzene (Surr)		101	quanner	48 - 145					23/24 11:46	09/25/24 03:56	1
Lab Sample ID: LCS 885-12766/3-A Matrix: Solid	k							Clien	t Sample	ID: Lab Control Prep Type: ⁻ Prep Batcl	Total/NA
Analysis Batch: 13037				Spike	LCS	LCS				%Rec	11. 12/00
Analyte				Added		Qualifier	Unit	D	%Rec	Limits	
Benzene	·			1.50	1.55		mg/Kg		103	70 - 130	
Ethylbenzene				1.50	1.55		mg/Kg		103	70 - 130	
n&p-Xylene				3.00	3.07		mg/Kg		102	70 - 130	
p-Xylene				1.50	1.52		mg/Kg		102	70 - 130	
Toluene				1.50	1.54		mg/Kg		103	70 - 130	
Kylenes, Total				4.50	4.59		mg/Kg		102	70 - 130	
	1.05	1.00									
Surrayata %	LCS Recovery		ifior	Limits							
Surrogate % 4-Bromofluorobenzene (Surr)	105	Quu		48 - 145							
Lab Sample ID: MB 885-12803/1-A Matrix: Solid		мв	MR						Client Sa	ample ID: Metho Prep Type: ⁻ Prep Batcl	Total/NA
Lab Sample ID: MB 885-12803/1-A Matrix: Solid Analysis Batch: 13063		MB		RL		Unit		υF		Prep Type: ⁻ Prep Batcl	Total/NA h: 12803
Lab Sample ID: MB 885-12803/1-A Matrix: Solid Analysis Batch: 13063 Analyte			MB Qualifier			Unit mg/Kc			Client Sa Prepared 23/24 16:02	Prep Type:	Total/NA
Lab Sample ID: MB 885-12803/1-A Matrix: Solid Analysis Batch: 13063 Analyte Benzene		esult				Unit mg/Kg mg/Kg]	09/2	Prepared	Prep Type: Prep Batcl Analyzed	Total/NA h: 12803 Dil Fac
Lab Sample ID: MB 885-12803/1-A Matrix: Solid Analysis Batch: 13063 Analyte Benzene Ethylbenzene		ND		0.025		mg/Kg	9	09/2	Prepared 23/24 16:02	Prep Type: Prep Batcl 09/25/24 14:31	Total/NA h: 12803 Dil Fac
Lab Sample ID: MB 885-12803/1-A Matrix: Solid Analysis Batch: 13063 Analyte Benzene Ethylbenzene Foluene		ND ND		0.025		mg/Kg mg/Kg	9 9 9	09/2 09/2 09/2	Prepared 23/24 16:02 23/24 16:02	Analyzed 09/25/24 14:31 09/25/24 14:31	Total/NA h: 12803 Dil Fac 1
Lab Sample ID: MB 885-12803/1-A Matrix: Solid Analysis Batch: 13063 Analyte Benzene Ethylbenzene Foluene	Re	ND ND ND ND ND	Qualifier	0.025 0.050 0.050		mg/Kg mg/Kg mg/Kg	9 9 9	09/2 09/2 09/2	Prepared 23/24 16:02 23/24 16:02 23/24 16:02	Analyzed 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31	Total/NA h: 12803 Dil Fac 1 1 1
Lab Sample ID: MB 885-12803/1-A Matrix: Solid Analysis Batch: 13063 Analyte Benzene Ethylbenzene Toluene Xylenes, Total	Re	ND ND ND ND ND	Qualifier MB	0.025 0.050 0.050 0.10		mg/Kg mg/Kg mg/Kg	9 9 9		Prepared 23/24 16:02 23/24 16:02 23/24 16:02 23/24 16:02	Prep Type: 7 Prep Batcl 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31	Total/NA h: 12803 Dil Fac 1 1 1 1 1
Lab Sample ID: MB 885-12803/1-A Matrix: Solid Analysis Batch: 13063 Analyte Benzene Ethylbenzene Foluene Kylenes, Total	Re: %Recov	ND ND ND ND ND MB very	Qualifier	0.025 0.050 0.050 0.10 <i>Limits</i>		mg/Kg mg/Kg mg/Kg	9 9 9	09/2 09/2 09/2 09/2	Prepared 23/24 16:02 23/24 16:02 23/24 16:02 23/24 16:02 23/24 16:02 Prepared	Prep Type: Prep Batcl 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31	Total/NA h: 12803 Dil Fac 1 1 1
Lab Sample ID: MB 885-12803/1-A Matrix: Solid Analysis Batch: 13063 Analyte Benzene Ethylbenzene Foluene Kylenes, Total	Re: %Recov	ND ND ND ND ND	Qualifier MB	0.025 0.050 0.050 0.10		mg/Kg mg/Kg mg/Kg	9 9 9	09/2 09/2 09/2 09/2	Prepared 23/24 16:02 23/24 16:02 23/24 16:02 23/24 16:02	Prep Type: Prep Batcl 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31	Total/NA h: 12803 Dil Fac 1 1 1 1 1
Lab Sample ID: MB 885-12803/1-A Matrix: Solid Analysis Batch: 13063 Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-12803/3-A Matrix: Solid	Re:	ND ND ND ND ND MB very	Qualifier MB	0.025 0.050 0.050 0.10 <i>Limits</i>		mg/Kg mg/Kg mg/Kg	9 9 9	09/2 09/2 09/2 09/2 09/2	Prepared 23/24 16:02 23/24 16:02 23/24 16:02 23/24 16:02 Prepared 23/24 16:02	Prep Type: Prep Batcl 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 ID: Lab Control Prep Type:	Total/NA h: 12803 Dil Fac 1 1 1 1 1 <i>Dil Fac</i> 7 Sample Total/NA
Lab Sample ID: MB 885-12803/1-A Matrix: Solid Analysis Batch: 13063 Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-12803/3-A Matrix: Solid	Re:	ND ND ND ND ND MB very	Qualifier MB	0.025 0.050 0.050 0.10 <u>Limits</u> 48 - 145		mg/Kg mg/Kg mg/Kg	9 9 9	09/2 09/2 09/2 09/2 09/2	Prepared 23/24 16:02 23/24 16:02 23/24 16:02 23/24 16:02 Prepared 23/24 16:02	Prep Type: Prep Batcl 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 Analyzed 09/25/24 14:31 ID: Lab Control Prep Type: Prep Batcl	Total/NA h: 12803 Dil Fac 1 1 1 1 1 <i>Dil Fac</i> 7 Sample Total/NA
Lab Sample ID: MB 885-12803/1-A Matrix: Solid Analysis Batch: 13063 Analyte Benzene Ethylbenzene Foluene Kylenes, Total Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-12803/3-A Matrix: Solid Analysis Batch: 13063	Re:	ND ND ND ND ND MB very	Qualifier MB	0.025 0.050 0.050 0.10 <u>Limits</u> 48 - 145		mg/Kg mg/Kg mg/Kg mg/Kg	3 3 3	- 09/2 09/2 09/2 09/2 - F 09/2 Client	Prepared 23/24 16:02 23/24 16:02 23/24 16:02 23/24 16:02 Prepared 23/24 16:02 t Sample	Prep Type: Prep Batcl 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 Analyzed 09/25/24 14:31 ID: Lab Control Prep Type: Prep Batcl %Rec	Total/NA h: 12803 Dil Fac 1 1 1 1 1 <i>Dil Fac</i> 7 Sample Total/NA
Lab Sample ID: MB 885-12803/1-A Matrix: Solid Analysis Batch: 13063 Analyte Benzene Ethylbenzene Foluene (ylenes, Total Surrogate I-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-12803/3-A Matrix: Solid Analysis Batch: 13063 Analyte	Re:	ND ND ND ND ND MB very	Qualifier MB	0.025 0.050 0.050 0.10 <u>Limits</u> 48 - 145 Spike Added	Result	mg/Kg mg/Kg mg/Kg	Unit	09/2 09/2 09/2 09/2 09/2	Prepared 23/24 16:02 23/24 16:02 23/24 16:02 23/24 16:02 23/24 16:02 23/24 16:02 t Sample	Analyzed 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 D: Lab Control Prep Type: Prep Batcl %Rec Limits	Total/NA h: 12803 Dil Fac 1 1 1 1 1 <i>Dil Fac</i> 7 Sample Total/NA
Lab Sample ID: MB 885-12803/1-A Matrix: Solid Analysis Batch: 13063 Analyte Benzene Ethylbenzene Toluene Kylenes, Total Surrogate I-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-12803/3-A Matrix: Solid Analysis Batch: 13063 Analyte Benzene	Re:	ND ND ND ND ND MB very	Qualifier MB	0.025 0.050 0.050 0.10 <u>Limits</u> 48 - 145 Spike Added 1.00	Result 1.04	mg/Kg mg/Kg mg/Kg mg/Kg	g g g g g <u>Unit</u> mg/Kg	- 09/2 09/2 09/2 09/2 - F 09/2 Client	Prepared 23/24 16:02 23/24 16:02 23/24 16:02 23/24 16:02 Prepared 23/24 23/24 16:02 t Sample	Analyzed 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 ID: Lab Control Prep Type: Prep Batcl %Rec Limits 70 - 130	Total/NA h: 12803 Dil Fac 1 1 1 1 1 <i>Dil Fac</i> 7 Sample Total/NA
Lab Sample ID: MB 885-12803/1-A Matrix: Solid Analysis Batch: 13063 Analyte Benzene Ethylbenzene Toluene Cylenes, Total Surrogate H-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-12803/3-A Matrix: Solid Analysis Batch: 13063 Analyte Benzene Ethylbenzene	Re:	ND ND ND ND ND MB very	Qualifier MB	0.025 0.050 0.050 0.10 Limits 48 - 145 Spike Added 1.00 1.00	Result 1.04 1.04	mg/Kg mg/Kg mg/Kg mg/Kg	Unit mg/Kg	- 09/2 09/2 09/2 09/2 - F 09/2 Client	Prepared 23/24 16:02 23/24 16:02 23/24 16:02 23/24 16:02 23/24 16:02 23/24 16:02 t Sample t Sample 04 104	Analyzed 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 ID: Lab Control Prep Type: Prep Batcl %Rec Limits 70 - 130 70 - 130	Total/NA h: 12803 Dil Fac 1 1 1 1 1 <i>Dil Fac</i> 7 Sample Total/NA
Lab Sample ID: MB 885-12803/1-A Matrix: Solid Analysis Batch: 13063 Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-12803/3-A Matrix: Solid Analysis Batch: 13063 Analyte Benzene Ethylbenzene m&p-Xylene	Re:	ND ND ND ND ND MB very	Qualifier MB	0.025 0.050 0.050 0.10 Limits 48 - 145 Spike Added 1.00 2.00	Result 1.04 1.04 2.08	mg/Kg mg/Kg mg/Kg mg/Kg	Unit mg/Kg mg/Kg	- 09/2 09/2 09/2 09/2 - F 09/2 Client	Prepared 23/24 16:02 23/24 16:02 23/24 16:02 23/24 16:02 23/24 16:02 t Sample <u>%Rec</u> 104 104 104	Analyzed 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 ID: Lab Control Prep Type: Prep Batcl %Rec Limits 70 - 130 70 - 130 70 - 130	Total/NA h: 12803 Dil Fac 1 1 1 1 1 <i>Dil Fac</i> 7 Sample Total/NA
Lab Sample ID: MB 885-12803/1-A Matrix: Solid Analysis Batch: 13063 Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-12803/3-A Matrix: Solid Analysis Batch: 13063 Analyte Benzene Ethylbenzene m&p-Xylene o-Xylene	Re:	ND ND ND ND ND MB very	Qualifier MB	0.025 0.050 0.050 0.10 Limits 48 - 145 Spike Added 1.00 2.00 1.00	Result 1.04 2.08 1.03	mg/Kg mg/Kg mg/Kg mg/Kg	Unit mg/Kg mg/Kg mg/Kg mg/Kg	- 09/2 09/2 09/2 09/2 - F 09/2 Client	Prepared 23/24 16:02 23/24 16:02 23/24 16:02 23/24 16:02 23/24 16:02 t Sample t Sample <u>%Rec</u> 104 104 104 103	Analyzed 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 ID: Lab Control Prep Type: " Prep Batcl %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Total/NA h: 12803 Dil Fac 1 1 1 1 1 <i>Dil Fac</i> 7 Sample Total/NA
Lab Sample ID: MB 885-12803/1-A Matrix: Solid Analysis Batch: 13063 Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-12803/3-A Matrix: Solid Analysis Batch: 13063 Analyte Benzene Ethylbenzene m&p-Xylene o-Xylene Toluene	Re:	ND ND ND ND ND MB very	Qualifier MB	0.025 0.050 0.050 0.10 Limits 48 - 145 Spike Added 1.00 2.00 1.00 1.00	Result 1.04 2.08 1.03	mg/Kg mg/Kg mg/Kg mg/Kg	Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	- 09/2 09/2 09/2 09/2 - F 09/2 Client	Prepared 23/24 16:02 23/24 16:02 23/24 16:02 23/24 16:02 23/24 16:02 Prepared 23/24 16:02 t Sample %Rec 104 104 104 103 103	Analyzed 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 ID: Lab Control Prep Type: Prep Batcl %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Dil Fac 1 </td
Lab Sample ID: MB 885-12803/1-A Matrix: Solid Analysis Batch: 13063 Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-12803/3-A Matrix: Solid Analysis Batch: 13063 Analyte Benzene Ethylbenzene m&p-Xylene o-Xylene Toluene Xylenes, Total	Recov	essult ND ND ND ND MB very 100	Qualifier MB	0.025 0.050 0.050 0.10 Limits 48 - 145 Spike Added 1.00 2.00 1.00	Result 1.04 2.08 1.03	mg/Kg mg/Kg mg/Kg mg/Kg	Unit mg/Kg mg/Kg mg/Kg mg/Kg	- 09/2 09/2 09/2 09/2 - F 09/2 Client	Prepared 23/24 16:02 23/24 16:02 23/24 16:02 23/24 16:02 23/24 16:02 t Sample t Sample <u>%Rec</u> 104 104 104 103	Analyzed 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 ID: Lab Control Prep Type: " Prep Batcl %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Total/NA h: 12803 Dil Fac 1 1 1 1 1 1 <i>Dil Fac</i> 7 Sample Total/NA
Lab Sample ID: MB 885-12803/1-A Matrix: Solid Analysis Batch: 13063 Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-12803/3-A Matrix: Solid Analysis Batch: 13063 Analyte Benzene Ethylbenzene m&p-Xylene o-Xylene Toluene	Re:	essult ND ND ND ND MB very 100	Qualifier MB	0.025 0.050 0.050 0.10 Limits 48 - 145 Spike Added 1.00 2.00 1.00 1.00	Result 1.04 2.08 1.03	mg/Kg mg/Kg mg/Kg mg/Kg	Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	- 09/2 09/2 09/2 09/2 - F 09/2 Client	Prepared 23/24 16:02 23/24 16:02 23/24 16:02 23/24 16:02 23/24 16:02 Prepared 23/24 16:02 t Sample %Rec 104 104 104 103 103	Analyzed 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 09/25/24 14:31 ID: Lab Control Prep Type: Prep Batcl %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Dil Fac 1 </td

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Job ID: 885-12213-1

Client: Hilcorp Energy Project/Site: Salty Dog SWD #1

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-12847/1-	Α										Client Sa	mple ID: Metho	d Blan
Matrix: Solid												Prep Type:	Total/N/
Analysis Batch: 12967												Prep Batc	h: 1284
		MB	MB										
Analyte	R	esult	Qualifier	R	L		Unit		D	F	repared	Analyzed	Dil Fa
Diesel Range Organics [C10-C28]		ND		1	0		mg/Kg	9		09/2	24/24 09:27	09/25/24 15:26	
Motor Oil Range Organics [C28-C40]		ND		5	60		mg/Kg	9		09/2	24/24 09:27	09/25/24 15:26	
		ΜВ	МВ										
Surrogate	%Reco	overy	Qualifier	Limits						F	Prepared	Analyzed	Dil Fa
Di-n-octyl phthalate (Surr)		91		62 - 134	_					09/2	24/24 09:27	09/25/24 15:26	
Lab Sample ID: LCS 885-12847/2	- A								С	lien	t Sample	ID: Lab Control	Sampl
Matrix: Solid												Prep Type:	Total/N
Analysis Batch: 12967												Prep Batc	h: 1284
				Spike	LCS	LC	S					%Rec	
Analyte				Added	Result	Qu	alifier	Unit		D	%Rec	Limits	
Diesel Range Organics [C10-C28]				50.0	46.5			mg/Kg			93	60 - 135	
	LCS	LCS											
Surrogate	%Recovery	Qua	lifier	Limits									
Di-n-octyl phthalate (Surr)	89			62 - 134									
lethod: 300.0 - Anions, Ion	Chromat	ogr	aphy										
Lab Sample ID: MB 885-12959/1-	A										Client Sa	mple ID: Metho	od Blan
Matrix: Solid												Prep Type:	Total/N
Analysis Batch: 13028												Prep Batc	h: 1295
		МΒ	МВ										
Analyte	R	esult	Qualifier	R	L		Unit		D	F	repared	Analyzed	Dil Fa
		ND	-	3.	-		mg/Kg		_		24/24 19:25	09/25/24 09:42	

Lab Sample ID: LCS 885-12959/2-A					Client	Sample	ID: Lab Co	ontrol Sample
Matrix: Solid							Prep T	ype: Total/NA
Analysis Batch: 13028							Prep	Batch: 12959
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	30.0	32.6		mg/Kg		109	90 - 110	

Eurofins Albuquerque

Client Sample ID

PH12@6'

PH12@12'

PH13@6'

Method Blank

Lab Control Sample

Lab Control Sample

Client Sample ID

Lab Control Sample

Lab Control Sample

PH13@12'

Method Blank

QC Association Summary

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Matrix

Solid

Solid

Solid

Solid

Method

5030C

5030C

5030C

5030C

5030C

5030C

Method

5030C

5030C

5030C

5030C

Client: Hilcorp Energy Project/Site: Salty Dog SWD #1

GC VOA

885-12213-1

885-12213-2

885-12213-3

885-12213-4

MB 885-12766/1-A

LCS 885-12766/2-A

LCS 885-12766/3-A

Prep Batch: 12803 Lab Sample ID

Prep Batch: 12766 Lab Sample ID

Prep Batch

Prep Batch

Job ID: 885-12213-1

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LCS 885-12803/3-A Analysis Batch: 13001

MB 885-12803/1-A

LCS 885-12803/2-A

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
MB 885-12766/1-A	Method Blank	Total/NA	Solid	8015M/D	12766
LCS 885-12766/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	12766
Analysia Databy 10000					

Analysis Batch: 13002

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
MB 885-12766/1-A	Method Blank	Total/NA	Solid	8021B	12766

Analysis Batch: 13036

Lab	Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-	12213-1	PH12@6'	Total/NA	Solid	8015M/D	12766
885-	12213-2	PH12@12'	Total/NA	Solid	8015M/D	12766
885-	12213-3	PH13@6'	Total/NA	Solid	8015M/D	12766

Analysis Batch: 13037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12213-1	PH12@6'	Total/NA	Solid	8021B	12766
885-12213-2	PH12@12'	Total/NA	Solid	8021B	12766
885-12213-3	PH13@6'	Total/NA	Solid	8021B	12766
LCS 885-12766/3-A	Lab Control Sample	Total/NA	Solid	8021B	12766

Analysis Batch: 13061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12213-4	PH13@12'	Total/NA	Solid	8015M/D	12803
MB 885-12803/1-A	Method Blank	Total/NA	Solid	8015M/D	12803
LCS 885-12803/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	12803

Analysis Batch: 13063

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-12213-4	PH13@12'	Total/NA	Solid	8021B	12803
MB 885-12803/1-A	Method Blank	Total/NA	Solid	8021B	12803
LCS 885-12803/3-A	Lab Control Sample	Total/NA	Solid	8021B	12803

QC Association Summary

Client: Hilcorp Energy Project/Site: Salty Dog SWD #1 Job ID: 885-12213-1

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12847

Prep Batch: 12847

GC Semi VOA

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12213-1	PH12@6'	Total/NA	Solid	SHAKE	
885-12213-2 PH12@12'		Total/NA	Solid	SHAKE	
885-12213-3	PH13@6'	Total/NA	Solid	SHAKE	
885-12213-4	PH13@12'	Total/NA	Solid	SHAKE	
MB 885-12847/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-12847/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
885-12213-1	PH12@6'	Total/NA	Solid	8015M/D	1284
885-12213-2	PH12@12'	Total/NA	Solid	8015M/D	1284
885-12213-3	PH13@6'	Total/NA	Solid	8015M/D	1284
885-12213-4	PH13@12'	Total/NA	Solid	8015M/D	1284

Total/NA

Solid

8015M/D

HPLC/IC

Prep Batch: 12959

LCS 885-12847/2-A

Lab Control Sample

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-12213-1	PH12@6'	Total/NA	Solid	300_Prep	
885-12213-2	PH12@12'	Total/NA	Solid	300_Prep	
885-12213-3	PH13@6'	Total/NA	Solid	300_Prep	
885-12213-4	PH13@12'	Total/NA	Solid	300_Prep	
MB 885-12959/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-12959/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 13028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12213-1	PH12@6'	Total/NA	Solid	300.0	12959
885-12213-2	PH12@12'	Total/NA	Solid	300.0	12959
885-12213-3	PH13@6'	Total/NA	Solid	300.0	12959
885-12213-4	PH13@12'	Total/NA	Solid	300.0	12959
MB 885-12959/1-A	Method Blank	Total/NA	Solid	300.0	12959
LCS 885-12959/2-A	Lab Control Sample	Total/NA	Solid	300.0	12959

Eurofins Albuquerque

Lab Sample ID: 885-12213-1 Matrix: Solid

Client Sample ID: PH12@6' Date Collected: 09/19/24 09:48 Date Received: 09/20/24 07:15

Project/Site: Salty Dog SWD #1

Client: Hilcorp Energy

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8015M/D		1	13036	AT	EET ALB	09/25/24 15:32
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8021B		1	13037	AT	EET ALB	09/25/24 15:32
Total/NA	Prep	SHAKE			12847	KR	EET ALB	09/24/24 09:27
lotal/NA	Analysis	8015M/D		1	12967	KR	EET ALB	09/25/24 17:26
Total/NA	Prep	300_Prep			12959	JT	EET ALB	09/24/24 19:25
Total/NA	Analysis	300.0		20	13028	EH	EET ALB	09/25/24 11:45

Client Sample ID: PH12@12'

Date Collected: 09/19/24 09:53 Date Received: 09/20/24 07:15

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8015M/D		1	13036	AT	EET ALB	09/25/24 15:54
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8021B		1	13037	AT	EET ALB	09/25/24 15:54
Total/NA	Prep	SHAKE			12847	KR	EET ALB	09/24/24 09:27
Total/NA	Analysis	8015M/D		1	12967	KR	EET ALB	09/25/24 17:38
Total/NA	Prep	300_Prep			12959	JT	EET ALB	09/24/24 19:25
Total/NA	Analysis	300.0		20	13028	EH	EET ALB	09/25/24 12:23

Client Sample ID: PH13@6'

Date Collected: 09/19/24 09:33 Date Received: 09/20/24 07:15

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8015M/D		1	13036	AT	EET ALB	09/25/24 16:16
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8021B		1	13037	AT	EET ALB	09/25/24 16:16
Total/NA	Prep	SHAKE			12847	KR	EET ALB	09/24/24 09:27
Total/NA	Analysis	8015M/D		1	12967	KR	EET ALB	09/25/24 17:50
Total/NA	Prep	300_Prep			12959	JT	EET ALB	09/24/24 19:25
Total/NA	Analysis	300.0		20	13028	EH	EET ALB	09/25/24 12:36

Client Sample ID: PH13@12' Date Collected: 09/19/24 09:40

Date Received: 09/20/24 07:15

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			12803	JP	EET ALB	09/23/24 16:02
Total/NA	Analysis	8015M/D		1	13061	JP	EET ALB	09/25/24 16:05

Eurofins Albuquerque

9 1(

Lab Sample ID: 885-12213-2

Lab Sample ID: 885-12213-3

Lab Sample ID: 885-12213-4

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Chronicle

Client Sample ID: PH13@12' Date Collected: 09/19/24 09:40 Date Received: 09/20/24 07:15

Lab Sample ID: 885-12213-4
Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			12803	JP	EET ALB	09/23/24 16:02
Total/NA	Analysis	8021B		1	13063	JP	EET ALB	09/25/24 16:05
Total/NA	Prep	SHAKE			12847	KR	EET ALB	09/24/24 09:27
Total/NA	Analysis	8015M/D		1	12967	KR	EET ALB	09/25/24 18:03
Total/NA	Prep	300_Prep			12959	JT	EET ALB	09/24/24 19:25
Total/NA	Analysis	300.0		20	13028	EH	EET ALB	09/25/24 12:49

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

5 6

Job ID: 885-12213-1

Eurofins Albuquerque

Accreditation/Certification Summary

Client: Hilcorp Energy Project/Site: Salty Dog SWD #1

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

hority	Progr	am	Identification Number Expiration Date			
v Mexico	State		NM9425, NM0901 02-26-25			
The following analytes	are included in this report, b	ut the laboratory is not certif	ied by the governing authority. This lis	t may include analytes		
for which the agency de	oes not offer certification.					
Analysis Method	Prep Method	Matrix	Analyte			
300.0	300_Prep	Solid	Chloride			
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]			
8015M/D	SHAKE	Solid	Diesel Range Organics [C	10-C28]		
8015M/D	SHAKE	Solid	Motor Oil Range Organics	[C28-C40]		
8021B	5030C	Solid	Benzene			
8021B	5030C	Solid	Ethylbenzene			
8021B	5030C	Solid	Toluene			
8021B	5030C	Solid	Xylenes, Total			
gon	NELA	P	NM100001	02-26-25		

10/4/2024

Job ID: 885-12213-1

Received by OCD. 12/20/2024	10.20.37 AM	\square		1 1
				2 Lebout
				e analytical n
HALL ENVIRONM ANALYSIS LABOR www.hallenvironmental.com kins NE - Albuquerque, NM 8710 845-3975 Fax 505-345-4107 Analysis Request	S270 (Semi-VOA) Total Coliform (Present/Absent)			MSOLUM V notated on the analyti
- Albuque Fax 5 Analysis F	(AOV) 0528			The clearly the cl
	ССКА 8 Metals СС) Е, В., ИО₃, ИО₂, РО4, SO4	1		data wiit
HALL ANAL www.hal kins NE - 345-3975	2MI20728 to 0128 vd 2HA9			h Qu itracted
Haw 505-:	8081 Pesticides/8082 PCB's EDB (Method 504.1)			SMahanay SMahanay ZMY eVS Any sub-contracted data will
4901 Tel.	TPH:8015D(GRO / DRO / MRO)			
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Released to Imaging: 12/26/2024 1:46:16 PM

Page 160 of 221

Received by OCD: 12/26/2024 10:28:59 AM

Job Number: 885-12213-1

List Source: Eurofins Albuquerque

Login Sample Receipt Checklist

Client: Hilcorp Energy

Login Number: 12213 List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Hilcorp Energy Co

Project Name:

Salty Dog #1 BGT

Work Order: E410271

Job Number: 17051-0002

Received: 10/22/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/24/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 10/24/24

Mitch Killough PO Box 61529 Houston, TX 77208

Project Name: Salty Dog #1 BGT Workorder: E410271 Date Received: 10/22/2024 2:50:00PM

Mitch Killough,



Page 163 of 221

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/22/2024 2:50:00PM, under the Project Name: Salty Dog #1 BGT.

The analytical test results summarized in this report with the Project Name: Salty Dog #1 BGT apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices: Southern New Mexico Area

Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com

Michelle Gonzales Client Representative Office: 505-421-LABS(5227) Cell: 505-947-8222 mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	9
QC - Anions by EPA 300.0/9056A	10
Definitions and Notes	11
Chain of Custody etc.	12

*		Sample Sum	mary		0
Hilcorp Energy Co		Project Name:	Salty Dog #1 BGT		Reported:
PO Box 61529		Project Number:	17051-0002	17051-0002 Re	
Houston TX, 77208		Project Manager:	Mitch Killough		10/24/24 10:56
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH03@ 20-21.5	E410271-01A	Soil	10/22/24	10/22/24	Glass Jar, 4 oz.



Case Narative:

Project Name: Salty Dog #1 BGT Workorder:E410271 Date Received: 10/22/24 14:50

The client requested the following sample(s) to be re-extracted and re-analyzed:

Sample Name BH03@20-21.5 Laboratory ID E410271-01 Analysis 300.0 Chloride

The analytical test results summarized in this revised report represent this re-extration and re-analysis.

If you have any questions reguarding this report please feel free to contact Envirotech Inc.

Respectfully,

Walter Hinchman



Sample Data

	Di	ample D	ala			
Hilcorp Energy Co	Project Name:		y Dog #1 BGT			
PO Box 61529	Project Numbe		51-0002		Reported:	
Houston TX, 77208	Project Manag	ger: Mite	h Killough			10/24/2024 10:56:15AM
	BF	H03@ 20-21.	5			
		E410271-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	ng/kg Analyst: CG			Batch: 2443020
Benzene	ND	0.0250	1	10/22/24	10/22/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/22/24	
Toluene	ND	0.0250	1	10/22/24	10/22/24	
p-Xylene	ND	0.0250	1	10/22/24	10/22/24	
o,m-Xylene	ND	0.0500	1	10/22/24	10/22/24	
Fotal Xylenes	ND	0.0250	1	10/22/24	10/22/24	
Surrogate: 4-Bromochlorobenzene-PID		92.6 %	70-130	10/22/24	10/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: CG		Batch: 2443020
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/22/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.2 %	70-130	10/22/24	10/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: NV		Batch: 2443074
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/22/24	
Dil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/22/24	
Surrogate: n-Nonane		115 %	50-200	10/22/24	10/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: DT		Batch: 2443062
Chloride	763	20.0	1	10/23/24	10/23/24	



QC Summary Data

		QC DI			~				
Hilcorp Energy Co PO Box 61529	Project Name: Project Number:		alty Dog #1 B0 7051-0002	ΤC		Reported			
Houston TX, 77208		Project Manager:	М	litch Killough			10/24/2024 10:56:1:		
Volatile Organics by EPA 8021B								Analyst: CG	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2443020-BLK1)							Prepared:	10/21/24	Analyzed: 10/22/24
Benzene	ND	0.0250							•
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.34	0.0250	8.00		91.8	70-130			
LCS (2443020-BS1)							Prepared:	10/21/24	Analyzed: 10/22/24
Benzene	4.68	0.0250	5.00		93.5	70-130			
Ethylbenzene	4.47	0.0250	5.00		89.3	70-130			
Toluene	4.59	0.0250	5.00		91.8	70-130			
o-Xylene	4.48	0.0250	5.00		89.7	70-130			
p,m-Xylene	9.05	0.0500	10.0		90.5	70-130			
Total Xylenes	13.5	0.0250	15.0		90.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			
Matrix Spike (2443020-MS1)				Source	e: E41022	9-06	Prepared:	10/21/24	Analyzed: 10/22/24
Benzene	4.93	0.0250	5.00	ND	98.7	54-133			
Ethylbenzene	4.75	0.0250	5.00	ND	95.0	61-133			
Toluene	4.85	0.0250	5.00	ND	97.1	61-130			
o-Xylene	4.76	0.0250	5.00	ND	95.3	63-131			
p,m-Xylene	9.64	0.0500	10.0	ND	96.4	63-131			
Total Xylenes	14.4	0.0250	15.0	ND	96.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.42		8.00		92.7	70-130			
Matrix Spike Dup (2443020-MSD1)				Source	e: E41022	9-06	Prepared:	10/21/24	Analyzed: 10/22/24
Benzene	5.22	0.0250	5.00	ND	104	54-133	5.58	20	
	5.22 5.01	0.0250 0.0250	5.00 5.00	ND ND	104 100	54-133 61-133	5.58 5.38	20 20	
Ethylbenzene									
Ethylbenzene Toluene	5.01	0.0250	5.00	ND	100	61-133	5.38	20	
Ethylbenzene Toluene o-Xylene	5.01 5.13	0.0250 0.0250	5.00 5.00	ND ND	100 103	61-133 61-130	5.38 5.52	20 20	
Benzene Ethylbenzene Toluene o-Xylene p,m-Xylene Total Xylenes	5.01 5.13 5.02	0.0250 0.0250 0.0250	5.00 5.00 5.00	ND ND ND	100 103 100	61-133 61-130 63-131	5.38 5.52 5.25	20 20 20	



QC Summary Data

				J					
Hilcorp Energy Co		Project Name:		alty Dog #1 BG	Т				Reported:
PO Box 61529		Project Number:		7051-0002					10/24/2024 10 56 15 434
Houston TX, 77208		Project Manager:	Ν	/litch Killough					10/24/2024 10:56:15AM
	No	nhalogenated O	rganics	by EPA 801	5D - G	RO			Analyst: CG
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2443020-BLK1)							Prepared:	10/21/24	Analyzed: 10/22/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.3	70-130			
LCS (2443020-BS2)							Prepared:	10/21/24	Analyzed: 10/22/24
Gasoline Range Organics (C6-C10)	44.6	20.0	50.0		89.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			
Matrix Spike (2443020-MS2)				Source:	E41022	9-06	Prepared:	10/21/24	Analyzed: 10/22/24
Gasoline Range Organics (C6-C10)	40.7	20.0	50.0	ND	81.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.4	70-130			
Matrix Spike Dup (2443020-MSD2)				Source:	E41022	9-06	Prepared:	10/21/24	Analyzed: 10/22/24
Gasoline Range Organics (C6-C10)	40.8	20.0	50.0	ND	81.5	70-130	0.0811	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.3	70-130			

QC Summary Data

		\mathbf{v}	/ amining	ing Dut					
Hilcorp Energy Co		Project Name:	Sa	lty Dog #1 B	GT				Reported:
PO Box 61529		Project Number:	17	051-0002					-
Houston TX, 77208		Project Manager	:: M	itch Killough					10/24/2024 10:56:15AM
	Nonha	alogenated Org	ganics by	EPA 8015I) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2443074-BLK1)							Prepared:	10/22/24	Analyzed: 10/22/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.2		50.0		106	50-200			
LCS (2443074-BS1)							Prepared:	10/22/24	Analyzed: 10/22/24
Diesel Range Organics (C10-C28)	270	25.0	250		108	38-132			
Surrogate: n-Nonane	50.9		50.0		102	50-200			
LCS Dup (2443074-BSD1)							Prepared:	10/22/24	Analyzed: 10/22/24
Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132	2.48	20	
Surrogate: n-Nonane	50.1		50.0		100	50-200			



QC Summary Data

		Q U U	u	ary Data	•				
Hilcorp Energy Co PO Box 61529 Houston TX, 77208		Project Name: Project Number: Project Manager:	1	Salty Dog #1 BG 7051-0002 Mitch Killough	T				Reported: 10/24/2024 10:56:15AM
		Anions	by EPA	300.0/9056A					Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2443062-BLK1)							Prepared:	10/22/24	Analyzed: 10/22/24
Chloride	ND	20.0							
LCS (2443062-BS1)							Prepared:	10/22/24	Analyzed: 10/22/24
Chloride	259	20.0	250		104	90-110			
Matrix Spike (2443062-MS1)				Source	: E41024	3-06	Prepared:	10/22/24	Analyzed: 10/22/24
Chloride	316	20.0	250	50.5	106	80-120			
Matrix Spike Dup (2443062-MSD1)				Source	: E41024	3-06	Prepared:	10/22/24	Analyzed: 10/22/24
Chloride	310	20.0	250	50.5	104	80-120	1.74	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



-				
	Hilcorp Energy Co	Project Name:	Salty Dog #1 BGT	
l	PO Box 61529	Project Number:	17051-0002	Reported:
	Houston TX, 77208	Project Manager:	Mitch Killough	10/24/24 10:56

ND	Analyte NOT DETECTED at or above the reporting limit
----	--

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.





Chain of Custody

						Chai	n of Cust	οαγ											Page c
Client Information				Invoice Information			Lab Use Only						TAT			State			
Client: Hilrorp Energy Company Project Name: Salty Doubt) BG+ Project Manager: Airch Killough				-	Company: same as dient			WO#	27	1	Hdol	lumb	er	2	1D 2D 3D Std			NM CO UT TX	
Project Manager: Mitrih Killough				100.3 LONG TO 100.0	City, State, Zip:		<u>C`</u>	TIV	α.ι	11	111	D T	ar	es -	vex	Fder	y'		
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				Sam	ple Informa	ition			RO b	RO by	y 802	y 826(le 30(NN-	005 - 1	3 Met			
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field	Lab Number	DRO/ORO by	GRO/DRO t	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals			Remarks
300	10/22/24	soil	1	BHO	20 75)-21,5			X	X	V	1	\times						Place due the grouped pricing
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(field samp	ler), attest to the	validity and	l authenticity	of this sampl	e. I am aware t	hat tampering with or intentionally misla	abeling the sam	ple location	, date c	or time o	of colle	ection i	is consid	ered	fraud ar	d may	be grou	nds for l	legal action.
	d by: (Signatur		Date	alan	Time	Received by: (Signature)	Date	1 .	Time				S	mples	s requirin	g therm	al preser	vation mu	ist be received on ice the day they are
SIL	\sum		10	1422	1450	Kallatel	~ 10	kely	1	450			sa	mpled	d or recei	ved pac	ked in ice	at an avg	; temp above 0 but less than 6 °C on
elinquishe	d by: (Signatur	e)	Date		Time	Received by: (Signature)	0 Date		Time									Carl Science In	se Only
elinauishe	d by: (Signatur	e)	Date		Time	Received by: (Signature)	Date		Time				F	lecei	ived c	n ice		Y) N	
equisite	- 37. (S.B.Iatar	-1				incented by, (Signature)	June						Г	1			T2		Т3
elinquishe	d by: (Signature	e)	Date		Time	Received by: (Signature)	Date		Time				- I				11		
mala Mat	in c colles c			0.01			C ==	ainer Typ				Jul-1			Temp		7	.	
	ix: S - Soil, Sd - So les are discarde	1997-1997-1997-1997-1997-1997-1997-1997				r arrangements are made. Hazardou	1045 Sec. 10								12.				he analysis of the above samples i
						The liability of the laboratory is limit													rotec
										1	3	>							ratas

Envirotech Analytical Laboratory

Client:	Hilcorp Energy Co	Date Received:	10/22/24	14:50	Work Order ID:	E410271
Phone:	-	Date Logged In:	10/22/24	14:58	Logged In By:	Caitlin Mars
Email:	mkillough@hilcorp.com	Due Date:	10/23/24	17:00 (1 day TAT)		
Chain of	Custody (COC)					
l. Does t	he sample ID match the COC?		Yes			
	he number of samples per sampling site location mate	ch the COC	Yes			
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: S.Mahoney		
4. Was th	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes	<u> </u>		
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in		Yes		Common	ts/Resolution
	i.e, 15 minute hold time, are not included in this disucssio	n.			<u>commen</u>	ts/ Resolution
	Furn Around Time (TAT)		37			
	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample (V			
	sample cooler received? was cooler received in good condition?		Yes			
•	6		Yes			
	e sample(s) received intact, i.e., not broken?		Yes			
	custody/security seals present?		No			
11. If yes	s, were custody/security seals intact?		NA			
	ne sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling	received w/i 15	Yes			
	visible ice, record the temperature. Actual sample	temperature. <u>4</u>	<u>c</u>			
	Container		N			
	queous VOC samples present?		No NA			
	/OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?					
	ion-VOC samples collected in the correct containers?		Yes Yes			
	appropriate volume/weight or number of sample contain	ers conected?	res			
Field La	field sample labels filled out with the minimum info	mation:				
	Sample ID?	illiation.	Yes			
	Date/Time Collected?		Yes			
C	Collectors name?		Yes			
Sample 1	Preservation					
21. Does	the COC or field labels indicate the samples were pro-	eserved?	No			
	ample(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved m	etals?	No			
Multipha	ase Sample Matrix					
26. Does	the sample have more than one phase, i.e., multiphas	e?	No			
27. If yes	s, does the COC specify which phase(s) is to be analy	zed?	NA			
<u>Subcont</u> i	ract Laboratory_					
	amples required to get sent to a subcontract laborator	y?	No			
	a subcontract laboratory specified by the client and if	•	NA	Subcontract Lab: NA		

Client called 10-22-24 requesting preliminary data same day for samples 1 through 3 and placed samples 4 through 6 on hold.

Signature of client authorizing changes to the COC or sample disposition.



envirotech Inc.





5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Hilcorp Energy Co

Project Name:

Salty Dog #1 BGT

Work Order: E410272

Job Number: 17051-0002

Received: 10/22/2024

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 10/28/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 10/28/24

Mitch Killough PO Box 61529 Houston, TX 77208

Project Name: Salty Dog #1 BGT Workorder: E410272 Date Received: 10/22/2024 2:50:00PM

Mitch Killough,



Page 176 of 221

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/22/2024 2:50:00PM, under the Project Name: Salty Dog #1 BGT.

The analytical test results summarized in this report with the Project Name: Salty Dog #1 BGT apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com

Michelle Gonzales Client Representative Office: 505-421-LABS(5227) Cell: 505-947-8222 mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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		Sample Sum	mary		0
Hilcorp Energy Co		Project Name:	Salty Dog #1 BGT		Reported:
PO Box 61529		Project Number:	17051-0002		Reported:
Houston TX, 77208		Project Manager:	Mitch Killough		10/28/24 12:50
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH03@ 25-26.5	E410272-01A	Soil	10/22/24	10/22/24	Glass Jar, 4 oz.



Case Narative:

Project Name: Salty Dog #1 BGT Workorder:E410272 Date Received: 10/22/24 14:50

The client requested the following sample(s) to be re-extracted and re-analyzed:

Sample Name BH03@25-26.5 Laboratory ID E410272-01 <u>Analysis</u> 300.0 Choride

The analytical test results summarized in this revised report represents a second re-extration and re-analysis.

If you have any questions reguarding this report please feel free to contact Envirotech Inc.

Respectfully,

Walter Hinchman



Sample Data

	. Du	mpic D				
Hilcorp Energy Co PO Box 61529	Project Name: Project Numbe		y Dog #1 BGT 51-0002			Reported:
Houston TX, 77208	Project Manage	er: Mite	ch Killough		10/28/2024 12:50:37PN	
	BH	03@ 25-26.	5			
]	E410272-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: CG		Batch: 2443020
Benzene	ND	0.0250	1	10/22/24	10/22/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/22/24	
Toluene	ND	0.0250	1	10/22/24	10/22/24	
o-Xylene	ND	0.0250	1	10/22/24	10/22/24	
o,m-Xylene	ND	0.0500	1	10/22/24	10/22/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/22/24	
Surrogate: 4-Bromochlorobenzene-PID		93.2 %	70-130	10/22/24	10/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: CG		Batch: 2443020
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/22/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.3 %	70-130	10/22/24	10/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: NV		Batch: 2443074
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/22/24	
Dil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/22/24	
Gurrogate: n-Nonane		110 %	50-200	10/22/24	10/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: DT		Batch: 2443207
Chloride	590	20.0	1	10/26/24	10/27/24	



QC Summary Data

		QC DI		ii y Data					
Hilcorp Energy Co PO Box 61529 Houston TX, 77208		Project Name: Project Number: Project Manager:	17	alty Dog #1 B 7051-0002 litch Killough					Reported: 10/28/2024 12:50:37PM
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, ,		by EPA 802					Analyst: CG
			0	•					Analyst. CO
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
									N (
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2443020-BLK1)							Prepared:	10/21/24	Analyzed: 10/22/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.34		8.00		91.8	70-130			
LCS (2443020-BS1)							Prepared:	10/21/24	Analyzed: 10/22/24
Benzene	4.68	0.0250	5.00		93.5	70-130			
Ethylbenzene	4.47	0.0250	5.00		89.3	70-130			
Toluene	4.59	0.0250	5.00		91.8	70-130			
o-Xylene	4.48	0.0250	5.00		89.7	70-130			
p,m-Xylene	9.05	0.0500	10.0		90.5	70-130			
Total Xylenes	13.5	0.0250	15.0		90.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			
Matrix Spike (2443020-MS1)				Sourc	e: E41022	9-06	Prepared:	10/21/24	Analyzed: 10/22/24
Benzene	4.93	0.0250	5.00	ND	98.7	54-133			
Ethylbenzene	4.75	0.0250	5.00	ND	95.0	61-133			
Toluene	4.85	0.0250	5.00	ND	97.1	61-130			
o-Xylene	4.76	0.0250	5.00	ND	95.3	63-131			
p,m-Xylene	9.64	0.0500	10.0	ND	96.4	63-131			
Total Xylenes	14.4	0.0250	15.0	ND	96.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.42		8.00		92.7	70-130			
Matrix Spike Dup (2443020-MSD1)				Sourc	e: E41022	9-06	Prepared:	10/21/24	Analyzed: 10/22/24
Benzene	5.22	0.0250	5.00	ND	104	54-133	5.58	20	
Ethylbenzene	5.01	0.0250	5.00	ND	100	61-133	5.38	20	
Toluene	5.13	0.0250	5.00	ND	103	61-130	5.52	20	
o-Xylene	5.02	0.0250	5.00	ND	100	63-131	5.25	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	5.24	20	
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131	5.24	20	
Surrogate: 4-Bromochlorobenzene-PID	7.38		8.00		92.3	70-130			



QC Summary Data

				J					
Hilcorp Energy Co PO Box 61529		Project Name: Project Number:		Salty Dog #1 BG 17051-0002	Т				Reported:
Houston TX, 77208		Project Manager:		Mitch Killough					10/28/2024 12:50:37PM
	No	nhalogenated O	rganics	s by EPA 801	5D - G	RO			Analyst: CG
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2443020-BLK1)							Prepared:	10/21/24	Analyzed: 10/22/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.3	70-130			
LCS (2443020-BS2)							Prepared:	10/21/24	Analyzed: 10/22/24
Gasoline Range Organics (C6-C10)	44.6	20.0	50.0		89.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			
Matrix Spike (2443020-MS2)				Source	: E41022	9-06	Prepared:	10/21/24	Analyzed: 10/22/24
Gasoline Range Organics (C6-C10)	40.7	20.0	50.0	ND	81.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.4	70-130			
Matrix Spike Dup (2443020-MSD2)				Source	: E41022	9-06	Prepared:	10/21/24	Analyzed: 10/22/24
Gasoline Range Organics (C6-C10)	40.8	20.0	50.0	ND	81.5	70-130	0.0811	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.3	70-130			

QC Summary Data

		QU N	/ a mining	ing Duc					
Hilcorp Energy Co		Project Name:	Sa	lty Dog #1 B	GT				Reported:
PO Box 61529		Project Number:	17	051-0002					-
Houston TX, 77208		Project Manager	:: M	itch Killough					10/28/2024 12:50:37PM
	Nonha	logenated Org	ganics by	EPA 8015I) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2443074-BLK1)							Prepared:	10/22/24	Analyzed: 10/22/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.2		50.0		106	50-200			
LCS (2443074-BS1)							Prepared:	10/22/24	Analyzed: 10/22/24
Diesel Range Organics (C10-C28)	270	25.0	250		108	38-132			
Surrogate: n-Nonane	50.9		50.0		102	50-200			
LCS Dup (2443074-BSD1)							Prepared:	10/22/24	Analyzed: 10/22/24
					105	20 122	2.40	• •	
Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132	2.48	20	



QC Summary Data

		$\chi \sim \sim$	••••••							
Hilcorp Energy Co		Project Name:	S	Salty Dog #1 B	GT				Repor	ted:
PO Box 61529		Project Number:	1	7051-0002						
Houston TX, 77208		Project Manager	: N	Aitch Killough					10/28/2024 1	2:50:37PM
		Anions	by EPA	300.0/9056	4				Analyst: l	DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	No	otes
Blank (2443062-BLK1)							Prepared:	10/22/24	Analyzed: 1	0/22/24
Chloride	ND	20.0								
LCS (2443062-BS1)							Prepared:	10/22/24	Analyzed: 1	0/22/24
Chloride	259	20.0	250		104	90-110				
Matrix Spike (2443062-MS1)				Sourc	e: E41024	3-06	Prepared:	10/22/24	Analyzed: 1	0/22/24
Chloride	316	20.0	250	50.5	106	80-120				
Matrix Spike Dup (2443062-MSD1)				Sourc	e: E41024	3-06	Prepared:	10/22/24	Analyzed: 1	0/22/24
Chloride	310	20.0	250	50.5	104	80-120	1.74	20		



QC Summary Data

			-						
Hilcorp Energy Co PO Box 61529		Project Name: Project Number:		Salty Dog #1 BG 17051-0002	Т				Reported:
Houston TX, 77208		Project Manager		Mitch Killough					10/28/2024 12:50:37PM
		Anions	by EPA	300.0/9056A					Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2443207-BLK1)							Prepared:	10/26/24	Analyzed: 10/27/24
Chloride	ND	20.0							
LCS (2443207-BS1)							Prepared:	10/26/24	Analyzed: 10/27/24
Chloride	257	20.0	250		103	90-110			
LCS Dup (2443207-BSD1)							Prepared:	10/26/24	Analyzed: 10/27/24
Chloride	259	20.0	250		104	90-110	0.642	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



_				
ſ	Hilcorp Energy Co	Project Name:	Salty Dog #1 BGT	
I	PO Box 61529	Project Number:	17051-0002	Reported:
	Houston TX, 77208	Project Manager:	Mitch Killough	10/28/24 12:50

ND Analyte NOT DETECTED at or above the reporti	ng limit
---	----------

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Client: Mailing	Address	Energy	ustody Record	Turn-Around Standard Project Name Salf Project #:	⊭ Rush_	Nextday BGT 272				H. Al	VAI www.ha s NE -3975	allenv	NV SIS ironr	nent erqu	AB al.con e, NM 345-4	m J 1 871	09	
email o QA/QC I □ Stan	r Fax#: Package: dard	mkillou	Builton D. Level 4 (Full Validation)	Project Mana Mitch/killo Stwart H	iger: igh-mkilloug /cle-Shyde@	h@hilcorp.com Lensolum.com	TM B's. (8021)	DRO / MRO	82 PCB's	()		205						
Accredi	AC	□ Az Co □ Othe	ompliance r	Sampler: 5 On Ice: # of Coolers: Cooler Temp	1	4 □ No 4 (°C)	COMTRE/ ID	TPH:8015D GR0 / I	8081 Pesticides/8082	EDB (Method 504.1)	PAHS by 8310 or 82705IMS RCRA 8 Metals	F, Br, NO ₃ , NO ₂ , PO ₄ ,	8260 (VOA)	(Semi-VOA)	Coliform (Present/Absent)			
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX	TPH:8	8081	EDB (RCR/	G	8260	8270	Total			
10/22/24	1305	Soil	BH03@ 25-265	upozabilis jer	None		X	X				X						
				1200		1 1 - 1 - 1	1	F -			_				_			
					AL L	22/29												
							2											
\sim																	-	
Date: 10/2014 Date:	Time: 1450 Time:	Relinquish	they Mahamay	Received by: Received by:	Via: Via:	Date Time										÷.,	Xilen	TPH

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Client:	Hilcorp Energy Co	Date Received:	10/22/24 14	4:50	Work Order ID:	E410272
Phone:	-	Date Logged In:	10/22/24 15	5:04	Logged In By:	Caitlin Mars
Email:	mkillough@hilcorp.com	Due Date:	10/23/24 17	7:00 (1 day TAT)		
Chain of	Custody (COC)					
1. Does t	he sample ID match the COC?		Yes			
2. Does t	he number of samples per sampling site location match	h the COC	Yes			
3. Were s	samples dropped off by client or carrier?		Yes	Carrier: S.Mahon	ey	
4. Was th	e COC complete, i.e., signatures, dates/times, requeste	ed analyses?	Yes		<u> </u>	
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in t i.e, 15 minute hold time, are not included in this disucssion		Yes		Commen	ts/Resolution
<u>Sample '</u>	<u> Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	<u>Cooler</u>					
7. Was a	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	e sample(s) received intact, i.e., not broken?		No			
10. Were	custody/security seals present?		No			
11. If yes	s, were custody/security seals intact?		NA			
	he sample received on ice? If yes, the recorded temp is 4°C, i. Note: Thermal preservation is not required, if samples are n minutes of sampling	received w/i 15	Yes			
13. If no	visible ice, record the temperature. Actual sample to	emperature: <u>4°</u>	<u>C</u>			
	<u>Container</u>					
14. Are a	equeous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
19. Is the	appropriate volume/weight or number of sample containe	rs collected?	Yes			
Field La						
	field sample labels filled out with the minimum information U2	mation:	V			
	Sample ID? Date/Time Collected?		Yes Yes			
	Collectors name?		Yes			
	Preservation					
	the COC or field labels indicate the samples were pre-	served?	No			
22. Are s	ample(s) correctly preserved?		NA			
24. Is lat	filteration required and/or requested for dissolved me	tals?	No			
<u>Multip</u> h	ase Sample Matrix_					
	the sample have more than one phase, i.e., multiphase	?	No			
	s, does the COC specify which phase(s) is to be analyz		NA			
Subcont	ract Laboratory					
	amples required to get sent to a subcontract laboratory	?	No			
	a subcontract laboratory specified by the client and if s			Subcontract Lab: NA		
				54550111461 L40, 1411		

Client called 10-22-24 requesting preliminary data same day for samples 1 through 3 and placed samples 4 through 6 on hold.

Signature of client authorizing changes to the COC or sample disposition.



envirotech Inc.



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Hilcorp Energy Co

Project Name:

Salty Dog SWD 1

Work Order: E411240

Job Number: 17051-0002

Received: 11/22/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 12/3/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 12/3/24

Stuart Hyde PO Box 61529 Houston, TX 77208

Project Name: Salty Dog SWD 1 Workorder: E411240 Date Received: 11/22/2024 10:37:00AM

Stuart Hyde,



Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/22/2024 10:37:00AM, under the Project Name: Salty Dog SWD 1.

The analytical test results summarized in this report with the Project Name: Salty Dog SWD 1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

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Envirotech Web Address: www.envirotech-inc.com

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Sample Summarv

		Sample Sum	mai y		
Hilcorp Energy Co		Project Name:	Salty Dog SWD 1		Reported:
PO Box 61529		Project Number:	17051-0002		Reporteu.
Houston TX, 77208		Project Manager:	Stuart Hyde		12/03/24 06:55
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
HA01 @ 2	E411240-01A	Soil	11/21/24	11/22/24	Glass Jar, 4 oz.
HA01 @ 4	E411240-02A	Soil	11/21/24	11/22/24	Glass Jar, 4 oz.
HA02 @ 1	E411240-03A	Soil	11/21/24	11/22/24	Glass Jar, 4 oz.
HA03 @ 2	E411240-04A	Soil	11/21/24	11/22/24	Glass Jar, 4 oz.
HA03 @ 4	E411240-05A	Soil	11/21/24	11/22/24	Glass Jar, 4 oz.
HA04 @ 2	E411240-06A	Soil	11/21/24	11/22/24	Glass Jar, 4 oz.



		impic D					
Hilcorp Energy Co PO Box 61529	Project Name: Project Numbe	-	y Dog SWE 51-0002	D 1			Reported:
Houston TX, 77208	Project Manage		rt Hyde				12/3/2024 6:55:27AM
		HA01 @ 2					
		E411240-01					
		Reporting					
Analyte	Result	Limit	Dilu	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2448005
Benzene	ND	0.0250	1	1	11/25/24	11/26/24	
Ethylbenzene	ND	0.0250	1	1	11/25/24	11/26/24	
Toluene	ND	0.0250	1	1	11/25/24	11/26/24	
p-Xylene	ND	0.0250	1	1	11/25/24	11/26/24	
o,m-Xylene	ND	0.0500	1	1	11/25/24	11/26/24	
Fotal Xylenes	ND	0.0250	1	1	11/25/24	11/26/24	
Surrogate: Bromofluorobenzene		106 %	70-130		11/25/24	11/26/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130		11/25/24	11/26/24	
Surrogate: Toluene-d8		104 %	70-130		11/25/24	11/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2448005
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	11/25/24	11/26/24	
Surrogate: Bromofluorobenzene		106 %	70-130		11/25/24	11/26/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130		11/25/24	11/26/24	
Surrogate: Toluene-d8		104 %	70-130		11/25/24	11/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	AF		Batch: 2448006
Diesel Range Organics (C10-C28)	ND	25.0	1	1	11/25/24	11/25/24	
Dil Range Organics (C28-C36)	56.4	50.0	1	1	11/25/24	11/25/24	
Surrogate: n-Nonane		98.4 %	50-200		11/25/24	11/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	JM		Batch: 2448011
Chloride	2400	40.0	2	2	11/25/24	11/26/24	

Sample Data



Sample Data

		impic D					
Hilcorp Energy Co	Project Name:	-	y Dog SWI	D 1			
PO Box 61529	Project Numbe		51-0002				Reported:
Houston TX, 77208	Project Manag	er: Stua	rt Hyde		12/3/2024 6:55:27AM		
		HA01 @ 4					
		E411240-02					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2448005
Benzene	ND	0.0250		1	11/25/24	11/26/24	
Ethylbenzene	ND	0.0250		1	11/25/24	11/26/24	
Toluene	ND	0.0250		1	11/25/24	11/26/24	
p-Xylene	ND	0.0250		1	11/25/24	11/26/24	
o,m-Xylene	ND	0.0500		1	11/25/24	11/26/24	
Total Xylenes	ND	0.0250		1	11/25/24	11/26/24	
Surrogate: Bromofluorobenzene		106 %	70-130		11/25/24	11/26/24	
Surrogate: 1,2-Dichloroethane-d4		92.5 %	70-130		11/25/24	11/26/24	
Surrogate: Toluene-d8		104 %	70-130		11/25/24	11/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2448005
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/25/24	11/26/24	
Surrogate: Bromofluorobenzene		106 %	70-130		11/25/24	11/26/24	
Surrogate: 1,2-Dichloroethane-d4		92.5 %	70-130		11/25/24	11/26/24	
Surrogate: Toluene-d8		104 %	70-130		11/25/24	11/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	AF		Batch: 2448006
Diesel Range Organics (C10-C28)	ND	25.0		1	11/25/24	11/26/24	
Dil Range Organics (C28-C36)	ND	50.0		1	11/25/24	11/26/24	
Surrogate: n-Nonane		100 %	50-200		11/25/24	11/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	JM		Batch: 2448011
Chloride	1840	40.0		2	11/25/24	11/26/24	



Sample Data

		impic D					
Hilcorp Energy Co	Project Name:	-	y Dog SWI	D 1			
PO Box 61529	Project Numbe		51-0002				Reported:
Houston TX, 77208	Project Manag	er: Stua	rt Hyde				12/3/2024 6:55:27AM
		HA02 @ 1					
		E411240-03					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2448005
Benzene	ND	0.0250		1	11/25/24	11/26/24	
Ethylbenzene	ND	0.0250		1	11/25/24	11/26/24	
Foluene	ND	0.0250		1	11/25/24	11/26/24	
o-Xylene	ND	0.0250		1	11/25/24	11/26/24	
o,m-Xylene	ND	0.0500		1	11/25/24	11/26/24	
Total Xylenes	ND	0.0250		1	11/25/24	11/26/24	
Surrogate: Bromofluorobenzene		105 %	70-130		11/25/24	11/26/24	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130		11/25/24	11/26/24	
Surrogate: Toluene-d8		107 %	70-130		11/25/24	11/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2448005
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/25/24	11/26/24	
Surrogate: Bromofluorobenzene		105 %	70-130		11/25/24	11/26/24	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130		11/25/24	11/26/24	
Surrogate: Toluene-d8		107 %	70-130		11/25/24	11/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	AF		Batch: 2448006
Diesel Range Organics (C10-C28)	ND	25.0		1	11/25/24	11/26/24	
Dil Range Organics (C28-C36)	ND	50.0		1	11/25/24	11/26/24	
Surrogate: n-Nonane		103 %	50-200		11/25/24	11/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	JM		Batch: 2448011
Chloride	723	40.0		2	11/25/24	11/26/24	



Sample Data

		impic D					
Hilcorp Energy Co	Project Name:		y Dog SW	D 1			
PO Box 61529	Project Numbe						Reported:
Houston TX, 77208	Project Manag	er: Stua	rt Hyde			12/3/2024 6:55:27AM	
		HA03 @ 2					
		E411240-04					
		Reporting					
Analyte	Result	Limit	Dil	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2448005
Benzene	ND	0.0250		1	11/25/24	11/26/24	
Ethylbenzene	ND	0.0250		1	11/25/24	11/26/24	
Toluene	ND	0.0250		1	11/25/24	11/26/24	
p-Xylene	ND	0.0250		1	11/25/24	11/26/24	
o,m-Xylene	ND	0.0500		1	11/25/24	11/26/24	
Fotal Xylenes	ND	0.0250		1	11/25/24	11/26/24	
Surrogate: Bromofluorobenzene		107 %	70-130		11/25/24	11/26/24	
Surrogate: 1,2-Dichloroethane-d4		92.8 %	70-130		11/25/24	11/26/24	
Surrogate: Toluene-d8		105 %	70-130		11/25/24	11/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2448005
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/25/24	11/26/24	
Surrogate: Bromofluorobenzene		107 %	70-130		11/25/24	11/26/24	
Surrogate: 1,2-Dichloroethane-d4		92.8 %	70-130		11/25/24	11/26/24	
Surrogate: Toluene-d8		105 %	70-130		11/25/24	11/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	AF		Batch: 2448006
Diesel Range Organics (C10-C28)	ND	25.0		1	11/25/24	11/26/24	
Dil Range Organics (C28-C36)	ND	50.0		1	11/25/24	11/26/24	
Surrogate: n-Nonane		100 %	50-200		11/25/24	11/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	JM		Batch: 2448011
Chloride	1040	20.0		1	11/25/24	11/26/24	



Sample Data

		ampic D					
Hilcorp Energy Co	Project Name:		y Dog SW	D 1			
PO Box 61529	Project Number		17051-0002				Reported:
Houston TX, 77208	Project Manag	ger: Stua	Stuart Hyde				12/3/2024 6:55:27AM
		HA03 @ 4					
		E411240-05					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	RKS		Batch: 2448005
Benzene	ND	0.0250		1	11/25/24	11/26/24	
Ethylbenzene	ND	0.0250		1	11/25/24	11/26/24	
Toluene	ND	0.0250		1	11/25/24	11/26/24	
-Xylene	ND	0.0250		1	11/25/24	11/26/24	
o,m-Xylene	ND	0.0500		1	11/25/24	11/26/24	
Total Xylenes	ND	0.0250		1	11/25/24	11/26/24	
Surrogate: Bromofluorobenzene		107 %	70-130		11/25/24	11/26/24	
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70-130		11/25/24	11/26/24	
Surrogate: Toluene-d8		105 %	70-130		11/25/24	11/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	RKS		Batch: 2448005
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/25/24	11/26/24	
Surrogate: Bromofluorobenzene		107 %	70-130		11/25/24	11/26/24	
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70-130		11/25/24	11/26/24	
urrogate: Toluene-d8		105 %	70-130		11/25/24	11/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	AF		Batch: 2448006
Diesel Range Organics (C10-C28)	ND	25.0		1	11/25/24	11/26/24	
Dil Range Organics (C28-C36)	ND	50.0		1	11/25/24	11/26/24	
Surrogate: n-Nonane		95.3 %	50-200		11/25/24	11/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	JM		Batch: 2448011
Chloride	513	20.0		1	11/25/24	11/26/24	



Sample Data

		imple D					
Hilcorp Energy Co	Project Name:						
PO Box 61529	Project Numbe		17051-0002				Reported:
Houston TX, 77208	Project Manag	ger: Stua	rt Hyde				12/3/2024 6:55:27AM
		HA04 @ 2					
		E411240-06					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2448005
Benzene	ND	0.0250		1	11/25/24	11/26/24	
Ethylbenzene	ND	0.0250		1	11/25/24	11/26/24	
Toluene	ND	0.0250		1	11/25/24	11/26/24	
o-Xylene	ND	0.0250		1	11/25/24	11/26/24	
o,m-Xylene	ND	0.0500		1	11/25/24	11/26/24	
Total Xylenes	ND	0.0250		1	11/25/24	11/26/24	
Surrogate: Bromofluorobenzene		110 %	70-130		11/25/24	11/26/24	
Surrogate: 1,2-Dichloroethane-d4		94.6 %	70-130		11/25/24	11/26/24	
Surrogate: Toluene-d8		106 %	70-130		11/25/24	11/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2448005
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/25/24	11/26/24	
Surrogate: Bromofluorobenzene		110 %	70-130		11/25/24	11/26/24	
Surrogate: 1,2-Dichloroethane-d4		94.6 %	70-130		11/25/24	11/26/24	
Surrogate: Toluene-d8		106 %	70-130		11/25/24	11/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	AF		Batch: 2448006
Diesel Range Organics (C10-C28)	ND	25.0		1	11/25/24	11/26/24	
Oil Range Organics (C28-C36)	ND	50.0		1	11/25/24	11/26/24	
Surrogate: n-Nonane		99.9 %	50-200		11/25/24	11/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	JM		Batch: 2448011
Chloride	2550	40.0		2	11/25/24	11/26/24	



QC Summary Data

		$\mathbf{x} \circ \sim$		ll y Dala					
Hilcorp Energy Co PO Box 61529		Project Name: Project Number:		llty Dog SWD 1 051-0002					Reported:
Houston TX, 77208		Project Manager:	St	uart Hyde					12/3/2024 6:55:27AM
	V	olatile Organio	e Compo	unds by EPA	A 8260E	3			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2448005-BLK1)						I	Prepared: 1	1/25/24 Aı	nalyzed: 11/26/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		95.0	70-130			
Surrogate: Toluene-d8	0.537		0.500		107	70-130			
LCS (2448005-BS1)						I	Prepared: 1	1/25/24 Aı	nalyzed: 12/02/24
Benzene	2.35	0.0250	2.50		94.2	70-130			
Ethylbenzene	2.29	0.0250	2.50		91.7	70-130			
Toluene	2.31	0.0250	2.50		92.3	70-130			
o-Xylene	2.39	0.0250	2.50		95.6	70-130			
o,m-Xylene	4.74	0.0500	5.00		94.9	70-130			
Total Xylenes	7.13	0.0250	7.50		95.1	70-130			
Surrogate: Bromofluorobenzene	0.579		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			
LCS Dup (2448005-BSD1)						I	Prepared: 1	1/25/24 Aı	nalyzed: 11/26/24
Benzene	2.38	0.0250	2.50		95.2	70-130	1.14	23	
Ethylbenzene	2.36	0.0250	2.50		94.3	70-130	2.80	27	
Toluene	2.38	0.0250	2.50		95.1	70-130	3.05	24	
p-Xylene	2.36	0.0250	2.50		94.5	70-130	1.14	27	
p,m-Xylene	4.69	0.0500	5.00		93.9	70-130	1.08	27	
Total Xylenes	7.06	0.0250	7.50		94.1	70-130	1.10	27	
Surrogate: Bromofluorobenzene	0.528		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		100	70-130			



QC Summary Data

		QU D	u	ary Data					
Hilcorp Energy Co PO Box 61529		Project Name: Project Number:	1	alty Dog SWD 7051-0002	1				Reported:
Houston TX, 77208		Project Manager:	8	tuart Hyde					12/3/2024 6:55:27AM
	No	nhalogenated (Organics	by EPA 801	5D - G	RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2448005-BLK1)							Prepared: 1	1/25/24 A	nalyzed: 11/26/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		95.0	70-130			
Surrogate: Toluene-d8	0.537		0.500		107	70-130			
LCS (2448005-BS2)							Prepared: 1	1/25/24 A	nalyzed: 11/26/24
Gasoline Range Organics (C6-C10)	43.2	20.0	50.0		86.4	70-130			
Surrogate: Bromofluorobenzene	0.541		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93 .7	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			
LCS Dup (2448005-BSD2)							Prepared: 1	1/25/24 A	nalyzed: 11/26/24
Gasoline Range Organics (C6-C10)	47.1	20.0	50.0		94.2	70-130	8.63	20	
Surrogate: Bromofluorobenzene	0.568		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.1	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			



QC Summary Data

		\mathbf{v}		ary Data					
Hilcorp Energy Co PO Box 61529		Project Name: Project Number:		Salty Dog SWD 1 7051-0002					Reported:
Houston TX, 77208		Project Manager:	S	Stuart Hyde					12/3/2024 6:55:27AM
	Nonh	alogenated Org	anics by	EPA 8015D	- DRO	/ORO			Analyst: AF
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2448006-BLK1)							Prepared: 1	1/25/24 A	nalyzed: 11/25/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.7		50.0		95.4	50-200			
LCS (2448006-BS1)							Prepared: 1	1/25/24 A	nalyzed: 11/25/24
Diesel Range Organics (C10-C28)	251	25.0	250		100	38-132			
Surrogate: n-Nonane	51.3		50.0		103	50-200			
Matrix Spike (2448006-MS1)				Source: E	411241-	02	Prepared: 1	1/25/24 A	nalyzed: 11/25/24
Diesel Range Organics (C10-C28)	2670	125	250	3090	NR	38-132			M4
Surrogate: n-Nonane	54.4		50.0		109	50-200			
Matrix Spike Dup (2448006-MSD1)				Source: E	411241-	02	Prepared: 1	1/25/24 A	nalyzed: 11/25/24
Diesel Range Organics (C10-C28)	2660	125	250	3090	NR	38-132	0.374	20	M4
Surrogate: n-Nonane	49.5		50.0		99.1	50-200			



QC Summary Data

		QU D	u 11111	ary Data					
Hilcorp Energy Co PO Box 61529 Houston TX, 77208		Project Name: Project Number: Project Manager:		Salty Dog SWD 1 17051-0002 Stuart Hyde					Reported: 12/3/2024 6:55:27AM
		Anions l	by EPA	300.0/9056A					Analyst: JM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	
	00	6 6	00	0 0	,,,	,,,		,,,	
Blank (2448011-BLK1)							Prepared: 1	1/25/24	Analyzed: 11/26/24
Chloride	ND	20.0							
LCS (2448011-BS1)							Prepared: 1	1/25/24	Analyzed: 11/26/24
Chloride	251	20.0	250		101	90-110			
Matrix Spike (2448011-MS1)				Source: E	411240-0	04	Prepared: 1	1/25/24	Analyzed: 11/26/24
Chloride	1370	20.0	250	1040	131	80-120			M4
Matrix Spike Dup (2448011-MSD1)				Source: E	411240-0	04	Prepared: 1	1/25/24	Analyzed: 11/26/24
Chloride	1390	20.0	250	1040	140	80-120	1.64	20	M4

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



		Demitions		
ſ	Hilcorp Energy Co	Project Name:	Salty Dog SWD 1	
	PO Box 61529	Project Number:	17051-0002	Reported:
	Houston TX, 77208	Project Manager:	Stuart Hyde	12/03/24 06:55

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Chain of Custody

Client Information	Invoice Information		-		La	ib Us	ie On	ly				Т	AT			State	
Client: HEC	Company: HEC		Lab \	NO#			dot	Num	ber		1D	2D	3D	Std	NMICO	JUT	тх
Project Name: SOLHV OOD SWD1	Address:		Ē	1112	24	0	170	s1	.00	52							
Project Manager: Stuart Hyde	City, State, Zip:													,			
Address:	Phone:						Ana	lysis	is and Method					EPA Program			
City, State, Zip:	Email: MKIllough @ pillipa														SDWA C	WA	RCRA
Phone:	Miscellaneous:																
Email: Shyde @ ensolum.com	Miscellaneous: Altn: Mi+ch Mr Killoug	h		8	315										Compliance	Y	or N
. CC: Smahanay@ensolum.com	· · · · · · · · · · · · · · · · · · ·	, <u> </u>		8	by 8(12	3	0.0	s	Ĕ	tals	Å.			PWSID #		
	Information			8	RO	y 80	y 82	fe 3(l Z	ŝ	ž	Anio					
Time Date Sampled Matrix No. of Containers	Sample ID	La La La		DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg			Re	marks	
1205 11/21/21 Soil 1,402 HAOI	02 -		/	A	X	\mathbf{x}		\bigwedge	Ĺ								
1210 HAO	104	á	?		Τ												
1610 HAD	2@1	3	3		Γ			Π									
1612 HAO	3@2	4	1		Τ	Π		Π									
1615 HAO	3@4	5		Π				Π									
1618 V V HAO	1(0,2)	4	2	V	V	V		V									
Additional Instructions:						L	I	ı	1	<u> </u>	L	<u> </u>	L	L	I		
I, (field sampler), agent to the validity and authenticity of this sample. I a Sampled by:	n aware that tampering with or intentionally mislabeling the sar	mple locat	ion, da	te or t	ime of	collec	tion is	consid	iered fr	aud ar	nd may	be gro	oundsi	for lega	action.		
	a 37 Received by: (Signature) Da	1.22.	201	Time		27	<u> </u>				-				ist be received on ice temp above 0 but k		
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Relinquished by: (Signature) Date Tim	Received by: (Signature)	ate		Time	_				Keci	eived	i on i	ce:		<i>)</i> / N			
Relinquished by: (Signature) Date Tim	e Received by: (Signature) Da	ate		Time	-					: Tor		_ 2	7		<u> T3</u>		<u> </u>
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other		ontainer	Type	: g - A	lass	D - D	l olv/n	lastic	LAVG	i Ten	ip C er gla	ss. v	- VO7	•			
Note: Samples are discarded 14 days after results are reported u															the analysis of t	ne above	samples
is applicable only to those samples received by the laboratory wi											·						-

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Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

ructions: Please take note of any NO checkmarks.	ample Receipt	Checklist (SRC)		
re receive no response concerning these items within 24 hours of the date of	this notice, all the	samples will be analyzed as	requested.	
Client: Hilcorp Energy Co Date Rece	eived: 11/22/24	10:37	Work Order ID:	E411240
Phone: - Date Logg	ged In: 11/22/24	10:41	Logged In By:	Caitlin Mars
Email: shyde@ensolum.com Due Date:	: 12/02/24	17:00 (5 day TAT)		
Chain of Custody (COC)				
. Does the sample ID match the COC?	Yes			
2. Does the number of samples per sampling site location match the CC				
3. Were samples dropped off by client or carrier?	Yes	Carrier: Peter And	lerson	
. Was the COC complete, i.e., signatures, dates/times, requested analys				
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field,	Yes		Commen	nts/Resolution
i.e, 15 minute hold time, are not included in this disucssion.			commen	ness nessonation
Sample Turn Around Time (TAT) 5. Did the COC indicate standard TAT, or Expedited TAT?	Yes			
Sample Cooler				
7. Was a sample cooler received?	Yes			
3. If yes, was cooler received in good condition?	Yes			
9. Was the sample(s) received intact, i.e., not broken?	Yes			
0. Were custody/security seals present?	No			
1. If yes, were custody/security seals intact?	NA			
 Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received winnutes of sampling If we arrive the second due to preserve the second se	C Yes w/i 15			
3. If no visible ice, record the temperature. Actual sample temperatu	ure: $\underline{4^{\circ}C}$			
Sample Container				
4. Are aqueous VOC samples present?	No			
5. Are VOC samples collected in VOA Vials?	NA			
6. Is the head space less than 6-8 mm (pea sized or less)?	NA			
7. Was a trip blank (TB) included for VOC analyses?	NA			
8. Are non-VOC samples collected in the correct containers?	Yes			
9. Is the appropriate volume/weight or number of sample containers collect	ted? Yes			
Field Label				
20. Were field sample labels filled out with the minimum information: Sample ID?	Yes			
Date/Time Collected?	Yes			
Collectors name?	Yes			
Sample Preservation				
21. Does the COC or field labels indicate the samples were preserved?	No			
22. Are sample(s) correctly preserved?	NA			
24. Is lab filteration required and/or requested for dissolved metals?	No			
Multiphase Sample Matrix				
26. Does the sample have more than one phase, i.e., multiphase?	No			
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA			
Subcontract Laboratory				
28. Are samples required to get sent to a subcontract laboratory?	No			
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA		
Client Instruction				

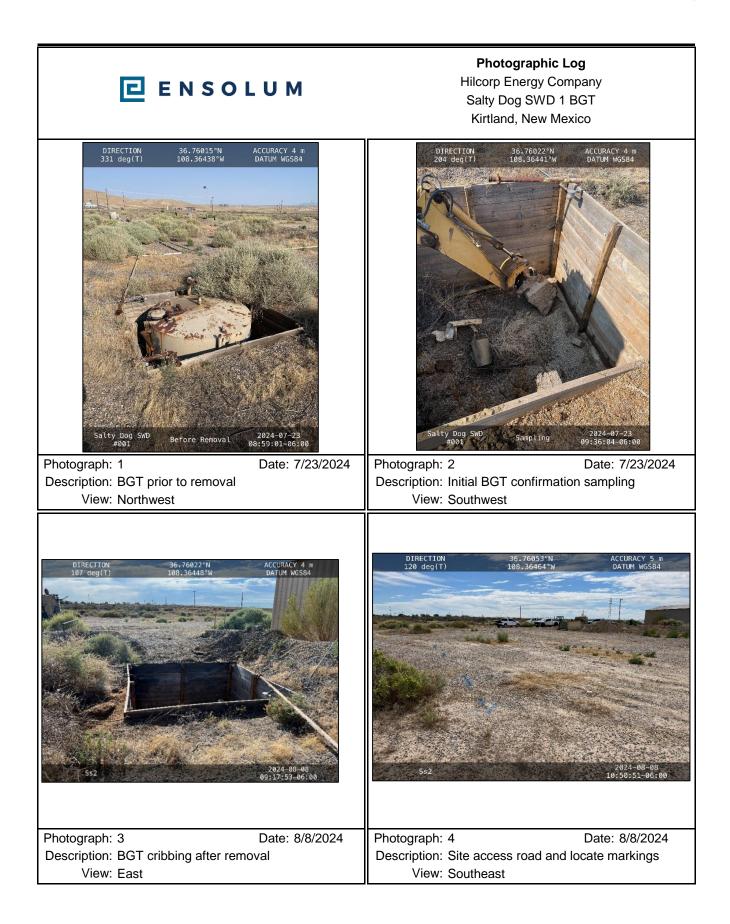


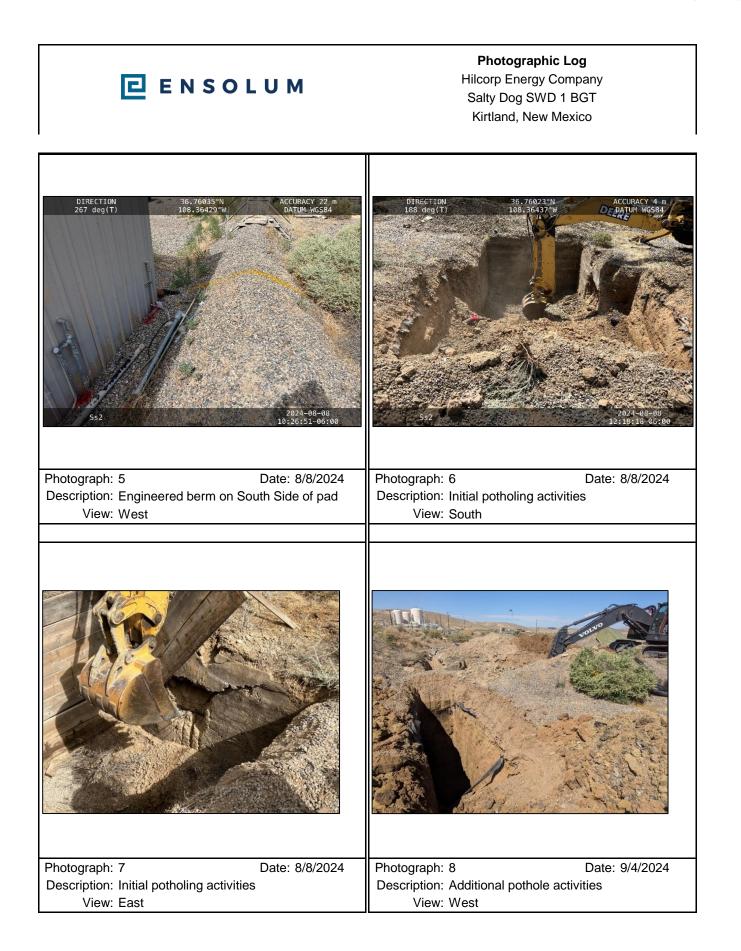
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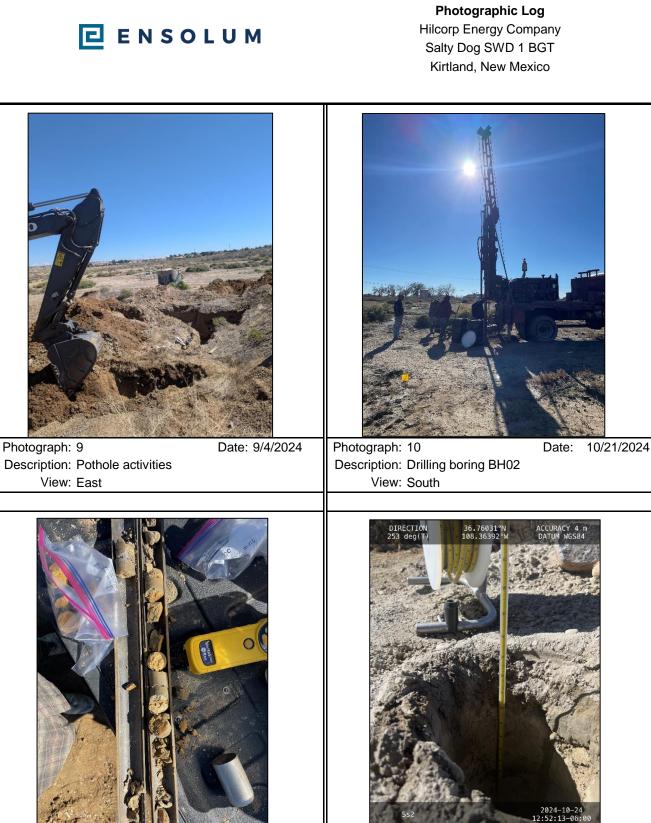


APPENDIX B

Photographic Log



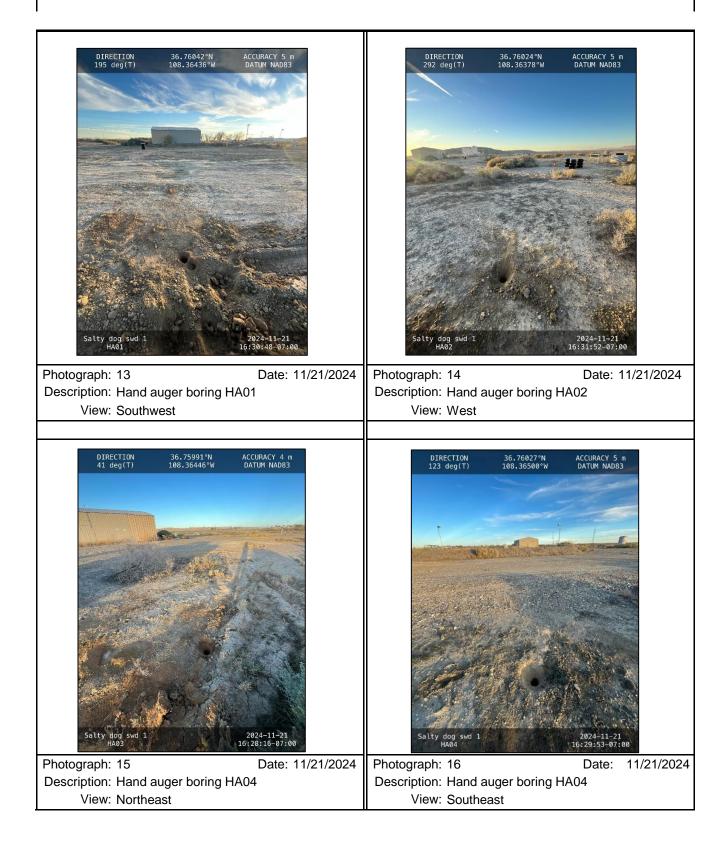




Photograph: 11Date: 10/22/2024Photograph: 12Date: 10/24/2024Description: BH03 20-21.5 feet below ground surface
View: NADescription: BH02 dry hole total depth
View: South



Photographic Log Hilcorp Energy Company Salty Dog SWD 1 BGT Kirtland, New Mexico





APPENDIX C

Field Borehole Logs and Drilling Reports

BOREHOLE ID Cilent HEC E ENSOLUM Project Name: Salty Dog #1 BGT BHo Project Location: 36.760096, -108.363714 Date: Project Manager: S. Hyde Project No.: Ground Surface Elevation: Borehole Diameter: Drilling Company: EnvrioDrill Top of Casing Elevation: Casing Diameter: NA Driller: Rochey & Tyler Drilling Equip: Latitude: See above/Field Map Well Materials: NA Surface Completion: NA Longitude: Logged By: Drilling Method: HSA Total Depth: a RECOVERY (%) SPT BLOW COUNT SAMPLE MOISTURE DEPTH (FEET) WELL Old (Wdd) uscs GEOLOGIC DESCRIPTION COMPLETION 0 Note: 18 in split speen sampled @ end of each 5' interval 1 2 No Recovery 3 4 Shock in shoe 5 6 7 8 9 10-115 10 CL > Hard dry, yellow brown, silky day with my fine sand, filigh plasticity, dry, no odor 11 12 13 14 15-16.5 15 ML > soft, brown , they sauch fine silt CL > high plosticity chay@ 16 with oxd/red. / Tominations, dry, no odor 16 17 18 19 20-21.5 20 > flard silty clay, high plasticity in upper half with brittle highersilt in lower, oxidation staining thing hout, dry no odor 21 22 23 24 25

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	Equip	:					e Completion:	Longitude:		× .
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(FEET)	SAMPLE Interval	SPT BLOW COUNT	RECOVERY (%)	(Wdd) Qid	MOISTURE	nscs	GEOLOGIC DESCR	IPTION	WELL COMPLETION	
25 1 6 1 7 1		15:0-26:5	7			ML	Darkbrown with black i hard lawing ted sandy & plasticity, joxidation star Bottom No Gu en	organics presul; pery fine)siltino inving wo odor, dra	1	
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Project No:: Borshole Diameter: Ground Burtace Elevation: Drilling Company: EnvrioDrill Casing Diameter: NA Top of Casing Elevation: Drilling Equip: Well Materials: NA Longitude: Drilling Equip: Surface Completion: NA Longitude: Drilling Equip: Drilling Method: HSA Total Depth: Et the weak of the second secon	Project No: Bornhole Diameter: Groups any: EnviroDrill Drilling Company: EnviroDrill Casing Diameter: NA Top of Casing Elevation: Drilling Equip: Surface Completion: NA Longitude: Drilling Equip: Surface Completion: NA Longitude: Drilling Status Surface Completion: NA Longitude: Drilling Status Surface Completion: NA Longitude: Drilling Method: HSA Total Depth: End W Weil Method: HSA Total Depth: End W Weil Method: HSA Total Depth: 0 Will Method: HSA 1 2 3 Sign Barder: HAR 6 5 7 Sorface Completion: NA 1 Completion: NA 1 Sign Barder: HAR 2 Sign Barder: HAR 3 Sign Barder: HAR 4 Sorface Completion: NA 10 N 11 Completion: NA 12 N 13 NO 14 N 15 NO 16 NO 17 NO 18 NO								Btoz	1174
Drilling Company: EnvrioDrill Casing Diameter: NA Top of Casing Elevation: Drilling Foulp: Surface Completion: NA Latitude: Lagged By: Drilling Method: HSA Total Depth: Understate: Drilling Method: HSA Completion: NA 0 Drilling Method: HSA Total Depth: 1 Drilling Method: HSA Completion: NA 2 Some Depth: Completion: NA 3 Harding Between Completion: NA Completion: NA 4 Some Depth: Completion: NA 5 5 - 60.5 1000 ML 6 F - 60.5 1000 ML 7 Some Depth: Not plastic., Soft, dry, muthod explored N, han plastic., Soft, dry, muthod explored N, han plastic., Soft, dry, muthod explored Stiming 7 N Not plastic., Soft, dry, muthod explored Stiming 10 NO Y Same Departure explored Stiming 11 NO NO Cong plastic., Soft, dry,	Drilling Company: EnviroDrill Casing Diameter: NA Top of Casing Elevelion: Drilling Company: EnviroDrill Surface Completion: NA Latitude: Drilling Reup: Surface Completion: NA Longitude: Logged By: Drilling Method: HSA Total Depth: Et the surface Starta Completion: NA Longitude: O Starta Completion: NA Longitude: O Starta Completion: NA Completion: Value Starta Completion: Starta Completion: Value Starta Starta Value Stare Starta Value </th <th>Projec</th> <th>t No :</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Projec	t No :							
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$\frac{1}{1}$ $\frac{1}$	$\frac{1}{14} = \frac{1}{15} = \frac{1}{15} = \frac{1}{100} = \frac{1}{10$	Drillin	g Equip:				Surfa	ce Completion: NA	Longitude:	
0 1 1 1 2 3 4 5 5 5-6.5 100 ML 7 8 9 10 10 10 11 10-11.5 12 10 13 10	0 1 2 3 4 5 5 5 6 5 7 100 8 9 10 10 11 10 12 100 10 10 11 10 12 10 13 10 14 15 15 15 16 15 17 15 18 15	Logge	d By:				Drillin	ng Method: HSA	Total Depth:	
1 2 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5	1 1 2 3 4 5 5 5 6 5 7 8 9 10 10 10 11 10 12 10 13 10 14 15 15 100 16 15-16.5 17 100 18 15-16.5 18 10	DEPTH (FEET)	SAMPLE INTERVAL SPT BLOW COUNT	RECOVERY (%)	(M99) CII9	MOISTURE	uscs	GEOLOGIC DESCR	IPTION	
8 9 10 10 11 10 11 10 11 12 13 10 10 10 10 10 10 10 10 10 10	 8 9 10 11 10-11.5 100 11 12 12 12 13 14 15 15-16.5 100 16 15-16.5 100 16 17 18 	1 2 3 4 5 6	5-65	1 100			m	> sandy fine silt with minor hon plastic, soft, dry,	clay, yellowbrown, Mottled explred staining	- -
	16 [15-16.5 100] 17 [17] 18 [18] [15-16.5 100] 17 [18] [17] [18] [15-16.5 100] 18 [15-16.5 100] 18 [15-16.5 100] 15-16.5 100 16 [2] [14] [14] [14] [14] [14] [14] [14] [14	8 9 10 11 12 13	10-11.5	100			N/U	7 Same as above (sand silf Clay layer encountered @ Aavol high plasticity be white nodules/grains, ne	ll'bgs rown clay with vodor & ary	

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BOREHOLE ID Client: ENSOLUM Project Name: 2 Project Location: E Date: 2 0 Project Manager: Ground Surface Elevation: Borehole Diameter: Project No.: Top of Casing Elevation: Drilling Company: Casing Diameter: atitude: Well Materials: Driller: ongitude: Surface Completion: **Drilling Equip:** Total Depth: Drilling Method: Logged By: SPT BLOW COUNT WELL RECOVER) (%) MOISTURE NTERVAI DEPTH (FEET) OI4 USCE GEOLOGIC DESCRIPTION COMPLETION SAMP 25 ML > hard silf with laminated texture, oridation Staining "cpllow/fan. medium to hard density dry sho ador 25-2105 30 26 27 28 29 M hardilli 30 as above hard silt. contact 30 GP 30-31^{.5} 1 bys with grey well considered to the 31 poorty sorted cobble - gronular, dry, no 32 33 34 AL Sources slight odor in grey GP sources fill well comented/hard (lower half) dry, upper half - clayers sift brown, slight Prosticity hard, dry, no odor 96) 190 35 36 37 38 39 40-413 hardwilling Issame as grey above GP 40 41 42 43 45-465 50% AD 75ame as above 44 45 46 47 48 50-515 hord di 49 lling > Same sillstore as above 50 51 Page

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Project No.: Drilling Company: EnvrioDri Driller: Drilling Equip:			Proje Proje Bore Casin Well Surfa	nt: HEC het Name: Salty Dog #1 BGT het Location: 36.760096, -108.363714 het Manager: S. Hyde hole Diameter: ng Diameter: NA Materials: NA hete Completion: NA	BOREHOLE BH03 Date: 10/22/24 Ground Surface Elevation Top of Casing Elevation: Latitude: Longitude:	n:
DEPTH (FEET) (FEET) SAMPLE INTERVAL SPT BLOW COUNT	RECOVERY (%) DID	(PPM) MOISTURE	Drillin SCS	ng Method: HSA GEOLOGIC DESCF	Total Depth:	WELL
0 1 1 1 2 3 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 8 9 9 0 -			5	Backfill, No screaning or Dark brown Friable si with minor clay, moderate laminated texture in si	It with oxidations	COMPLETION Linig 23

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ogged		J.					ce Completion: Longitude:	
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DEPTH (FEET)	SAMPLE INTERVAL	SPT BLOW COUNT	RECOVERY (%)	(Wdd) QId	MOISTURE	uscs	GEOLOGIC DESCRIPTION	WELL COMPLETIO
25 26 27 28 29		25-26.5					> Mossive saudy silt. fire sound, yellow/ton with onidation staining, hard, dry no odor. - Bottom -	
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Proj	ect_ 5	alty	Dug Si	VI) Y	BE	\overline{T}								3-821		58
.002	tion <	San ilu	un Coin	44					i -					KyrHa	1	VM
Proje					notoch	— .							_ City _/	YMAN		VV-1
] Other							
	CLIENT HOLE NO.	DRILL DEPT FROM -	TH DRILL DEPTH	PERCOLA	TION	BIT	-	BIT	Dibio	NO. OF			1	FORM	ATION	
	2	44	50'				+		RING	SPLIT	CA	BN	1 SAI	DRILLED A	ND DEPTH	
<u> </u>	3	8	25				1									
마							1		-						~	
R							+									
1				1			-	-		3						
나							+			1			TT 20			
나									~			2		DIUM SOFT		
나														DIUM HARD		
N							+					·\		REMELY HA		· **
G							+									
							1							DWATER TAI	BLE ENCOU	NTERED
F	FOOTAGE						-		TOTA				YES			
						JUN			TOTAL	. SAMPLI	-5		GROUN	DWATER DEF	тн	
		SERVICE PE		QTY.	RATE	CH/	RGE			RENTAL				QTY.	RATE	CHARGE
62	MAKE REA BEFORE / A		TAMINATION -	.5				SUP	PORT VE	HICLE / 1	TRAILE	R				
12								GEN	ERATOR							
	DRILLING		EEQUIPMENT	.5				TRA	LER(S)							
	SAFETY M							COR	ING MAC	HINE / S	AW C	UT				
	DRILL OPE					+		BUL	ET TEET	н						
	REAMING							POR	FLAND C	EMENT				2		
		BETWEEN SIT	F(S)					PRE-	MIX							
			E(S) FEET	<u> </u>				ASP	HALT	5.						
	SITE CLEA							VISC	UEEN							
212			OR INCLUDES:			+		DRU	MS					1		
	DECONTAMINATION SERVICES							BRAS	SS SLEEV	ES, SIZE	:					
1								PVC	CASING			IN. X	5 FT.			
	CREW TR	AVEL WITHOU	UT RIG	.5				PVC	CASING			IN. X	10 FT.			
212	LABORER							SCR	EN .O	0 :	SLOT	IN. X	5 FT.			
212	WELL INS	TALLATION						SCR	EN .O	0 :	SLOT	IN. X	(10 FT.			
212	WELL DEV	ELOPMENT				1		TOP	LOCKING	CAP		6009 G				-
212	WELL ABA	ANDONMENT						BOT	TOM CAP							
250	STANDBY	& DELAYS (E	XPLAIN)	20				SAN	D-SACKS	, GRADE	NO.:					
212	CREW OV	ERTIME				1		WEL	L VAULT,	SIZE:		IN.				
-	PER DIEM							BENT	ONITE P	ELLETS,	PAILS			1	1	
212	MEAL / M	ISC. BREAKS	(DOT REQUIRED)			d.		BENT	ONITE P	OWDER,	SACK	S:			1	1
278	CREW BR	EAK			A	-		JACK	HAMM	R		1.0000			1	1
276	PERMITS	/ REPORTS				1		AIR	COMPRES	SSOR, SI	ZE:			1	1	1
277	SUPERVIS	ORY TIME							š.		01 - 20 - 20-				1	
REM	ARKS:	Waitin	y on a	Back	1.0											
	+. Z,	II in	Holes	JUIE	AUC	-										1
										T	UNIT NO.	STARTING	ENDING	TOTAL	RATE	CHARGE
								RIG		1	113					1
		MAN-HO	OUR ALLOCATION			но	URS	SUPP	ORT VEHI	CLE	1084					
OPE	RATOR	Rov	115			8										
ASS	ISTANT	TUL	X H			8.		RIG /	TRUCK D	OWN TIM	E, HOU	RS (EXPLA	N BELOW)		
LAB	ORER		· · · · ·			0.	-	DAMA	GED OR L	OST EQUI	MENT					
	-	SIGNATURE	APPROVING WOR	RK CONTE	NT -		_									
CLIE	ENT SIGNATL		51													
P.0	./ W.O./ JOB	NO.:	1	~												
10				-	Wh	ite – I	nvoici	ng; Yel	low - Cli	ent						

Enviro-Drill

DAILY DRILLING REPORT

Page 220 of 221 JOB COMPLETED YES NO NO. JOBS THIS DAY 3

Clien	E	nisolum							Da	te/0-	23	-24 s	tert: 7	10	End:	2:20
Proie		1 hg D	By SH	VD 8	B	GT						Job	No. Z	2 - 81	4	168 NM
		in Juan	2 C.Jurt	<u>ن</u> ے									City /	Kirt		nm
Loca		Cin Jridi			atach		0-		0.1					() / / /		
Proje	ct Type:		the second se			The second se		_	Uther		the second s					
	CLIENT HOLE NO.	DRILL DEPTH	DRILL DEPTH	PERCOLA	TION	BIT SIZE	BI	PE	RING	NO. OF S	CA	ES BN	-	FOR	MATION AND DEPT	н
	HOLL NO.													ID		
													ี 🗌 รแส			
D														Y		
R-								-								
!-																
나															-	
나												_		OUM SOFT		
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N															AND	
G														and a server	BLE ENCOU	NTERED
				<u> </u>										NO NO		
	FOOTAG	E DRILLED		DRILL RAT	E PER HO	UR				SAMPLE			GROUND	WATER DE		
UNCT	ION	SERVICE PERFO	ORMED	QTY.	RATE	CHAR	GE		the second se	RENTALS	the second s	the second s		QTY.	RATE	CHARGE
262		ADY / DECONTAN	MINATION -	10			-			HICLE / T	RAILE	R		+/-	+	
		AFTER JOB		1.0		. 		GENEF								
	and the second second	/ DEMOBILIZE E	QUIPMENT	4.0			-11	TRAIL	84	HINE / SA	AW CU	r			1	
212	SAFETY N						\square		T TEET						1	
	DRILL OP	ERATIONS							AND C	-						
	REAMING	HOLE(S)					_lt	PRE-M								
	MOVING	BETWEEN SITE(S	S)				F	ASPHA	ALT .							
	GROUTIN	G, HOURS	_ FEET				-11	VISQU	EEN							
	SITE CLE		110111055				-10	DRUMS	S							
212	DECONTA	ANEOUS LABOR	INCLODES:					-		ES, SIZE:	•		5 FT.			
	MOVING						11-	PVC C	ANADA ANT NE SED			5400625	10 FT.			
		AVEL WITHOUT	RIG				- 11-	PVC C/		0 5	TOT		5 FT.			
212	LABORER						- 11-	SCREE		0 s			10 FT.			
212	WELL INS	TALLATION			2 2 / N / N			Carlo Marca Salaria	CKING	CAP					1	
212	WELL DE	VELOPMENT					-1F	BOTTO	M CAP						1	
212		ANDONMENT				-	-11	SAND-S	SACKS,	GRADE	NO.:					
		& DELAYS (EXPL	LAIN)				$\neg \Box$	WELL \	AULT, S	SIZE:		IN.				
	CREW OV						٦Ľ	BENTO	NITE PE	LLETS, P	PAILS:					1
-		ISC. BREAKS (DC	OT REQUIRED)						_	WDER, S	SACKS	:				
	CREW BR								AMME		r.					2-
276	PERMITS	/ REPORTS						AIH CO	MPRES	SOR, SIZ	E:	<u> </u>		l		
	SUPERVIS						┛┠									
REM	ARKS:						_l ⊢									
		-					-1 F	EQU	JIPMENT	14	NO. I	MILEAGE	ENDING	TOTAL	RATE	CHARGE
							-10	RIG			13					
		MANUOUD	ALLOCATION			HOURS	10	SUPPOR	T VEHIC	LE 10	184					1
	PATOP	Rod /	B			5.0	٦ ٢									
_	ISTANT	Tyler	H			5.0	<u> </u>	RIG / TRI	UCK DO	WN TIME,	HOUR	S (EXPLA)	N BELOW)			
LABO	ORER							DAMAGE	D OR LO	ST EQUIPN	MENT: _					
	_	SIGNATURE AP	PROVING WOR	K CONTEN	IT -		11-								1	
CLIE	NT SIGNATL	IRE:	///				·		· · · · · · · · · · · · · · · · · · ·				1			
		ن ۱۹	/ /						. Constant				<u> </u>			
P.O./	W.O./ JOB															

Emethesia to Imaging: 12/26/2024 1:46:16 PM

White - Invoicing; Yellow - Client

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

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CONDITIONS

Action 415123

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 Operator:
 HILCORP ENERGY COMPANY

 1111 Travis Street
 372171

 Houston, TX 77002
 Action Number:

 415123
 415123

 Action Type:
 [C-144] Below Grade Tank Plan (C-144B)

CONDITIONS		
Created By	Condition	Condition Date
jeffrey.harrison	The closure report and modification of the estimate to the depth of groundwater to greater than 51 feet below ground surface for the below ground tank (BGT1) for the Salty Dog SWD 1 (30-045-29946) has been approved. Please note that at the time of approval, however, closure and remediation activities for the site remain ongoing from a historical release that was discovered after removing and sampling under the tank that was reported to the division under incident number nAPP2430352742. The operator will continue to work with the NMOCD's incident group to ensure successful remediation and closure requirements for the location.	12/26/2024