Page 1 of 131

NAPP2205926232 Incident ID District RP Facility ID **Application ID**

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	285 (ft bgs)
Did this release impact groundwater or surface water?	Yes No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	
Are the lateral extents of the release overlying an unstable area such as karst geology?	
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☐ No ☐ Yes ☐ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver	

contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
Field data
☐ Data table of soil contaminant concentration data ☐ Depth to water determination
Deput to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
Boring or excavation logs
Photographs including date and GIS information
Topographic/Aerial maps
X Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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Incident ID	NAPP2205926232
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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: Karen Charles	Title: Sr. Production & Regulatory Analyst				
Signature: Karen Charles	Date: _01/05/2023				
mail: kcharles@faulenergy.com Telephone: 903-581-4382					
OCD Only					
Received by:	Date:				

te of New Mexico

Incident ID	NAPP2205926232
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Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e included in the plan.				
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation points □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC □ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 					
<u>Deferral Requests Only</u> : Each of the following items must be con	firmed as part of any request for deferral of remediation.				
Contamination must be in areas immediately under or around predeconstruction.	roduction equipment where remediation could cause a major facility				
Extents of contamination must be fully delineated.					
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.				
I housely contify that the information airon above is two and comple	to to the heat of my lime aviled as and am demote and that assessment to OCD				
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of				
Printed Name:	Title:				
Signature:	Date:				
email:	Telephone:				
OCD Only					
Received by:	Date:				
☐ Approved ☐ Approved with Attached Conditions of	Approval				
Signature:	Date:				

Received by OCD: 1/13/2023 8:16:48 AM Form C-141 State of New Mexico
Page 6 Oil Conservation Division

Incident ID NAPP2205926232
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Facility ID
Application ID

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

	ntegrity if applicable (Note: appropriate OCD District office			
	ntegrity if applicable (Note: appropriate OCD District office			
must be notified 2 days prior to liner inspection)				
☐ Laboratory analyses of final sampling (Note: appropriate ODC District of	ice must be notified 2 days prior to final sampling)			
Description of remediation activities				
I hereby certify that the information given above is true and complete to the best and regulations all operators are required to report and/or file certain release not may endanger public health or the environment. The acceptance of a C-141 repshould their operations have failed to adequately investigate and remediate cont human health or the environment. In addition, OCD acceptance of a C-141 report compliance with any other federal, state, or local laws and/or regulations. The restore, reclaim, and re-vegetate the impacted surface area to the conditions that accordance with 19.15.29.13 NMAC including notification to the OCD when restore. Printed Name: Karen Charles Title: Signature: Karen Charles Date: 01/0 email: kcharles@faulenergy.com Telephone:	ifications and perform corrective actions for releases which ort by the OCD does not relieve the operator of liability amination that pose a threat to groundwater, surface water, rt does not relieve the operator of responsibility for esponsible party acknowledges they must substantially existed prior to the release or their final land use in clamation and re-vegetation are complete. Production & Regulatory Analyst			
OCD Only				
	o:			
Closure approval by the OCD does not relieve the responsible party of liability s remediate contamination that poses a threat to groundwater, surface water, huma party of compliance with any other federal, state, or local laws and/or regulation	health, or the environment nor does not relieve the responsible			
Closure Approved by: [ate:			
Printed Name:				



January 12, 2023

#5E31369-BG01

NMOCD District 2 506 W. Texas Artesia, New Mexico 88210

SUBJECT: Closure Report for the Antelope Sink #001 Release (nAPP2205926232), Eddy County, New Mexico

To Whom It May Concern:

On behalf of FE-NM, LLC, Souder, Miller & Associates (SMA) has prepared this Closure Report that describes the remediation of a release of liquids related to oil and gas production activities at the Antelope Sink Unit #001 site. The site is in Unit G, Section 18, Township 19S, Range 24E, Eddy County, New Mexico, on State land. Figure 1 illustrates the vicinity and site location on a United States Geological Service (USGS) 7.5-minute quadrangle map.

Table 1 summarizes information regarding the release.

Table 1: Release Information and Closure Criteria						
Site Name	Antelope Sink Unit #001	Operator FE-NM, LLC				
API Number	30-015-10041 Location 32.66316, -104.62593					
Tracking Number	N/	APP2205926232	!			
Estimated Date of Release	2/17/2022	7/2022 Date Reported to 2/18/2022 NMOCD				
Land Owner	New Mexico State Land Reported To NMOCD					
Source of Release	Valve froze which caused the incident					
Released Volume	21 BBL Released Material Produced Water					
Recovered Volume	0 BBL Net Release 21 BBL					
NMOCD Closure Criteria	<50 feet to groundwater					
SMA Response Dates	March 30, 2022; May 20, 2022; and December 15, 2022					

Antelope Sink Well #001 Remediation Closure Report January 12, 2023

Page 2 of 5

1.0 Background

On February 17, 2022, a release was discovered at the Antelope Sink Unit #001 site due to a frozen valve. Initial response activities were conducted by operator, and included source elimination, containment, and site stabilization activities. Figure 1 illustrates the vicinity and site location. Figures 2 and 3 illustrate the release location. The release notification form is included in Appendix A.

2.0 Site Information and Closure Criteria

The Antelope Sink Unit #001 is an active production facility located approximately 18 miles southwest of Artesia, New Mexico on State land at an elevation of approximately 3,823 feet above mean sea level (amsl).

Depth to Groundwater

A search of the New Mexico Office of the State Engineer (NMOSE) New Mexico Water Rights Reporting System and the USGS National Water Information System did not report any wells within ½-mile of the site. Based on records of wells within the larger vicinity, depth to groundwater in the area is estimated to be an average of 382 feet below grade surface (bgs). The minimum reported depth is 285 feet bgs and the maximum is 480 bgs. Water well documentation is included in Appendix B and registered wells in the vicinity are illustrated on Figure 1.

Wellhead Protection Area

There are no known water sources within ½-mile of the location, according to the NMOSE online water well database.

Distance to Nearest Significant Watercourse

The nearest significant watercourse is an unnamed tributary of the Fourmile Draw, located approximately 2,554 feet to the northwest.

Antelope Sink Unit #001 will be restored to meet the standards of Table I of 19.15.29.12 NMAC. Table 2 demonstrates the Closure Criteria applicable to this location. Figure 2 illustrates the site with 200 and 300-foot radii to indicate that it does not lie within a sensitive area. The site is not considered an "exploration, development, production or storage site" and therefore the top four feet must be remediated to the most stringent standards. Additionally, the release area did not occur on land considered "in-use", as outlined by 19.15.29.13.D NMAC. Therefore, the release area shall be reclaimed within the upper four feet to meet the standards of 19.15.29.13.D(1).

Based on the information presented herein, the applicable New Mexico Oil Conservation Division (NMOCD) Closure Criteria for this site is for a groundwater depth of less than 50 feet bgs in addition to the requirements of reclamation for the upper four feet of impacted soil.

3.0 Remediation Activities

Site characterization including delineation is detailed in the SMA's Remediation Plan dated June 6, 2022. Per the approved plan, SMA returned to the site to guide/oversee the excavation of contaminated soil beginning on December 05, 2022. SMA guided the excavation activities by collecting soil samples for field screening. Samples were screened for chloride using an electrical conductivity (EC) meter. The walls and base were excavated until field screening results indicated that the NMOCD Closure Criteria would be met. NMOCD was notified on December 13, 2022, that closure samples were expected to be collected in two (2) business days. A copy of this notification is included in Appendix C.

Antelope Sink Well #001 Remediation Closure Report January 12, 2023

Page 3 of 5

On December 15, 2022, SMA conducted confirmation sampling activities at the site. Confirmation samples were comprised of five-point composites collected from the base (CBS1 – CBS15) and walls (CSW1 – CSW16) of the excavation. A photolog is included in Appendix D.

A total of 31 samples were collected for laboratory analysis for total chloride using Environmental Protection Agency (EPA) Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D. Laboratory samples were collected in accordance with the sampling protocol included in Appendix E. Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico .

Figure 3 shows the extent of the final excavation and closure sample locations. Laboratory results are summarized in Table 3. The laboratory report is included in Appendix F.

4.0 Site Recommendations

As demonstrated in Table 3, all closure samples meet the Closure Criteria. The site has been remediated to meet the standards of Table I of 19.15.29.12 NMAC.

Contaminated soils were removed and replaced with clean backfill material to return the surface to previous contours. The contaminated soil was transported and disposed of at R360 Environmental Solutions midway between Carlsbad and Hobbs, New Mexico, an NMOCD-permitted disposal facility.

SMA recommends no further action and requests closure of Incident Number nAPP2205926232.

5.0 Scope and Limitations

The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation; and preparing this report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Lynn Acosta at 505-516-7469 or Heather Woods at 505-716-2787.

Submitted by:

SOUDER, MILLER & ASSOCIATES

Reviewed by:

Lynn A. Acosta

Staff Scientist

Lynn A. Acosta

Heather M. Woods, P.G. Project Geoscientist

Heather M. Woods

REFERENCES:

New Mexico Office of the State Engineer (NMOSE) online water well database https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 6/5/2022

ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map

Figure 2: Surface Water Radius Map

Figure 3: Confirmation Sample Location Map

Tables:

Table 2: NMOCD Closure Criteria Justification

Table 3: Summary of Confirmation Sample Results

Appendices:

Appendix A: Form C141

Appendix B: NMOSE Wells Report

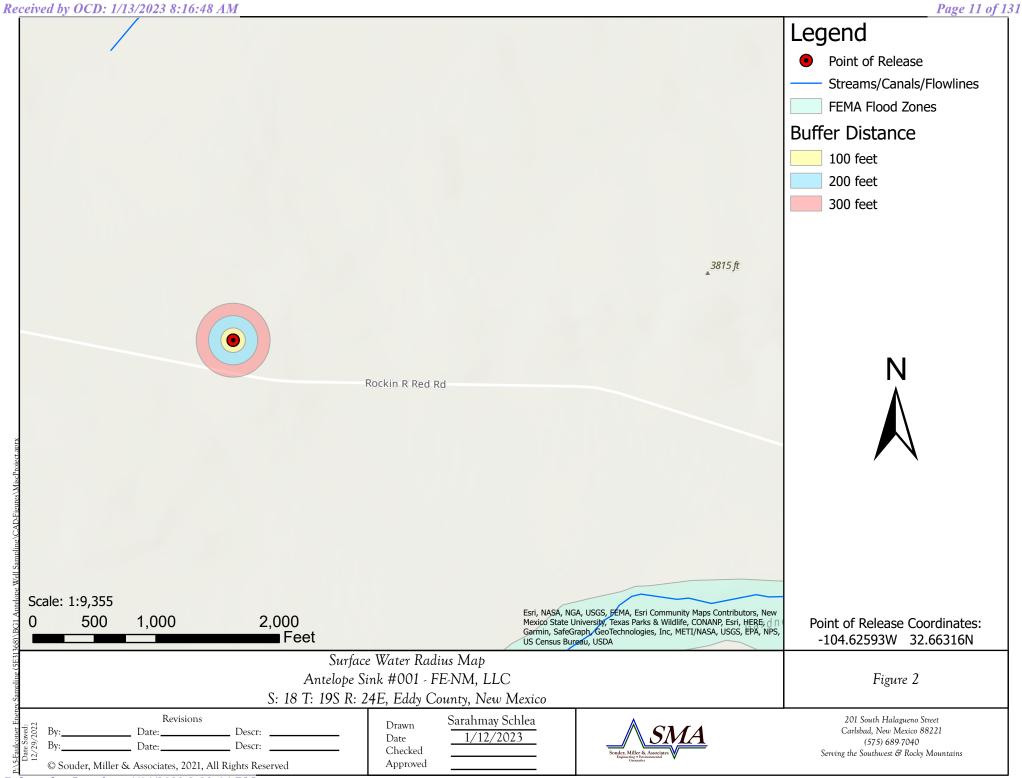
Appendix C: Correspondence

Appendix D: Photolog

Appendix E: Sampling Protocol

Appendix F: Laboratory Analytical Report

FIGURES



Descr: © Souder, Miller & Associates, 2021, All Rights Reserved

Revisions

____ Descr:

Drawn Date Checked

Approved

Sarahmay Schlea 1/12/2023

201 South Halagueno Street Carlsbad, New Mexico 88221 (575) 689-7040 Serving the Southwest & Rocky Mountains

TABLES

Table 2: NMOCD Closure Criteria

FE-NM, LLC Antelope Sink Unit #001

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)	Source/Notes			
Depth to Groundwater (feet bgs) 285		New Mexico Office of the State Engineer		
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	None	United States Geological Survey		
Hortizontal Distance to Nearest Significant Watercourse (ft)	2554	Unnamed tributary of the Fourmile Draw		

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
	Closure Criteria (units in mg/kg)					
Depth to Groundwater	Chloride *numerical limit or background, whichever is greater	ТРН	GRO + DRO	втех	Benzene	
< 50' BGS	Х	600	100		50	10
51' to 100'		10000	2500	1000	50	10
>100'		20000	2500	1000	50	10
Surface Water		if ye	s, then			
<300' from continuously flowing watercourse or other significant watercourse? <200' from lakebed, sinkhole or playa lake? Water Well or Water Source	No No					
<500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes? <1000' from fresh water well or spring?	No No					
Human and Other Areas		600	100		50	10
<300' from an occupied permanent residence, school, hospital, institution or church?	No					
within incorporated municipal boundaries or within a defined municipal fresh water well field?	No					
<100' from wetland?						
within area overlying a subsurface mine	No					
within an unstable area?	No(Med.Risk)					
within a 100-year floodplain?	No					

Table 3: Summary of Confirmation Sample Results

FE-NM, LLC Antelope Sink Well #1

		Depth of Sample	Action	Method 8021B		Method 8015D				Method 300.0
Sample ID	Sample Date	(feet bgs)	Taken	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-
				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	NMOCD	Closure Criteria		50	10		-		100	600
CBS1			In-Situ	<0.217	<0.024	<4.8	<15	<50	<69.8	<60
CBS2			In-Situ	<0.220	<0.024	<4.9	<9.3	<47	<69.9	<60
CBS3			In-Situ	<0.220	<0.024	<4.9	<13	<43	<60.9	<60
CBS4			In-Situ	<0.217	<0.024	<4.8	<13	<43	<60.8	<60
CBS5			In-Situ	<0.220	<0.024	<4.9	<15	<48	<67.9	<60
CBS6			In-Situ	<0.220	<0.024	<4.9	<9.6	<48	<62.9	<60
CBS7		5'	In-Situ	<0.219	<0.024	<4.9	<15	<49	<68.9	<60
CBS8	12/15/2022		In-Situ	<0.222	<0.025	<4.9	<14	<48	<66.9	<60
CBS9			In-Situ	<0.222	<0.025	<4.9	<13	<43	<60.9	<60
CBS10			In-Situ	<0.216	<0.024	<4.8	<14	<47	<65.8	<60
CBS11			In-Situ	<0.220	<0.024	<4.9	<15	<50	<69.9	<60
CBS12			In-Situ	<0.225	<0.025	<5.0	<14	<46	<65	<60
CBS13			In-Situ	<0.220	<0.024	<4.9	<13	<45	<62.9	<60
CBS14			In-Situ	<0.217	<0.024	<4.8	<13	<43	<60.8	<60
CBS15		2	In-Situ	<0.224	<0.025	<5.0	<14	<46	<65	<60
CSW1			In-Situ	<0.217	<0.024	<4.8	<15	<50	<69.8	<60
CSW2			In-Situ	<0.217	<0.024	<4.8	<15	<49	<68.8	<60
CSW3		-1	In-Situ	<0.221	<0.025	<4.9	<15	<48	<67.9	<60
CSW4		5'	In-Situ	<0.225	<0.024	<5.0	<14	<47	<66	<60
CSW5			In-Situ	<0.216	<0.024	<4.8	<15	<49	<68.8	<60
CSW6			In-Situ	<0.219	<0.024	<4.9	<14	<45	<63.9	<60
CSW7			In-Situ	<0.222	<0.025	<4.9	<13	<44	<61.9	<60
CSW8		2	In-Situ	<0.219	<0.024	<4.9	<15	<49	<68.9	<60
CSW9	12/15/2022		In-Situ	<0.221	<0.025	<4.9	<14	<45	<63.9	<60
CSW10		5'	In-Situ	<0.221	<0.025	<4.9	<15	<49	<68.9	<60
CSW11			In-Situ	<0.216	<0.024	<4.8	<15	<49	<68.8	<60
CSW12			In-Situ	<0.219	<0.024	<4.9	<14	<47	<65.9	<60
CSW13			In-Situ	<0.220	<0.024	<4.9	<14	<47	<65.9	<60
CSW14	 		In-Situ	<0.216	<0.024	<4.8	<13	<43	<60.8	<60
CSW15			In-Situ	<0.219	<0.024	<4.9	<13	<44	<61.9	<60
CSW16			In-Situ	<0.217	<0.024	<4.8	<14	<47	<65.8	<60
C34410	!	!!	III JILU	! \0.21/	10.027	`+.0	`	. ` ` '	1 103.0	``

"-" = Not Analyzed

BG: Background sample

APPENDIX A FORM C141

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	NAPP2205926232
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Party FE-	NM, LLC		OGRID 331102					
Contact Nan	ne Karer	n Charles		Contact Telephone 903-581-4386, Ext. 233					
Contact ema	^{il} kcharle	es@faulenerg	ev.com		Incident # (assigned by OCD) NAPP2205926232				
Contact mail		PO Box 799		711					
		1 0 Bon 199	, , , , , , , , , , , , , , , , , , ,	1 101					
			Location	of R	elease So	ource			
Latitude 3	2.66316				Longitude	-104.62593			
Zatitude	2.00310		(NAD 83 in de	ecimal de	grees to 5 decim				
Site Name	Antalana	Siple I Init #0)O1		Site Type	Gas Well			
4		Sink Unit #0 2/17/2022	<i>J</i> 01		API# (if appl				
	Disco vereu	2/11/2022			TII In (y uppr	30-013-10041			
Unit Letter	Section	Township	Range		Count	ty			
G	18	19S	24E	Ed	ldy				
	1	<u>I</u>	I.	1					
Surface Owne	r: X State	Federal T	ribal Private (Name:)			
			Nature and	d Vol	lume of R	Palassa			
			Nature and	u vo	iume of iv	Cicase			
Crude Oi		Volume Released		h calculat	tions or specific justification for the volumes provided below) Volume Recovered (bbls)				
X Produced	Water	Volume Release	` ' 41	bbls		Volume Recovered (bbls) 0 bbls			
Is the concentration of dissolved chloric produced water >10,000 mg/l?					de in the X Yes No				
Condensa	ate	Volume Release				Volume Recovered (bbls)			
Natural C	j as	Volume Release	ed (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units				le units	s) Volume/Weight Recovered (provide units)				
				,		5			
Cause of Rel	ease								
		ch caused the	e incident						
, 41, 51	102 0 Will	on oddsod the							

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Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the respon	nsible party consider this a major release?								
19.15.29.7(A) NMAC?										
☐ Yes 🏻 No										
If YES, was immediate no	If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?									
Initial Response										
The responsible p	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury								
X The source of the rele	ease has been stopped.									
The impacted area has been secured to protect human health and the environment.										
Released materials ha	ave been contained via the use of berms or c	likes, absorbent pads, or other containment devices.								
X All free liquids and re	ecoverable materials have been removed and	d managed appropriately.								
If all the actions described	d above have <u>not</u> been undertaken, explain	why:								
		so, the water soaked into the ground before								
leaving the tank	battery area.									
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred blease 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: Karen	Charles	Title: Production Analyst								
Signature: Karen C.	Vharles	Date: <u>2/18/2022</u>								
email: kcharles@fa	aulenergy.com	Telephone: 903-581-4386, Ext. 233								
OCD Only										
Received by:Jocelyr	n Harimon	Date: _07/11/2022								

Antelope Sink #1 – API# 30-015-10041 (nAPP2205926232)

Calculation of salt water released based off of last known tank gauges showing approx. 21 bbls of salt water prior to the discovery of the leak.

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

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

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

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

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

CONDITIONS

Action 124016

CONDITIONS

	0.0010
Operator:	OGRID:
FE-NM, LLC	331102
1001 E SE Loop 323, STE. 160	Action Number:
Tyler, TX 75711	124016
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	7/11/2022

APPENDIX B NMOSE WELLS REPORT



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)

closed) (quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Sub-

		Sub-		Q	QQ)							V	Vater
POD Number	Code	basin	County	64 1	6 4	Sec	Tws	Rng	X	Y	DistanceDepthWellDepthWater Colum			olumn
<u>RA 07942</u>		RA	ED	4	2 2	13	19S	23E	533987	3614242* 🌑	1114	2900		
<u>RA 07466</u>		RA	ED		2	13	19S	23E	533686	3614137*	1396	627	480	147
<u>RA 07466 CLW</u>		RA	ED		2	13	19S	23E	533686	3614137*	1396	288		
<u>RA 06777</u>		RA	ED		4 1	07	19S	24E	534686	3615577*	1617	800		
RA 12972 POD1		RA	ED	3	2 1	13	19S	23E	532998	3614250 🌑	2092	321	285	36

Average Depth to Water:

382 feet

Minimum Depth:

285 feet

Maximum Depth:

480 feet

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 535076.34

Northing (Y): 3614007.63

Radius: 2500

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/25/22 5:42 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

APPENDIX C CORRESPONDENCE

From: Enviro, OCD, EMNRD

To: <u>Lynn Acosta</u>

Cc: <u>Bratcher, Michael, EMNRD</u>: <u>Hamlet, Robert, EMNRD</u>

Subject: RE: [EXTERNAL] Antelope Sink Well #1 nAPP2205926232

Date: Tuesday, December 13, 2022 8:15:31 AM

Attachments: <u>image001.jpg</u>

image002.png image003.png image004.png image005.png

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

http://www.emnrd.nm.gov



From: Lynn Acosta < lynn.acosta@soudermiller.com>

Sent: Tuesday, December 13, 2022 5:13 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD

<Robert.Hamlet@emnrd.nm.gov>

Subject: RE: [EXTERNAL] Antelope Sink Well #1 nAPP2205926232

Good Morning,

Souder Miller and Associates (SMA) would like to notify you that SMA will commence confirmation sampling at the Antelope Sink Well #1 for incident nAPP2205926232. SMA personnel are scheduled to arrive on Thursday, December 15th, 2022, to conduct the confirmation sampling at 8:00 am.

If there are any questions/concerns, please feel free to reach out to me.

_

Lynn Acosta, Staff Scientist

Mobile: 505-516-7469



201 W. Halagueno St Carlsbad, NM 88220

From: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Sent: Friday, December 9, 2022 8:57 AM

To: Lynn Acosta < <u>lynn.acosta@soudermiller.com</u>>; Enviro, OCD, EMNRD

<<u>OCD.Enviro@emnrd.nm.gov</u>>

Cc: Bratcher, Michael, EMNRD < mike.bratcher@emnrd.nm.gov >; Hamlet, Robert, EMNRD

<<u>Robert.Hamlet@emnrd.nm.gov</u>>

Subject: RE: [EXTERNAL] Antelope Sink Well #1 nAPP2205926232

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

http://www.emnrd.nm.gov



From: Lynn Acosta < lynn.acosta@soudermiller.com>

Sent: Friday, December 9, 2022 5:24 AM

To: Enviro, OCD, EMNRD < < OCD. Enviro@emnrd.nm.gov >

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD

<<u>Robert.Hamlet@emnrd.nm.gov</u>>

Subject: RE: [EXTERNAL] Antelope Sink Well #1 nAPP2205926232

All,

Due to some unforeseen circumstances during excavation. Confirmation sampling has been moved to next week, there will be another email sent out as soon as there is a confirmed date of the confirmation sampling. I just viewed this email and responded to the original notice I sent out so there might be two emails saying this.

Thank you for clarifying on the notice requirements.

Please let me know if you have any questions/concerns.

From: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Sent: Thursday, December 8, 2022 8:30 AM

To: Lynn Acosta < <u>lynn.acosta@soudermiller.com</u>>

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD

<Robert.Hamlet@emnrd.nm.gov>

Subject: RE: [EXTERNAL] Antelope Sink Well #1 nAPP2205926232

Please be aware that notification requirements are **two business days**, per rule. Please proceed on your schedule. Also, please include this, and all correspondence, in the closure report to insure inclusion in the project file.

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | <u>Jocelyn.Harimon@emnrd.nm.gov</u>

http://www.emnrd.nm.gov



From: Lynn Acosta < <u>lynn.acosta@soudermiller.com</u>>

Sent: Wednesday, December 7, 2022 7:06 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov >

Cc: Karen Charles < kcharles@faulenergy.com >; Lupe Mendoza < lmendoza@faulenergy.com >; Chris Nakvinda < cnakvinda@faulenergy.com >; Heather Woods < Heather.Woods@soudermiller.com >

Subject: [EXTERNAL] Antelope Sink Well #1 nAPP2205926232

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

Souder Miller and Associates (SMA) would like to notify you that SMA will commence confirmation

sampling at the Antelope Sink Well #1 for incident nAPP2205926232. SMA personnel are scheduled to arrive on Friday, December 9^{th} , 2022, to conduct the confirmation sampling at 8:00 am.

If there are any questions/concerns, please feel free to reach out to me.

Best Regards,

_



Lynn Acosta, Staff Scientist

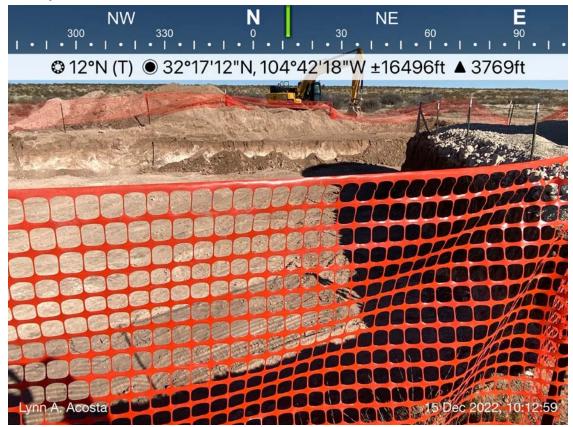
Mobile: 505-516-7469

201 W. Halagueno St Carlsbad, NM 88220

APPENDIX D PHOTOLOG

Received by OCD: 1/13/2023 8:16:48 AM

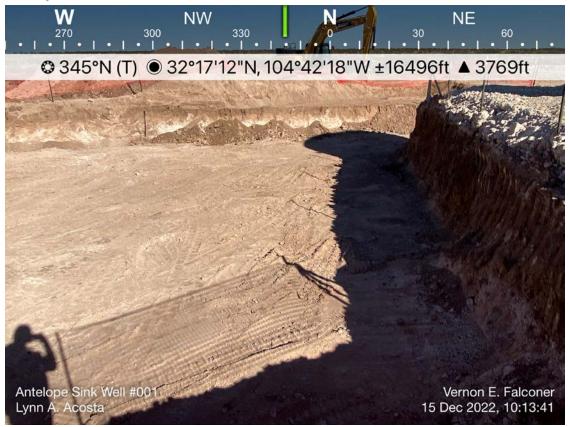
Page 29 of 131





Received by OCD: 1/13/2023 8:16:48 AM

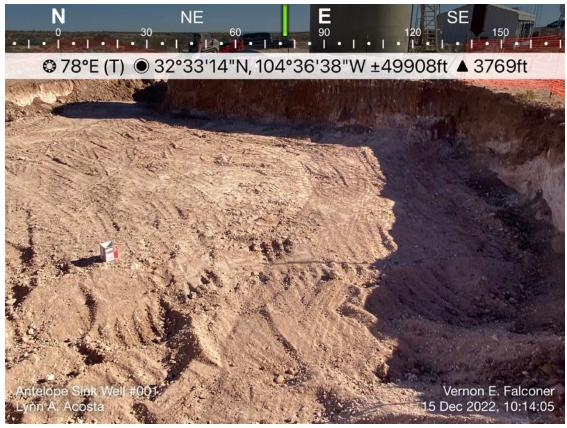
Page 30 of 131





Received by OCD: 1/13/2023 8:16:48 AM

Page 31 of 131





Received by OCD: 1/13/2023 8:16:48 AM Page 32 of 131





Received by OCD: 1/13/2023 8:16:48 AM

Page 33 of 131





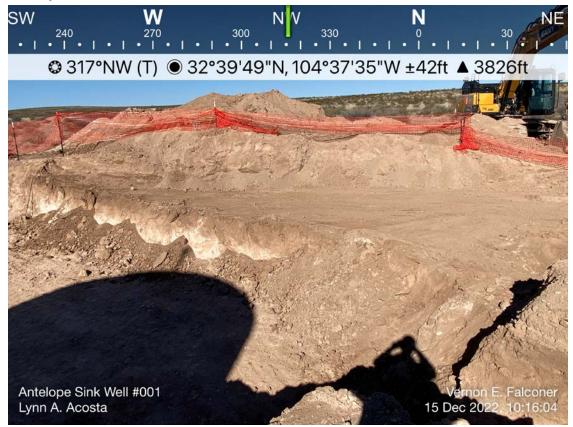
Received by OCD: 1/13/2023 8:16:48 AM Page 34 of 131





Received by OCD: 1/13/2023 8:16:48 AM

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APPENDIX E SAMPLING PROTOCOL



Sampling Protocol

The soil samples were collected in laboratory supplied containers in accordance with this sampling protocol, immediately placed on ice and sent under standard chain-of-custody protocols to Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico for analysis. A total of thirty-one (31) samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D.

Sampling Analysis Field Quality Assurance Procedures

A unique sample numbering was used to identify each sample collected and designated for on-site and off-site laboratory analysis. The purpose of this numbering scheme was to provide a tracking system for the retrieval of analytical and field data on each sample. Sample identification numbers were recorded on sample labels or tags, field notes, chain-of-custody records (COC) and all other applicable documentation used during the project. Sample labels were affixed to all sample containers during sampling activities. Information was recorded on each sample container label at the time of sample collection. The information recorded on the labels were as follows: sample identification number; sample type (discrete or composite); site name and area/location number; analysis to be performed; type of chemical preservative present in container; date and time of sample collection; and sample collector's name and initials. All samples were packed in ice in an approved rigid body container, custody sealed signed and shipped to the appropriate laboratory via insured currier service.

COC procedures implemented for the project provided documentation of the handling of each sample from the time of collection until completion of laboratory analysis. A COC form serves as a legal record of possession of the sample. A sample is considered to be under custody if one or more of the following criteria are met: the sample is in the sampler's possession; the sample is in the sampler's view after being in possession; the sample was in the sampler's possession and then was placed into a locked area to prevent tampering; and/or the sample is in a designated secure area. Custody was documented throughout the project field sampling activities by a chain-of custody form initiated each day during which samples are collected. Container custody seals placed on either individual samples or on the rigid body container were used to ensure that no sample tampering occurs between the time the samples are placed into the containers and the time the containers are opened for analysis at the laboratory. Container custody seals were signed and dated by the individual responsible for completing the COC form contained within the container.

Engineering • Environmental • Surveying

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APPENDIX F LABORATORY ANALYTICAL REPORT



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

December 29, 2022

Lynn A. Acosta Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-8801

FAX

RE: Antelope Sink 001 OrderNo.: 2212A84

Dear Lynn A. Acosta:

Hall Environmental Analysis Laboratory received 31 sample(s) on 12/17/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates **Client Sample ID: CBS-1**

Project: Antelope Sink 001 **Collection Date:** 12/15/2022

2212A84-001 Lab ID: Matrix: SOIL Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	12/22/2022 4:41:52 PM	72277
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/21/2022 4:13:12 PM	72215
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/21/2022 4:13:12 PM	72215
Surr: DNOP	108	21-129	%Rec	1	12/21/2022 4:13:12 PM	72215
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/21/2022 9:39:00 PM	72183
Surr: BFB	99.3	37.7-212	%Rec	1	12/21/2022 9:39:00 PM	72183
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 9:39:00 PM	72183
Toluene	ND	0.048	mg/Kg	1	12/21/2022 9:39:00 PM	72183
Ethylbenzene	ND	0.048	mg/Kg	1	12/21/2022 9:39:00 PM	72183
Xylenes, Total	ND	0.097	mg/Kg	1	12/21/2022 9:39:00 PM	72183
Surr: 4-Bromofluorobenzene	111	70-130	%Rec	1	12/21/2022 9:39:00 PM	72183

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 1 of 38

Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CBS-2

Project: Antelope Sink 001 **Collection Date:** 12/15/2022

Lab ID: 2212A84-002 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	12/22/2022 4:54:17 PM	72277
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/21/2022 4:23:51 PM	72215
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/21/2022 4:23:51 PM	72215
Surr: DNOP	127	21-129	%Rec	1	12/21/2022 4:23:51 PM	72215
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2022 9:59:00 PM	72183
Surr: BFB	100	37.7-212	%Rec	1	12/21/2022 9:59:00 PM	72183
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 9:59:00 PM	72183
Toluene	ND	0.049	mg/Kg	1	12/21/2022 9:59:00 PM	72183
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2022 9:59:00 PM	72183
Xylenes, Total	ND	0.098	mg/Kg	1	12/21/2022 9:59:00 PM	72183
Surr: 4-Bromofluorobenzene	112	70-130	%Rec	1	12/21/2022 9:59:00 PM	72183

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

rting Limit Page 2 of 38

Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CBS-3

Project: Antelope Sink 001 **Collection Date:** 12/15/2022

Lab ID: 2212A84-003 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	12/22/2022 5:06:41 PM 72277
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	12/21/2022 4:34:32 PM 72215
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	12/21/2022 4:34:32 PM 72215
Surr: DNOP	113	21-129	%Rec	1	12/21/2022 4:34:32 PM 72215
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2022 10:18:00 PM 72183
Surr: BFB	95.8	37.7-212	%Rec	1	12/21/2022 10:18:00 PM 72183
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 10:18:00 PM 72183
Toluene	ND	0.049	mg/Kg	1	12/21/2022 10:18:00 PM 72183
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2022 10:18:00 PM 72183
Xylenes, Total	ND	0.098	mg/Kg	1	12/21/2022 10:18:00 PM 72183
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	12/21/2022 10:18:00 PM 72183

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CBS-4

Project: Antelope Sink 001 **Collection Date:** 12/15/2022

Lab ID: 2212A84-004 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	61	mg/Kg	20	12/22/2022 5:19:05 PM 72277
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	12/21/2022 4:45:20 PM 72215
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	12/21/2022 4:45:20 PM 72215
Surr: DNOP	111	21-129	%Rec	1	12/21/2022 4:45:20 PM 72215
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/21/2022 10:38:00 PM 72183
Surr: BFB	105	37.7-212	%Rec	1	12/21/2022 10:38:00 PM 72183
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 10:38:00 PM 72183
Toluene	ND	0.048	mg/Kg	1	12/21/2022 10:38:00 PM 72183
Ethylbenzene	ND	0.048	mg/Kg	1	12/21/2022 10:38:00 PM 72183
Xylenes, Total	ND	0.097	mg/Kg	1	12/21/2022 10:38:00 PM 72183
Surr: 4-Bromofluorobenzene	111	70-130	%Rec	1	12/21/2022 10:38:00 PM 72183

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CBS-5

Project: Antelope Sink 001 **Collection Date:** 12/15/2022

Lab ID: 2212A84-005 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	12/22/2022 5:31:30 PM 72277
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/21/2022 6:58:02 PM 72215
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/21/2022 6:58:02 PM 72215
Surr: DNOP	144	21-129	S	%Rec	1	12/21/2022 6:58:02 PM 72215
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/21/2022 10:58:00 PM 72183
Surr: BFB	102	37.7-212		%Rec	1	12/21/2022 10:58:00 PM 72183
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/21/2022 10:58:00 PM 72183
Toluene	ND	0.049		mg/Kg	1	12/21/2022 10:58:00 PM 72183
Ethylbenzene	ND	0.049		mg/Kg	1	12/21/2022 10:58:00 PM 72183
Xylenes, Total	ND	0.098		mg/Kg	1	12/21/2022 10:58:00 PM 72183
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	12/21/2022 10:58:00 PM 72183

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CBS-6

Project: Antelope Sink 001 **Collection Date:** 12/15/2022

Lab ID: 2212A84-006 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	12/23/2022 4:54:17 AM 72290
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	12/21/2022 11:54:05 PM 72215
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	12/21/2022 11:54:05 PM 72215
Surr: DNOP	121	21-129	%Rec	1	12/21/2022 11:54:05 PM 72215
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2022 11:17:00 PM 72183
Surr: BFB	98.0	37.7-212	%Rec	1	12/21/2022 11:17:00 PM 72183
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 11:17:00 PM 72183
Toluene	ND	0.049	mg/Kg	1	12/21/2022 11:17:00 PM 72183
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2022 11:17:00 PM 72183
Xylenes, Total	ND	0.098	mg/Kg	1	12/21/2022 11:17:00 PM 72183
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	12/21/2022 11:17:00 PM 72183

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CBS-15

Project: Antelope Sink 001

Collection Date: 12/15/2022

Lab ID: 2212A84-015 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 9:11:27 AM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/22/2022 2:01:13 AM 72228
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	12/22/2022 2:01:13 AM 72228
Surr: DNOP	94.8	21-129	%Rec	1	12/22/2022 2:01:13 AM 72228
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/21/2022 11:58:00 AM 72191
Surr: BFB	105	37.7-212	%Rec	1	12/21/2022 11:58:00 AM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	12/21/2022 11:58:00 AM 72191
Toluene	ND	0.050	mg/Kg	1	12/21/2022 11:58:00 AM 72191
Ethylbenzene	ND	0.050	mg/Kg	1	12/21/2022 11:58:00 AM 72191
Xylenes, Total	ND	0.099	mg/Kg	1	12/21/2022 11:58:00 AM 72191
Surr: 4-Bromofluorobenzene	114	70-130	%Rec	1	12/21/2022 11:58:00 AM 72191

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CSW-1

Project: Antelope Sink 001

Collection Date: 12/15/2022

Lab ID: 2212A84-016 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	:: JTT
Chloride	ND	60		mg/Kg	20	12/23/2022 9:23:52 AM	72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/22/2022 2:32:28 AM	72228
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/22/2022 2:32:28 AM	72228
Surr: DNOP	148	21-129	S	%Rec	1	12/22/2022 2:32:28 AM	72228
EPA METHOD 8015D: GASOLINE RANGE						Analyst	:: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/21/2022 1:07:00 PM	72191
Surr: BFB	106	37.7-212		%Rec	1	12/21/2022 1:07:00 PM	72191
EPA METHOD 8021B: VOLATILES						Analyst	: CCM
Benzene	ND	0.024		mg/Kg	1	12/21/2022 1:07:00 PM	72191
Toluene	ND	0.048		mg/Kg	1	12/21/2022 1:07:00 PM	72191
Ethylbenzene	ND	0.048		mg/Kg	1	12/21/2022 1:07:00 PM	72191
Xylenes, Total	ND	0.097		mg/Kg	1	12/21/2022 1:07:00 PM	72191
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	12/21/2022 1:07:00 PM	72191

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CSW-2

Project: Antelope Sink 001

Collection Date: 12/15/2022

Lab ID: 2212A84-017 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 9:36:17 AM	72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/22/2022 2:42:51 AM	72228
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/22/2022 2:42:51 AM	72228
Surr: DNOP	127	21-129	%Rec	1	12/22/2022 2:42:51 AM	72228
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/21/2022 2:07:00 PM	72191
Surr: BFB	105	37.7-212	%Rec	1	12/21/2022 2:07:00 PM	72191
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 2:07:00 PM	72191
Toluene	ND	0.048	mg/Kg	1	12/21/2022 2:07:00 PM	72191
Ethylbenzene	ND	0.048	mg/Kg	1	12/21/2022 2:07:00 PM	72191
Xylenes, Total	ND	0.097	mg/Kg	1	12/21/2022 2:07:00 PM	72191
Surr: 4-Bromofluorobenzene	113	70-130	%Rec	1	12/21/2022 2:07:00 PM	72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
 P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates **Client Sample ID: CSW-3 Project:** Antelope Sink 001 **Collection Date:** 12/15/2022

2212A84-018 Matrix: SOIL Lab ID: Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 9:48:41 AM	72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/22/2022 2:53:14 AM	72228
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/22/2022 2:53:14 AM	72228
Surr: DNOP	105	21-129	%Rec	1	12/22/2022 2:53:14 AM	72228
EPA METHOD 8015D: GASOLINE RANGE					Analyst	:: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2022 2:26:00 PM	72191
Surr: BFB	93.6	37.7-212	%Rec	1	12/21/2022 2:26:00 PM	72191
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.025	mg/Kg	1	12/21/2022 2:26:00 PM	72191
Toluene	ND	0.049	mg/Kg	1	12/21/2022 2:26:00 PM	72191
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2022 2:26:00 PM	72191
Xylenes, Total	ND	0.098	mg/Kg	1	12/21/2022 2:26:00 PM	72191
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	12/21/2022 2:26:00 PM	72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CSW-4

Project: Antelope Sink 001

Collection Date: 12/15/2022

Lab ID: 2212A84-019 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 10:01:06 AM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/22/2022 3:03:39 AM 72228
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/22/2022 3:03:39 AM 72228
Surr: DNOP	116	21-129	%Rec	1	12/22/2022 3:03:39 AM 72228
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/21/2022 2:46:00 PM 72191
Surr: BFB	93.0	37.7-212	%Rec	1	12/21/2022 2:46:00 PM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	12/21/2022 2:46:00 PM 72191
Toluene	ND	0.050	mg/Kg	1	12/21/2022 2:46:00 PM 72191
Ethylbenzene	ND	0.050	mg/Kg	1	12/21/2022 2:46:00 PM 72191
Xylenes, Total	ND	0.10	mg/Kg	1	12/21/2022 2:46:00 PM 72191
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	12/21/2022 2:46:00 PM 72191

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CSW-5

Project: Antelope Sink 001

Collection Date: 12/15/2022

Lab ID: 2212A84-020 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 10:13:30 AM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/22/2022 3:14:07 AM 72228
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/22/2022 3:14:07 AM 72228
Surr: DNOP	113	21-129	%Rec	1	12/22/2022 3:14:07 AM 72228
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/21/2022 3:05:00 PM 72191
Surr: BFB	104	37.7-212	%Rec	1	12/21/2022 3:05:00 PM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 3:05:00 PM 72191
Toluene	ND	0.048	mg/Kg	1	12/21/2022 3:05:00 PM 72191
Ethylbenzene	ND	0.048	mg/Kg	1	12/21/2022 3:05:00 PM 72191
Xylenes, Total	ND	0.096	mg/Kg	1	12/21/2022 3:05:00 PM 72191
Surr: 4-Bromofluorobenzene	110	70-130	%Rec	1	12/21/2022 3:05:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates **Client Sample ID: CSW-6 Project:** Antelope Sink 001 **Collection Date:** 12/15/2022

2212A84-021 Matrix: SOIL Lab ID: Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 10:25:55 AM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/22/2022 3:24:35 AM 72228
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	12/22/2022 3:24:35 AM 72228
Surr: DNOP	109	21-129	%Rec	1	12/22/2022 3:24:35 AM 72228
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2022 3:25:00 PM 72191
Surr: BFB	99.1	37.7-212	%Rec	1	12/21/2022 3:25:00 PM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 3:25:00 PM 72191
Toluene	ND	0.049	mg/Kg	1	12/21/2022 3:25:00 PM 72191
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2022 3:25:00 PM 72191
Xylenes, Total	ND	0.097	mg/Kg	1	12/21/2022 3:25:00 PM 72191
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	12/21/2022 3:25:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates **Client Sample ID: CSW-7 Project:** Antelope Sink 001 **Collection Date:** 12/15/2022

2212A84-022 Matrix: SOIL Lab ID: Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 11:03:09 AM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	12/22/2022 3:35:04 AM 72228
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	12/22/2022 3:35:04 AM 72228
Surr: DNOP	121	21-129	%Rec	1	12/22/2022 3:35:04 AM 72228
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2022 3:45:00 PM 72191
Surr: BFB	102	37.7-212	%Rec	1	12/21/2022 3:45:00 PM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	12/21/2022 3:45:00 PM 72191
Toluene	ND	0.049	mg/Kg	1	12/21/2022 3:45:00 PM 72191
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2022 3:45:00 PM 72191
Xylenes, Total	ND	0.099	mg/Kg	1	12/21/2022 3:45:00 PM 72191
Surr: 4-Bromofluorobenzene	113	70-130	%Rec	1	12/21/2022 3:45:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CSW-8

Project: Antelope Sink 001

Collection Date: 12/15/2022

Lab ID: 2212A84-023 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	59		mg/Kg	20	12/23/2022 11:15:34 AM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/22/2022 10:42:03 PM 72256
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/22/2022 10:42:03 PM 72256
Surr: DNOP	129	21-129	S	%Rec	1	12/22/2022 10:42:03 PM 72256
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/21/2022 4:05:00 PM 72191
Surr: BFB	99.4	37.7-212		%Rec	1	12/21/2022 4:05:00 PM 72191
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/21/2022 4:05:00 PM 72191
Toluene	ND	0.049		mg/Kg	1	12/21/2022 4:05:00 PM 72191
Ethylbenzene	ND	0.049		mg/Kg	1	12/21/2022 4:05:00 PM 72191
Xylenes, Total	ND	0.097		mg/Kg	1	12/21/2022 4:05:00 PM 72191
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	12/21/2022 4:05:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CSW-9 **Project:** Antelope Sink 001 **Collection Date:** 12/15/2022

2212A84-024 Lab ID: Matrix: SOIL Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	61	mg/Kg	20	12/23/2022 11:27:59 AM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/22/2022 10:52:39 PM 72256
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	12/22/2022 10:52:39 PM 72256
Surr: DNOP	118	21-129	%Rec	1	12/22/2022 10:52:39 PM 72256
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2022 4:24:00 PM 72191
Surr: BFB	103	37.7-212	%Rec	1	12/21/2022 4:24:00 PM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	12/21/2022 4:24:00 PM 72191
Toluene	ND	0.049	mg/Kg	1	12/21/2022 4:24:00 PM 72191
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2022 4:24:00 PM 72191
Xylenes, Total	ND	0.098	mg/Kg	1	12/21/2022 4:24:00 PM 72191
Surr: 4-Bromofluorobenzene	113	70-130	%Rec	1	12/21/2022 4:24:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CSW-10 **Project:** Antelope Sink 001 **Collection Date:** 12/15/2022

2212A84-025 Matrix: SOIL Lab ID: Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	esult RL Qual Units DF Date Analyzed		Date Analyzed Batch		
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	12/23/2022 11:40:24 AM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/22/2022 11:06:00 PM 72256
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/22/2022 11:06:00 PM 72256
Surr: DNOP	135	21-129	S	%Rec	1	12/22/2022 11:06:00 PM 72256
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/21/2022 5:04:00 PM 72191
Surr: BFB	99.3	37.7-212		%Rec	1	12/21/2022 5:04:00 PM 72191
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/21/2022 5:04:00 PM 72191
Toluene	ND	0.049		mg/Kg	1	12/21/2022 5:04:00 PM 72191
Ethylbenzene	ND	0.049		mg/Kg	1	12/21/2022 5:04:00 PM 72191
Xylenes, Total	ND	0.098		mg/Kg	1	12/21/2022 5:04:00 PM 72191
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	12/21/2022 5:04:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

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Analytical Report

Lab Order 2212A84 Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CSW-11 **Project:** Antelope Sink 001 **Collection Date:** 12/15/2022

2212A84-026 Matrix: SOIL Lab ID: Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 11:52:48 AM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/22/2022 11:16:55 PM 72256
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/22/2022 11:16:55 PM 72256
Surr: DNOP	112	21-129	%Rec	1	12/22/2022 11:16:55 PM 72256
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/21/2022 5:23:00 PM 72191
Surr: BFB	96.5	37.7-212	%Rec	1	12/21/2022 5:23:00 PM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 5:23:00 PM 72191
Toluene	ND	0.048	mg/Kg	1	12/21/2022 5:23:00 PM 72191
Ethylbenzene	ND	0.048	mg/Kg	1	12/21/2022 5:23:00 PM 72191
Xylenes, Total	ND	0.096	mg/Kg	1	12/21/2022 5:23:00 PM 72191
Surr: 4-Bromofluorobenzene	110	70-130	%Rec	1	12/21/2022 5:23:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CSW-12 **Project:** Antelope Sink 001 **Collection Date:** 12/15/2022

2212A84-027 Matrix: SOIL Lab ID: Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 12:05:13 PM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/22/2022 11:27:41 PM 72256
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/22/2022 11:27:41 PM 72256
Surr: DNOP	109	21-129	%Rec	1	12/22/2022 11:27:41 PM 72256
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2022 5:43:00 PM 72191
Surr: BFB	99.7	37.7-212	%Rec	1	12/21/2022 5:43:00 PM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 5:43:00 PM 72191
Toluene	ND	0.049	mg/Kg	1	12/21/2022 5:43:00 PM 72191
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2022 5:43:00 PM 72191
Xylenes, Total	ND	0.097	mg/Kg	1	12/21/2022 5:43:00 PM 72191
Surr: 4-Bromofluorobenzene	111	70-130	%Rec	1	12/21/2022 5:43:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CSW-13

Project: Antelope Sink 001

Collection Date: 12/15/2022

Lab ID: 2212A84-028 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 12:17:37 PM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/22/2022 11:38:24 PM 72256
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/22/2022 11:38:24 PM 72256
Surr: DNOP	106	21-129	%Rec	1	12/22/2022 11:38:24 PM 72256
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2022 6:03:00 PM 72191
Surr: BFB	96.8	37.7-212	%Rec	1	12/21/2022 6:03:00 PM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 6:03:00 PM 72191
Toluene	ND	0.049	mg/Kg	1	12/21/2022 6:03:00 PM 72191
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2022 6:03:00 PM 72191
Xylenes, Total	ND	0.098	mg/Kg	1	12/21/2022 6:03:00 PM 72191
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	12/21/2022 6:03:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CSW-14 **Project:** Antelope Sink 001 **Collection Date:** 12/15/2022

2212A84-029 Lab ID: Matrix: SOIL Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 12:30:01 PM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	12/22/2022 11:49:07 PM 72256
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	12/22/2022 11:49:07 PM 72256
Surr: DNOP	109	21-129	%Rec	1	12/22/2022 11:49:07 PM 72256
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/21/2022 6:22:00 PM 72191
Surr: BFB	98.4	37.7-212	%Rec	1	12/21/2022 6:22:00 PM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 6:22:00 PM 72191
Toluene	ND	0.048	mg/Kg	1	12/21/2022 6:22:00 PM 72191
Ethylbenzene	ND	0.048	mg/Kg	1	12/21/2022 6:22:00 PM 72191
Xylenes, Total	ND	0.096	mg/Kg	1	12/21/2022 6:22:00 PM 72191
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	12/21/2022 6:22:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates **Client Sample ID:** CSW-15 **Project:** Antelope Sink 001 **Collection Date:** 12/15/2022

2212A84-030 Matrix: SOIL Lab ID: Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 12:42:26 PM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	12/22/2022 11:59:49 PM 72256
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	12/22/2022 11:59:49 PM 72256
Surr: DNOP	117	21-129	%Rec	1	12/22/2022 11:59:49 PM 72256
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2022 6:42:00 PM 72191
Surr: BFB	103	37.7-212	%Rec	1	12/21/2022 6:42:00 PM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 6:42:00 PM 72191
Toluene	ND	0.049	mg/Kg	1	12/21/2022 6:42:00 PM 72191
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2022 6:42:00 PM 72191
Xylenes, Total	ND	0.097	mg/Kg	1	12/21/2022 6:42:00 PM 72191
Surr: 4-Bromofluorobenzene	113	70-130	%Rec	1	12/21/2022 6:42:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CSW-16

Project: Antelope Sink 001

Collection Date: 12/15/2022

Lab ID: 2212A84-031 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 12:54:51 PM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/23/2022 12:10:29 AM 72256
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/23/2022 12:10:29 AM 72256
Surr: DNOP	97.7	21-129	%Rec	1	12/23/2022 12:10:29 AM 72256
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/21/2022 7:02:00 PM 72191
Surr: BFB	103	37.7-212	%Rec	1	12/21/2022 7:02:00 PM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 7:02:00 PM 72191
Toluene	ND	0.048	mg/Kg	1	12/21/2022 7:02:00 PM 72191
Ethylbenzene	ND	0.048	mg/Kg	1	12/21/2022 7:02:00 PM 72191
Xylenes, Total	ND	0.097	mg/Kg	1	12/21/2022 7:02:00 PM 72191
Surr: 4-Bromofluorobenzene	113	70-130	%Rec	1	12/21/2022 7:02:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2212A84

29-Dec-22

Client: Souder, Miller & Associates

Project: Antelope Sink 001

Sample ID: MB-72277 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 72277 RunNo: 93518

Prep Date: 12/22/2022 Analysis Date: 12/22/2022 SeqNo: 3373636 Units: mg/Kg

SPK value SPK Ref Val **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit %RPD Qual

Chloride ND 1.5

Sample ID: LCS-72277 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 72277 RunNo: 93518

Prep Date: 12/22/2022 Analysis Date: 12/22/2022 SeqNo: 3373637 Units: mg/Kg

SPK value SPK Ref Val **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit %RPD Qual

Chloride 14 1.5 15.00 94.3 110

Sample ID: MB-72290 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 72290 RunNo: 93534

Prep Date: 12/22/2022 Analysis Date: 12/23/2022 SeqNo: 3374330 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte

Chloride ND 1.5

Sample ID: LCS-72290 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 72290 RunNo: 93534

Analysis Date: 12/23/2022 Prep Date: 12/22/2022 SeqNo: 3374331 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride 14 1.5 15.00 95.6 90

Sample ID: MB-72293 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 72293 RunNo: 93543

Prep Date: 12/22/2022 Analysis Date: 12/23/2022 SeqNo: 3374909 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 1.5

SampType: LCS Sample ID: LCS-72293 TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 72293 RunNo: 93543

Prep Date: 12/22/2022 Analysis Date: 12/23/2022 SeqNo: 3374910 Units: mg/Kg

%RPD **RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit Qual

14 1.5 92.5 Chloride 15.00 110

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank

Above Quantitation Range/Estimated Value

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 32 of 38

Hall Environmental Analysis Laboratory, Inc.

2212A84 29-Dec-22

WO#:

Client: Souder, Miller & Associates

Project: Antelope Sink 001

Sample ID: LCS-72215	SampTy	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch	Batch ID: 72215 RunNo: 93461								
Prep Date: 12/20/2022	Analysis Da	ate: 12	2/21/2022	9	SeqNo: 3	370983	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	15	50.00	0	95.2	64.4	127			
Surr: DNOP	5.8		5.000		117	21	129			
Sample ID: MB-72215	SampTy	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	ID: 72	215	F	RunNo: 9	3461				
Prep Date: 12/20/2022	Analysis Da	ate: 12	2/21/2022	\$	SeqNo: 3	370985	Units: mg/K	(g		

Ciletit ID. PB3	Dato	11D. 121	213	Г	Kullino. 9.	3401				
Prep Date: 12/20/2022	Analysis D	ate: 12	2/21/2022	5	SeqNo: 3	370985	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		120	21	129			

Sample ID: 2212A84-015AMS	SampT	ype: MS	6	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: CBS-15	Batch	ID: 72 2	228	R	RunNo: 9	3461				
Prep Date: 12/20/2022	Analysis D	ate: 12	2/22/2022	S	SeqNo: 3	372809	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	15	48.88	0	97.0	36.1	154			
Surr: DNOP	5.4		4.888		111	21	129			

Sample ID: 2212A84-015AMSD	SampT	ype: MS	SD	Test	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: CBS-15	Batch	ID: 72	228	R	tunNo: 9	3461				
Prep Date: 12/20/2022	Analysis D	ate: 12	2/22/2022	S	SeqNo: 3	372810	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	14	46.38	0	102	36.1	154	0.0628	33.9	
Surr: DNOP	5.3		4.638		114	21	129	0	0	

Sample ID: LCS-72228	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch	1D: 72	228	F	RunNo: 9	3461				
Prep Date: 12/20/2022	Analysis D	ate: 12	2/22/2022	8	SeqNo: 3	372867	Units: mg/K	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	15	50.00	0	92.5	64.4	127			
Surr: DNOP	6.2		5.000		125	21	129			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2212A84 29-Dec-22

Client: Souder, Miller & Associates

Project: Antelope Sink 001

Sample ID: MB-72228 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 72228 RunNo: 93461 Prep Date: 12/20/2022 Analysis Date: 12/22/2022 SeqNo: 3372868 Units: mg/Kg

SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result PQL HighLimit Qual Diesel Range Organics (DRO) ND 15

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 11 10.00 110 21 129

Sample ID: MB-72256 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 72256 RunNo: 93500

Prep Date: 12/21/2022 Analysis Date: 12/22/2022 SeqNo: 3372932 Units: mg/Kg

Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 15 ND Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 12 10.00 118 21 129

Sample ID: LCS-72256 TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: LCS Client ID: LCSS Batch ID: 72256 RunNo: 93500 Prep Date: 12/21/2022 Analysis Date: 12/22/2022 SeqNo: 3374250 Units: mg/Kg

Qual Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Diesel Range Organics (DRO) 50 15 50.00 0 99.6 64.4 127 Surr: DNOP 6.8 5.000 136 21 129 S

Sample ID: LCS-72271 TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: LCS

Client ID: LCSS Batch ID: 72271 RunNo: 93500

Prep Date: 12/22/2022 Analysis Date: 12/22/2022 SeqNo: 3374252 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual LowLimit Surr: DNOP 5.000 5.9 117 21 129

TestCode: EPA Method 8015M/D: Diesel Range Organics Sample ID: MB-72271 SampType: MBLK

Batch ID: 72271 RunNo: 93500 Client ID: PBS

Prep Date: 12/22/2022 Analysis Date: 12/22/2022 SeqNo: 3374254 Units: %Rec

Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte LowLimit Qual

Surr: DNOP 11 10.00 21 129

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2212A84**

29-Dec-22

Client: Souder, Miller & Associates

Project: Antelope Sink 001

Sample ID: mb-72183 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 72183 RunNo: 93433

Prep Date: 12/19/2022 Analysis Date: 12/20/2022 SeqNo: 3369855 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 880 1000 87.6 37.7 212

Sample ID: Ics-72183 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 72183 RunNo: 93433

Prep Date: 12/19/2022 Analysis Date: 12/20/2022 SeqNo: 3369856 Units: mg/Kg

HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 89.8 72.3 137 Surr: BFB 1800 1000 178 37.7 212

Sample ID: LCS-72191 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 72191 RunNo: 93486

Prep Date: 12/19/2022 Analysis Date: 12/21/2022 SeqNo: 3371848 Units: mg/Kg

SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result POI %REC LowLimit HighLimit Qual Gasoline Range Organics (GRO) 25 5.0 25.00 0 99.8 72.3 137 Surr: BFB 37.7 S 2200 1000 223 212

Sample ID: mb-72191 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 72191 RunNo: 93486

Prep Date: 12/19/2022 Analysis Date: 12/21/2022 SeqNo: 3371849 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO) ND 5.0

Gasoline Range Organics (GRO) ND 5.0
Surr: BFB 1000

Sample ID: 2212A84-015ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

1000

Client ID: CBS-15 Batch ID: 72191 RunNo: 93486

Prep Date: 12/19/2022 Analysis Date: 12/21/2022 SeqNo: 3371851 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 5.0 0 70 24.93 98.9 130 Surr: BFB 2300 997.0 234 37.7 212 S

Sample ID: 2212A84-015amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: CBS-15 Batch ID: 72191 RunNo: 93486

Prep Date: 12/19/2022 Analysis Date: 12/21/2022 SeqNo: 3371852 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

104

37.7

212

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 35 of 38

Hall Environmental Analysis Laboratory, Inc.

WO#: **2212A84**

29-Dec-22

Client: Souder, Miller & Associates

Project: Antelope Sink 001

Sample ID: 2212A84-015amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: CBS-15 Batch ID: 72191 RunNo: 93486

Prep Date: 12/19/2022 Analysis Date: 12/21/2022 SeqNo: 3371852 Units: mg/Kg

·	•				•		•	•			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	26	5.0	24.93	0	105	70	130	5.93	20		
Surr: BFB	2300		997.0		235	37.7	212	0	0	S	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 36 of 38

Hall Environmental Analysis Laboratory, Inc.

WO#: 2212A84 29-Dec-22

Client: Souder, Miller & Associates

Project: Antelope Sink 001

Sample ID: mb-72183 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 72183 RunNo: 93433

Prep Date: 12/19/2022 Analysis Date: 12/20/2022 SeqNo: 3369901 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result Qual Benzene ND 0.025

Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 0.89 1.000 89.4 70 130

Sample ID: LCS-72183 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 72183 RunNo: 93433

Prep Date: 12/19/2022	Analysis I	Date: 12	2/20/2022	\$	SeqNo: 3	369902	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.6	80	120			
Toluene	0.93	0.050	1.000	0	92.6	80	120			
Ethylbenzene	0.92	0.050	1.000	0	91.8	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.1	80	120			
Surr: 4-Bromofluorobenzene	0.91		1.000		90.9	70	130			

Sample ID: LCS-72191 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 72191 RunNo: 93486

Prep Date: 12/19/2022	Analysis [Date: 12	2/21/2022	S	SeqNo: 3	371928	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	109	80	120			
Toluene	1.1	0.050	1.000	0	110	80	120			
Ethylbenzene	1.1	0.050	1.000	0	109	80	120			
Xylenes, Total	3.3	0.10	3.000	0	110	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		114	70	130			

Sample ID: mb-72191 TestCode: EPA Method 8021B: Volatiles SampType: MBLK

Client ID: PBS Batch ID: 72191 RunNo: 93486

Prep Date: 12/19/2022	Analysis D	Date: 12	2/21/2022	S	SeqNo: 3	371929	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		113	70	130			

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank

Above Quantitation Range/Estimated Value

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 37 of 38

Hall Environmental Analysis Laboratory, Inc.

WO#: **2212A84**

29-Dec-22

Client: Souder, Miller & Associates

Project: Antelope Sink 001

Sample ID: 2212A84-016ams	SampT	уре: МЅ	3	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: CSW-1	Batch	n ID: 72 1	191	F	RunNo: 9	3486				
Prep Date: 12/19/2022	Analysis D	Date: 12	2/21/2022	S	SeqNo: 3	371932	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.024	0.9625	0	103	68.8	120			
Toluene	1.0	0.048	0.9625	0	104	73.6	124			
Ethylbenzene	1.0	0.048	0.9625	0	105	72.7	129			
Xylenes, Total	3.0	0.096	2.887	0	105	75.7	126			
Surr: 4-Bromofluorobenzene	1.1		0.9625		114	70	130			

Sample ID: 2212A84-016ams	sd Samp1	Гуре: М \$	SD	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: CSW-1	Batcl	h ID: 72	191	F	RunNo: 9	3486				
Prep Date: 12/19/2022	Analysis D	Date: 12	2/21/2022	\$	SeqNo: 3	371933	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9606	0	106	68.8	120	3.12	20	
Toluene	1.0	0.048	0.9606	0	108	73.6	124	3.12	20	
Ethylbenzene	1.0	0.048	0.9606	0	109	72.7	129	3.61	20	
Xylenes, Total	3.1	0.096	2.882	0	109	75.7	126	3.75	20	
Surr: 4-Bromofluorobenzene	1.1		0.9606		113	70	130	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 38 of 38



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 4/14/2023 2:23:14 PM

	mebsite. ii ii	w.hallenvironmenta			
Client Name: Souder, Miller & Associates	Work Order Nun	nber: 2212A84		RcptNo:	1
Received By: Desiree Dominguez	12/17/2022 10:00:	00 AM	TO		
Completed By: Sean Livingston	12/19/2022 8:16:3	8 AM	Suli	201	
Reviewed By: JN 12/19/22			J	,	
Chain of Custody					
l. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
Log In					
3. Was an attempt made to cool the samples?		Yes 🗹	No 🗌	NA \square	
Were all samples received at a temperature o	f >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗌	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
Sufficient sample volume for indicated test(s)?)	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) properly	preserved?	Yes 🗹	No 🗌		
3. Was preservative added to bottles?		Yes 🗌	No 🔽	NA 🗆	
9. Received at least 1 vial with headspace <1/4"	for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
0. Were any sample containers received broken	?	Yes	No 🗹 🛭		
				# of preserved bottles checked	
Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No ∐	for pH: (<2 pt/>	12 unless noted)
2. Are matrices correctly identified on Chain of C	ustody?	Yes 🗹	No 🗆	Adjusted?	TE amoss notsu,
3. Is it clear what analyses were requested?		Yes 🗹	No 🗌		
4. Were all holding times able to be met?		Yes 🗹	No 🗆	Checked by:	P/12.10
(If no, notify customer for authorization.)			L	_	
pecial Handling (if applicable)					
5. Was client notified of all discrepancies with th	is order?	Yes 🗌	No 🗆	NA 🗹	
Person Notified:	Date	e:			
By Whom:	Via:	eMail	Phone 🗌 Fax	In Person	
Regarding:					
Client Instructions:					
6. Additional remarks:					
7. Cooler Information					
9 9	al Intact Seal No	Seal Date	Signed By		
1 0.1 Good					

Chain	Chain-of-Custody Record	l urn-Around	ше:				ì		2	7		2	ENVIDONMENTAL	IV.	
Client: 5 N	14- Carlstond	□ Standard	⊠ Rush	5 day TAT		V	A	AL	YS.	S	AB	OR	ANALYSIS LABORATOR	N. S.	
		Project Name:	100	1,			≶	www.hallenvironmental.com	enviro	nmen	tal.col	۶			
Mailing Address:		Anzelo	De Sink	1k # 001	4	4901 Hawkins NE	wkins	岁	Albuc	luerqu	e, NN	Albuquerque, NM 87109	O		
		Project #:			1	Tel. 505-345-3975	5-345-	3975	Fa	505	Fax 505-345-4107	1107			
Phone #:			2					4	Analysis Request	s Rec	uest				
email or Fax#:		Project Manager:	er:						†OS		(ţue			_	
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□ NELAC	□ Other		Z Yes	oN \square					٤,	~ O					
☐ EDD (Type)		# of Coolers:								_					
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		Container	reservative	HEAL No.				AA:		s) 02 v) 09					
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If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited Released to Imaging: 4/14/2023 2:23:14 PM

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Mailing Address:		ANDLORG SI	Sink # 001	4901 F	4901 Hawkins NE	1	dnerdne	Albuquerque, NM 87109	
		Project #:		Tel. 5(Tel. 505-345-3975		x 505-3	Fax 505-345-4107	
Phone #:			- C 100			Analys	Analysis Request	iest	
email or Fax#:	AMAZON TO THE TOTAL THE TOTAL TO THE TOTAL TOTAL TO THE T	Project Manager:				PO?		(Jua	
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If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated Released to Imaging: 4/14/2023 2:23:14 PM

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Chain-of-Custody Record	יייייייייייייייייייייייייייייייייייייי	HALL ENVIRONMENTAL
Client: CMA Carly Cal	□ Standard Rush 50 am #	
	Project Name:	www.hallenvironmental.com
Mailing Address:	Antolope fink # 001	4901 Hawkins NE - Albuquerque, NM 87109
	Project #:	Tel. 505-345-3975 Fax 505-345-4107
Phone #:		Analysis Request
email or Fax#:	Project Manager:	†OS
age:	ACRES	oO⁴' a
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Accreditation: Az Compliance Discretely of the compliance of th	On Ice: A Yes No	08/s 08/s .405 8 10 8 10
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Segment of the second	to other accredited laboratories.	This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: 4/14/2023 2:23:14 PM

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Incident ID	NAPP2205926232
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

	1
A scaled site and sampling diagram as desc	ribed in 19.15.29.11 NMAC
Photographs of the remediated site prior to must be notified 2 days prior to liner inspection	backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Not	e: appropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to repo may endanger public health or the environment. should their operations have failed to adequately human health or the environment. In addition, O compliance with any other federal, state, or local restore, reclaim, and re-vegetate the impacted sur	is true and complete to the best of my knowledge and understand that pursuant to OCD rules rt and/or file certain release notifications and perform corrective actions for releases which The acceptance of a C-141 report by the OCD does not relieve the operator of liability investigate and remediate contamination that pose a threat to groundwater, surface water, oCD acceptance of a C-141 report does not relieve the operator of responsibility for laws and/or regulations. The responsible party acknowledges they must substantially rface area to the conditions that existed prior to the release or their final land use in notification to the OCD when reclamation and re-vegetation are complete.
Printed Name: Karen Charles	Title: Sr. Production & Regulatory Analyst
Signature: <u>Karen Charles</u>	Date: 01/05/2023
email: kcharles@faulenergy.com	Telephone: 903-581-4382
OCD Only	
Received by: <u>Jocelyn Harimon</u>	Date: 01/013/2023
	e responsible party of liability should their operations have failed to adequately investigate and bundwater, surface water, human health, or the environment nor does not relieve the responsible, or local laws and/or regulations.
Closure Approved by: Robert Hame	let Date:4/14/2023
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced

Page 75 of 131 NAPP2205926232

Incident ID District RP Facility ID Application ID

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	285 (ft bgs)
Did this release impact groundwater or surface water?	Yes No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	
Are the lateral extents of the release overlying an unstable area such as karst geology?	
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☐ No ☐ Yes ☐ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver	

contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
Field data
Data table of soil contaminant concentration data
Depth to water determination
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
Boring or excavation logs
Photographs including date and GIS information
Topographic/Aerial maps
☐ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 1/13/2023 8:16:48 AM
State of New Mexico
Page 4
Oil Conservation Division

Application ID

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Karen Charles Title: Sr. Production & Regulatory Analyst Printed Name: Signature: Karen Charles Date: 01/05/2023 Telephone: 903-581-4382 email: kcharles@faulenergy.com **OCD Only** Date: 01/13/2023 Jocelyn Harimon Received by:

Received by OCD: 1/13/2023 8:16:48 AM Form C-141 State of New Mexico Page 5 Oil Conservation Division Incident ID NAPP2205926232
District RP
Facility ID
Application ID

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e included in the plan.
☐ Detailed description of proposed remediation technique ☐ Scaled sitemap with GPS coordinates showing delineation point ☐ Estimated volume of material to be remediated ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.1 ☐ Proposed schedule for remediation (note if remediation plan times)	2(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	roduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
☐ Approved ☐ Approved with Attached Conditions of	Approval
Signature:	Date:

Received by OCD: 1/13/2023 8:16:48 AM
State of New Mexico
Page 6
Oil Conservation Division

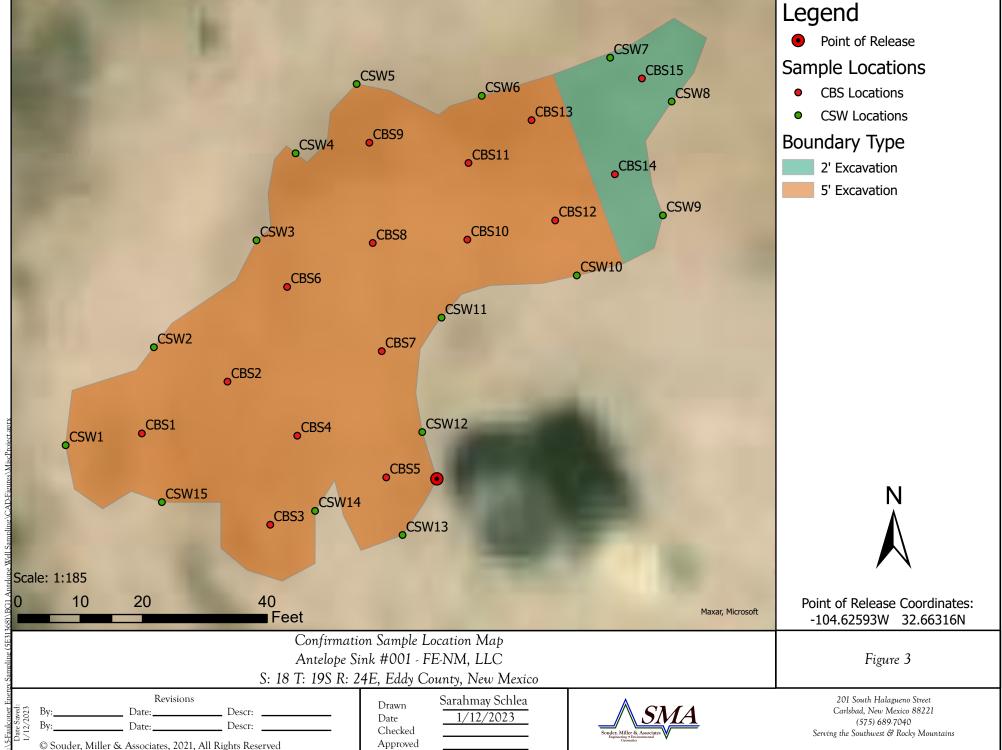
Incident ID NAPP2205926232
District RP
Facility ID
Application ID

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following	items must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regularestore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification with 19.15.2	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete. Title: Sr. Production & Regulatory Analyst
OCD Only	
Received by: Jocelyn Harimon	Date: 01/013/2023
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by:	Date:
Printed Name:	Title:

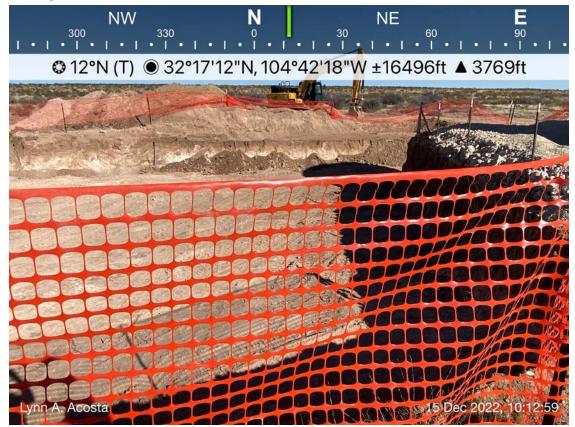
FIGURES



APPENDIX D PHOTOLOG

Received by OCD: 1/13/2023 8:16:48 AM

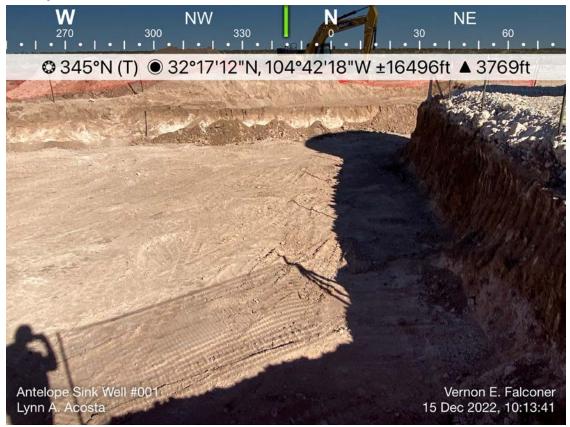
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Received by OCD: 1/13/2023 8:16:48 AM

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Received by OCD: 1/13/2023 8:16:48 AM

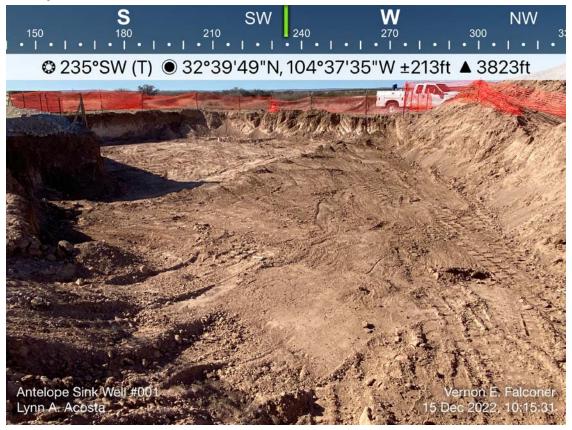
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Received by OCD: 1/13/2023 8:16:48 AM

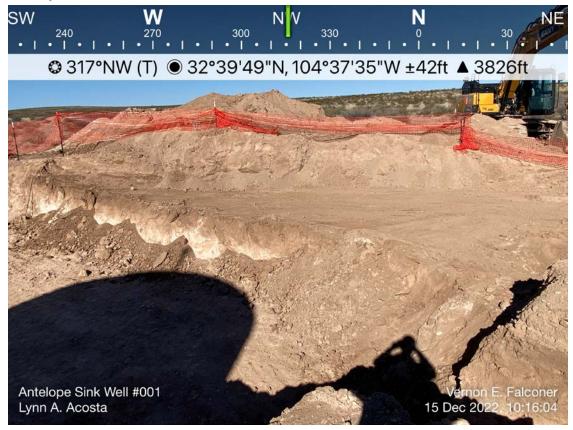
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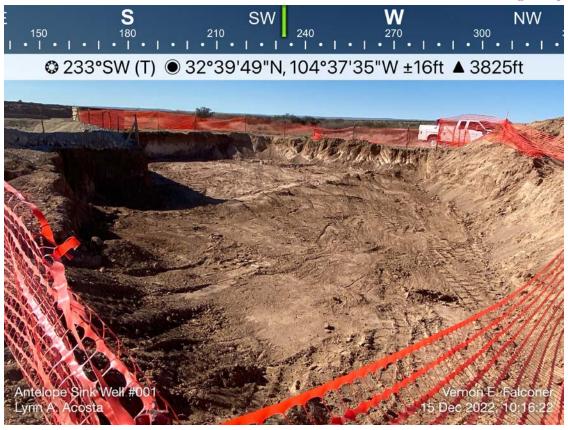




Received by OCD: 1/13/2023 8:16:48 AM

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APPENDIX F LABORATORY ANALYTICAL REPORT



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

December 29, 2022

Lynn A. Acosta Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-8801

FAX

RE: Antelope Sink 001 OrderNo.: 2212A84

Dear Lynn A. Acosta:

Hall Environmental Analysis Laboratory received 31 sample(s) on 12/17/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CBS-1

Project: Antelope Sink 001 **Collection Date:** 12/15/2022

2212A84-001 Matrix: SOIL Lab ID: Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	12/22/2022 4:41:52 PM	72277
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/21/2022 4:13:12 PM	72215
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/21/2022 4:13:12 PM	72215
Surr: DNOP	108	21-129	%Rec	1	12/21/2022 4:13:12 PM	72215
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/21/2022 9:39:00 PM	72183
Surr: BFB	99.3	37.7-212	%Rec	1	12/21/2022 9:39:00 PM	72183
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 9:39:00 PM	72183
Toluene	ND	0.048	mg/Kg	1	12/21/2022 9:39:00 PM	72183
Ethylbenzene	ND	0.048	mg/Kg	1	12/21/2022 9:39:00 PM	72183
Xylenes, Total	ND	0.097	mg/Kg	1	12/21/2022 9:39:00 PM	72183
Surr: 4-Bromofluorobenzene	111	70-130	%Rec	1	12/21/2022 9:39:00 PM	72183

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CBS-2

Project: Antelope Sink 001 **Collection Date:** 12/15/2022

Lab ID: 2212A84-002 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	12/22/2022 4:54:17 PM	72277
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/21/2022 4:23:51 PM	72215
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/21/2022 4:23:51 PM	72215
Surr: DNOP	127	21-129	%Rec	1	12/21/2022 4:23:51 PM	72215
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2022 9:59:00 PM	72183
Surr: BFB	100	37.7-212	%Rec	1	12/21/2022 9:59:00 PM	72183
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 9:59:00 PM	72183
Toluene	ND	0.049	mg/Kg	1	12/21/2022 9:59:00 PM	72183
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2022 9:59:00 PM	72183
Xylenes, Total	ND	0.098	mg/Kg	1	12/21/2022 9:59:00 PM	72183
Surr: 4-Bromofluorobenzene	112	70-130	%Rec	1	12/21/2022 9:59:00 PM	72183

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CBS-3

 Project:
 Antelope Sink 001
 Collection Date: 12/15/2022

 Lab ID:
 2212A84-003
 Matrix: SOIL
 Received Date: 12/17/2022 10:00:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 mg/Kg 20 12/22/2022 5:06:41 PM 72277 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 13 mg/Kg 12/21/2022 4:34:32 PM 72215 Motor Oil Range Organics (MRO) ND 43 mg/Kg 1 12/21/2022 4:34:32 PM 72215 Surr: DNOP %Rec 113 21-129 12/21/2022 4:34:32 PM 72215 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 12/21/2022 10:18:00 PM 72183 4.9 mg/Kg Surr: BFB 95.8 37.7-212 %Rec 12/21/2022 10:18:00 PM 72183 **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 0.024 12/21/2022 10:18:00 PM 72183 Benzene mg/Kg Toluene ND 0.049 mg/Kg 12/21/2022 10:18:00 PM 72183 Ethylbenzene ND 0.049 mg/Kg 1 12/21/2022 10:18:00 PM 72183 Xylenes, Total ND 0.098 mg/Kg 12/21/2022 10:18:00 PM 72183 Surr: 4-Bromofluorobenzene 70-130 107 %Rec 12/21/2022 10:18:00 PM 72183

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Antelope Sink 001

Project:

Analytical Report Lab Order 2212A84

Collection Date: 12/15/2022

Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CBS-4

Lab ID: 2212A84-004 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	61	mg/Kg	20	12/22/2022 5:19:05 PM 72277
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	12/21/2022 4:45:20 PM 72215
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	12/21/2022 4:45:20 PM 72215
Surr: DNOP	111	21-129	%Rec	1	12/21/2022 4:45:20 PM 72215
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/21/2022 10:38:00 PM 72183
Surr: BFB	105	37.7-212	%Rec	1	12/21/2022 10:38:00 PM 72183
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 10:38:00 PM 72183
Toluene	ND	0.048	mg/Kg	1	12/21/2022 10:38:00 PM 72183
Ethylbenzene	ND	0.048	mg/Kg	1	12/21/2022 10:38:00 PM 72183
Xylenes, Total	ND	0.097	mg/Kg	1	12/21/2022 10:38:00 PM 72183
Surr: 4-Bromofluorobenzene	111	70-130	%Rec	1	12/21/2022 10:38:00 PM 72183

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates **Client Sample ID: CBS-5**

Project: Antelope Sink 001 **Collection Date:** 12/15/2022

2212A84-005 Lab ID: Matrix: SOIL Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	12/22/2022 5:31:30 PM 72277
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/21/2022 6:58:02 PM 72215
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/21/2022 6:58:02 PM 72215
Surr: DNOP	144	21-129	S	%Rec	1	12/21/2022 6:58:02 PM 72215
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/21/2022 10:58:00 PM 72183
Surr: BFB	102	37.7-212		%Rec	1	12/21/2022 10:58:00 PM 72183
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/21/2022 10:58:00 PM 72183
Toluene	ND	0.049		mg/Kg	1	12/21/2022 10:58:00 PM 72183
Ethylbenzene	ND	0.049		mg/Kg	1	12/21/2022 10:58:00 PM 72183
Xylenes, Total	ND	0.098		mg/Kg	1	12/21/2022 10:58:00 PM 72183
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	12/21/2022 10:58:00 PM 72183

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CBS-6

Project: Antelope Sink 001 **Collection Date:** 12/15/2022

Lab ID: 2212A84-006 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	12/23/2022 4:54:17 AM 72290
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	12/21/2022 11:54:05 PM 72215
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	12/21/2022 11:54:05 PM 72215
Surr: DNOP	121	21-129	%Rec	1	12/21/2022 11:54:05 PM 72215
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2022 11:17:00 PM 72183
Surr: BFB	98.0	37.7-212	%Rec	1	12/21/2022 11:17:00 PM 72183
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 11:17:00 PM 72183
Toluene	ND	0.049	mg/Kg	1	12/21/2022 11:17:00 PM 72183
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2022 11:17:00 PM 72183
Xylenes, Total	ND	0.098	mg/Kg	1	12/21/2022 11:17:00 PM 72183
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	12/21/2022 11:17:00 PM 72183

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CBS-15

Project: Antelope Sink 001

Collection Date: 12/15/2022

Lab ID: 2212A84-015 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 9:11:27 AM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/22/2022 2:01:13 AM 72228
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	12/22/2022 2:01:13 AM 72228
Surr: DNOP	94.8	21-129	%Rec	1	12/22/2022 2:01:13 AM 72228
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/21/2022 11:58:00 AM 72191
Surr: BFB	105	37.7-212	%Rec	1	12/21/2022 11:58:00 AM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	12/21/2022 11:58:00 AM 72191
Toluene	ND	0.050	mg/Kg	1	12/21/2022 11:58:00 AM 72191
Ethylbenzene	ND	0.050	mg/Kg	1	12/21/2022 11:58:00 AM 72191
Xylenes, Total	ND	0.099	mg/Kg	1	12/21/2022 11:58:00 AM 72191
Surr: 4-Bromofluorobenzene	114	70-130	%Rec	1	12/21/2022 11:58:00 AM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CSW-1

Project: Antelope Sink 001

Collection Date: 12/15/2022

Lab ID: 2212A84-016 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JTT
Chloride	ND	60		mg/Kg	20	12/23/2022 9:23:52 AM	72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/22/2022 2:32:28 AM	72228
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/22/2022 2:32:28 AM	72228
Surr: DNOP	148	21-129	S	%Rec	1	12/22/2022 2:32:28 AM	72228
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/21/2022 1:07:00 PM	72191
Surr: BFB	106	37.7-212		%Rec	1	12/21/2022 1:07:00 PM	72191
EPA METHOD 8021B: VOLATILES						Analyst	: CCM
Benzene	ND	0.024		mg/Kg	1	12/21/2022 1:07:00 PM	72191
Toluene	ND	0.048		mg/Kg	1	12/21/2022 1:07:00 PM	72191
Ethylbenzene	ND	0.048		mg/Kg	1	12/21/2022 1:07:00 PM	72191
Xylenes, Total	ND	0.097		mg/Kg	1	12/21/2022 1:07:00 PM	72191
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	12/21/2022 1:07:00 PM	72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
 P Sample pH Not In Range
- RL Reporting Limit
- Page 16 of 38

Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CSW-2

Project: Antelope Sink 001

Collection Date: 12/15/2022

Lab ID: 2212A84-017 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed H	Batch
EPA METHOD 300.0: ANIONS					Analyst:	JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 9:36:17 AM	72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst:	DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/22/2022 2:42:51 AM	72228
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/22/2022 2:42:51 AM	72228
Surr: DNOP	127	21-129	%Rec	1	12/22/2022 2:42:51 AM	72228
EPA METHOD 8015D: GASOLINE RANGE					Analyst: (ССМ
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/21/2022 2:07:00 PM	72191
Surr: BFB	105	37.7-212	%Rec	1	12/21/2022 2:07:00 PM	72191
EPA METHOD 8021B: VOLATILES					Analyst: (ССМ
Benzene	ND	0.024	mg/Kg	1	12/21/2022 2:07:00 PM	72191
Toluene	ND	0.048	mg/Kg	1	12/21/2022 2:07:00 PM	72191
Ethylbenzene	ND	0.048	mg/Kg	1	12/21/2022 2:07:00 PM	72191
Xylenes, Total	ND	0.097	mg/Kg	1	12/21/2022 2:07:00 PM	72191
Surr: 4-Bromofluorobenzene	113	70-130	%Rec	1	12/21/2022 2:07:00 PM	72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Antelope Sink 001

Project:

Analytical Report Lab Order 2212A84

Collection Date: 12/15/2022

Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates **Client Sample ID: CSW-3**

2212A84-018 Matrix: SOIL Lab ID: Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 9:48:41 AM	72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/22/2022 2:53:14 AM	72228
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/22/2022 2:53:14 AM	72228
Surr: DNOP	105	21-129	%Rec	1	12/22/2022 2:53:14 AM	72228
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2022 2:26:00 PM	72191
Surr: BFB	93.6	37.7-212	%Rec	1	12/21/2022 2:26:00 PM	72191
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.025	mg/Kg	1	12/21/2022 2:26:00 PM	72191
Toluene	ND	0.049	mg/Kg	1	12/21/2022 2:26:00 PM	72191
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2022 2:26:00 PM	72191
Xylenes, Total	ND	0.098	mg/Kg	1	12/21/2022 2:26:00 PM	72191
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	12/21/2022 2:26:00 PM	72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CSW-4

Project: Antelope Sink 001

Collection Date: 12/15/2022

Lab ID: 2212A84-019 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 10:01:06 AM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/22/2022 3:03:39 AM 72228
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/22/2022 3:03:39 AM 72228
Surr: DNOP	116	21-129	%Rec	1	12/22/2022 3:03:39 AM 72228
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/21/2022 2:46:00 PM 72191
Surr: BFB	93.0	37.7-212	%Rec	1	12/21/2022 2:46:00 PM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	12/21/2022 2:46:00 PM 72191
Toluene	ND	0.050	mg/Kg	1	12/21/2022 2:46:00 PM 72191
Ethylbenzene	ND	0.050	mg/Kg	1	12/21/2022 2:46:00 PM 72191
Xylenes, Total	ND	0.10	mg/Kg	1	12/21/2022 2:46:00 PM 72191
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	12/21/2022 2:46:00 PM 72191

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates **Client Sample ID: CSW-5 Project:** Antelope Sink 001 **Collection Date:** 12/15/2022

2212A84-020 Matrix: SOIL Lab ID: Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 10:13:30 AM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/22/2022 3:14:07 AM 72228
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/22/2022 3:14:07 AM 72228
Surr: DNOP	113	21-129	%Rec	1	12/22/2022 3:14:07 AM 72228
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/21/2022 3:05:00 PM 72191
Surr: BFB	104	37.7-212	%Rec	1	12/21/2022 3:05:00 PM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 3:05:00 PM 72191
Toluene	ND	0.048	mg/Kg	1	12/21/2022 3:05:00 PM 72191
Ethylbenzene	ND	0.048	mg/Kg	1	12/21/2022 3:05:00 PM 72191
Xylenes, Total	ND	0.096	mg/Kg	1	12/21/2022 3:05:00 PM 72191
Surr: 4-Bromofluorobenzene	110	70-130	%Rec	1	12/21/2022 3:05:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CSW-6

Project: Antelope Sink 001

Collection Date: 12/15/2022

Lab ID: 2212A84-021 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 10:25:55 AM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/22/2022 3:24:35 AM 72228
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	12/22/2022 3:24:35 AM 72228
Surr: DNOP	109	21-129	%Rec	1	12/22/2022 3:24:35 AM 72228
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2022 3:25:00 PM 72191
Surr: BFB	99.1	37.7-212	%Rec	1	12/21/2022 3:25:00 PM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 3:25:00 PM 72191
Toluene	ND	0.049	mg/Kg	1	12/21/2022 3:25:00 PM 72191
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2022 3:25:00 PM 72191
Xylenes, Total	ND	0.097	mg/Kg	1	12/21/2022 3:25:00 PM 72191
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	12/21/2022 3:25:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CSW-7

Project: Antelope Sink 001

Collection Date: 12/15/2022

Lab ID: 2212A84-022 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 11:03:09 AM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	12/22/2022 3:35:04 AM 72228
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	12/22/2022 3:35:04 AM 72228
Surr: DNOP	121	21-129	%Rec	1	12/22/2022 3:35:04 AM 72228
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2022 3:45:00 PM 72191
Surr: BFB	102	37.7-212	%Rec	1	12/21/2022 3:45:00 PM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	12/21/2022 3:45:00 PM 72191
Toluene	ND	0.049	mg/Kg	1	12/21/2022 3:45:00 PM 72191
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2022 3:45:00 PM 72191
Xylenes, Total	ND	0.099	mg/Kg	1	12/21/2022 3:45:00 PM 72191
Surr: 4-Bromofluorobenzene	113	70-130	%Rec	1	12/21/2022 3:45:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Antelope Sink 001

Project:

Analytical Report Lab Order 2212A84

Collection Date: 12/15/2022

Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates **Client Sample ID: CSW-8**

2212A84-023 Matrix: SOIL Lab ID: Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	59		mg/Kg	20	12/23/2022 11:15:34 AM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/22/2022 10:42:03 PM 72256
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/22/2022 10:42:03 PM 72256
Surr: DNOP	129	21-129	S	%Rec	1	12/22/2022 10:42:03 PM 72256
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/21/2022 4:05:00 PM 72191
Surr: BFB	99.4	37.7-212		%Rec	1	12/21/2022 4:05:00 PM 72191
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/21/2022 4:05:00 PM 72191
Toluene	ND	0.049		mg/Kg	1	12/21/2022 4:05:00 PM 72191
Ethylbenzene	ND	0.049		mg/Kg	1	12/21/2022 4:05:00 PM 72191
Xylenes, Total	ND	0.097		mg/Kg	1	12/21/2022 4:05:00 PM 72191
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	12/21/2022 4:05:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CSW-9 **Project:** Antelope Sink 001 **Collection Date:** 12/15/2022

2212A84-024 Matrix: SOIL Lab ID: Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	61	mg/Kg	20	12/23/2022 11:27:59 AM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/22/2022 10:52:39 PM 72256
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	12/22/2022 10:52:39 PM 72256
Surr: DNOP	118	21-129	%Rec	1	12/22/2022 10:52:39 PM 72256
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2022 4:24:00 PM 72191
Surr: BFB	103	37.7-212	%Rec	1	12/21/2022 4:24:00 PM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	12/21/2022 4:24:00 PM 72191
Toluene	ND	0.049	mg/Kg	1	12/21/2022 4:24:00 PM 72191
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2022 4:24:00 PM 72191
Xylenes, Total	ND	0.098	mg/Kg	1	12/21/2022 4:24:00 PM 72191
Surr: 4-Bromofluorobenzene	113	70-130	%Rec	1	12/21/2022 4:24:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CSW-10

Project: Antelope Sink 001

Collection Date: 12/15/2022

Lab ID: 2212A84-025 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	12/23/2022 11:40:24 AM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/22/2022 11:06:00 PM 72256
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/22/2022 11:06:00 PM 72256
Surr: DNOP	135	21-129	S	%Rec	1	12/22/2022 11:06:00 PM 72256
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/21/2022 5:04:00 PM 72191
Surr: BFB	99.3	37.7-212		%Rec	1	12/21/2022 5:04:00 PM 72191
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/21/2022 5:04:00 PM 72191
Toluene	ND	0.049		mg/Kg	1	12/21/2022 5:04:00 PM 72191
Ethylbenzene	ND	0.049		mg/Kg	1	12/21/2022 5:04:00 PM 72191
Xylenes, Total	ND	0.098		mg/Kg	1	12/21/2022 5:04:00 PM 72191
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	12/21/2022 5:04:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CSW-11

Project: Antelope Sink 001

Collection Date: 12/15/2022

Lab ID: 2212A84-026 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 11:52:48 AM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/22/2022 11:16:55 PM 72256
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/22/2022 11:16:55 PM 72256
Surr: DNOP	112	21-129	%Rec	1	12/22/2022 11:16:55 PM 72256
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/21/2022 5:23:00 PM 72191
Surr: BFB	96.5	37.7-212	%Rec	1	12/21/2022 5:23:00 PM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 5:23:00 PM 72191
Toluene	ND	0.048	mg/Kg	1	12/21/2022 5:23:00 PM 72191
Ethylbenzene	ND	0.048	mg/Kg	1	12/21/2022 5:23:00 PM 72191
Xylenes, Total	ND	0.096	mg/Kg	1	12/21/2022 5:23:00 PM 72191
Surr: 4-Bromofluorobenzene	110	70-130	%Rec	1	12/21/2022 5:23:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CSW-12

Project: Antelope Sink 001

Collection Date: 12/15/2022

Lab ID: 2212A84-027 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 12:05:13 PM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/22/2022 11:27:41 PM 72256
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/22/2022 11:27:41 PM 72256
Surr: DNOP	109	21-129	%Rec	1	12/22/2022 11:27:41 PM 72256
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2022 5:43:00 PM 72191
Surr: BFB	99.7	37.7-212	%Rec	1	12/21/2022 5:43:00 PM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 5:43:00 PM 72191
Toluene	ND	0.049	mg/Kg	1	12/21/2022 5:43:00 PM 72191
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2022 5:43:00 PM 72191
Xylenes, Total	ND	0.097	mg/Kg	1	12/21/2022 5:43:00 PM 72191
Surr: 4-Bromofluorobenzene	111	70-130	%Rec	1	12/21/2022 5:43:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates **Client Sample ID:** CSW-13 **Project:** Antelope Sink 001 **Collection Date:** 12/15/2022

2212A84-028 Matrix: SOIL Lab ID: Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 12:17:37 PM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/22/2022 11:38:24 PM 72256
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/22/2022 11:38:24 PM 72256
Surr: DNOP	106	21-129	%Rec	1	12/22/2022 11:38:24 PM 72256
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2022 6:03:00 PM 72191
Surr: BFB	96.8	37.7-212	%Rec	1	12/21/2022 6:03:00 PM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 6:03:00 PM 72191
Toluene	ND	0.049	mg/Kg	1	12/21/2022 6:03:00 PM 72191
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2022 6:03:00 PM 72191
Xylenes, Total	ND	0.098	mg/Kg	1	12/21/2022 6:03:00 PM 72191
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	12/21/2022 6:03:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CSW-14 **Project:** Antelope Sink 001 **Collection Date:** 12/15/2022

2212A84-029 Lab ID: Matrix: SOIL Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 12:30:01 PM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	12/22/2022 11:49:07 PM 72256
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	12/22/2022 11:49:07 PM 72256
Surr: DNOP	109	21-129	%Rec	1	12/22/2022 11:49:07 PM 72256
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/21/2022 6:22:00 PM 72191
Surr: BFB	98.4	37.7-212	%Rec	1	12/21/2022 6:22:00 PM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 6:22:00 PM 72191
Toluene	ND	0.048	mg/Kg	1	12/21/2022 6:22:00 PM 72191
Ethylbenzene	ND	0.048	mg/Kg	1	12/21/2022 6:22:00 PM 72191
Xylenes, Total	ND	0.096	mg/Kg	1	12/21/2022 6:22:00 PM 72191
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	12/21/2022 6:22:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CSW-15 **Project:** Antelope Sink 001 **Collection Date:** 12/15/2022

2212A84-030 Matrix: SOIL Lab ID: Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 12:42:26 PM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	12/22/2022 11:59:49 PM 72256
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	12/22/2022 11:59:49 PM 72256
Surr: DNOP	117	21-129	%Rec	1	12/22/2022 11:59:49 PM 72256
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2022 6:42:00 PM 72191
Surr: BFB	103	37.7-212	%Rec	1	12/21/2022 6:42:00 PM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 6:42:00 PM 72191
Toluene	ND	0.049	mg/Kg	1	12/21/2022 6:42:00 PM 72191
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2022 6:42:00 PM 72191
Xylenes, Total	ND	0.097	mg/Kg	1	12/21/2022 6:42:00 PM 72191
Surr: 4-Bromofluorobenzene	113	70-130	%Rec	1	12/21/2022 6:42:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CSW-16 **Project:** Antelope Sink 001 **Collection Date:** 12/15/2022

2212A84-031 Matrix: SOIL Lab ID: Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 12:54:51 PM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/23/2022 12:10:29 AM 72256
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/23/2022 12:10:29 AM 72256
Surr: DNOP	97.7	21-129	%Rec	1	12/23/2022 12:10:29 AM 72256
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/21/2022 7:02:00 PM 72191
Surr: BFB	103	37.7-212	%Rec	1	12/21/2022 7:02:00 PM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 7:02:00 PM 72191
Toluene	ND	0.048	mg/Kg	1	12/21/2022 7:02:00 PM 72191
Ethylbenzene	ND	0.048	mg/Kg	1	12/21/2022 7:02:00 PM 72191
Xylenes, Total	ND	0.097	mg/Kg	1	12/21/2022 7:02:00 PM 72191
Surr: 4-Bromofluorobenzene	113	70-130	%Rec	1	12/21/2022 7:02:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2212A84

29-Dec-22

Client: Souder, Miller & Associates

Project: Antelope Sink 001

Sample ID: MB-72277 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 72277 RunNo: 93518

Prep Date: 12/22/2022 Analysis Date: 12/22/2022 SeqNo: 3373636 Units: mg/Kg

SPK value SPK Ref Val **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit %RPD Qual

Chloride ND 1.5

Sample ID: LCS-72277 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 72277 RunNo: 93518

Prep Date: 12/22/2022 Analysis Date: 12/22/2022 SeqNo: 3373637 Units: mg/Kg

SPK value SPK Ref Val **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit %RPD Qual

Chloride 14 1.5 15.00 94.3 110

Sample ID: MB-72290 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 72290 RunNo: 93534

Prep Date: 12/22/2022 Analysis Date: 12/23/2022 SeqNo: 3374330 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte

Chloride ND 1.5

Sample ID: LCS-72290 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 72290 RunNo: 93534

Analysis Date: 12/23/2022 Prep Date: 12/22/2022 SeqNo: 3374331 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride 14 1.5 15.00 95.6 90

Sample ID: MB-72293 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 72293 RunNo: 93543

Prep Date: 12/22/2022 Analysis Date: 12/23/2022 SeqNo: 3374909 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Chloride ND

1.5

SampType: LCS Sample ID: LCS-72293 TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 72293 RunNo: 93543

Prep Date: 12/22/2022 Analysis Date: 12/23/2022 SeqNo: 3374910 Units: mg/Kg

%RPD **RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit Qual

14 1.5 92.5 Chloride 15.00 110

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank

Above Quantitation Range/Estimated Value

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 32 of 38

Hall Environmental Analysis Laboratory, Inc.

Result

47

5.4

PQL

15

WO#: **2212A84**

29-Dec-22

Client: Souder, Miller & Associates

Project: Antelope Sink 001

Sample ID: LCS-72215	SampType:	LCS	TestCode:	EPA Method	8015M/D: Diesel Ra	015M/D: Diesel Range Organics			
Client ID: LCSS	Batch ID:	72215	RunNo:	93461					
Prep Date: 12/20/2022	Analysis Date:	12/21/2022	SeqNo:	3370983	Units: mg/Kg				
Analyte	Result PO	QL SPK value	SPK Ref Val %RE0	LowLimit	HighLimit %RP	D RPDLimit	Qual		
Diesel Range Organics (DRO)	48	15 50.00	0 95.	2 64.4	127				
Surr: DNOP	5.8	5.000	11	7 21	129				
Sample ID: MB-72215	SampType:	MBLK	TestCode:	EPA Method	8015M/D: Diesel Ra	nge Organics			
Client ID: PBS	Batch ID:	72215	RunNo:						
Prep Date: 12/20/2022	Analysis Date:	12/21/2022	SeqNo:	3370985	Units: mg/Kg				
Analyte	Result PC	QL SPK value	SPK Ref Val %RE0	C LowLimit	HighLimit %RP	D RPDLimit	Qual		
Diesel Range Organics (DRO)	ND	15							
Motor Oil Range Organics (MRO)	ND	50							
Surr: DNOP	12	10.00	12	21	129				
Sample ID: 2212A84-015AMS	SampType:	MS	TestCode:	EPA Method	8015M/D: Diesel Ra	nge Organics			
Client ID: CBS-15	Batch ID:	72228	RunNo:	93461					
Prep Date: 12/20/2022	Analysis Date:	12/22/2022	SeqNo:	3372809	Units: mg/Kg				

Sample ID: 2212A84-015AMSI	SampT	SampType: MSD TestCode: EPA Method					8015M/D: Diesel Range Organics				
Client ID: CBS-15	Batch	ID: 72	228	R	tunNo: 9	3461					
Prep Date: 12/20/2022	Analysis D	ate: 12	2/22/2022	S	SeqNo: 3	372810	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	47	14	46.38	0	102	36.1	154	0.0628	33.9		
Surr: DNOP	5.3		4.638		114	21	129	0	0		

0

LowLimit

36.1

21

97.0

111

HighLimit

154

129

%RPD

RPDLimit

Qual

SPK value SPK Ref Val %REC

48.88

4.888

Sample ID: LCS-72228 SampType: LCS				Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch	Batch ID: 72228 RunNo: 93461									
Prep Date: 12/20/2022	Analysis D	ate: 12	2/22/2022	SeqNo: 3372867			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	46	15	50.00	0	92.5	64.4	127				
Surr: DNOP	6.2		5.000		125	21	129				

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

Diesel Range Organics (DRO)

Surr: DNOP

- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2212A84 29-Dec-22

Client: Souder, Miller & Associates

Project: Antelope Sink 001

Sample ID: MB-72228	SampType:	MBLK	Test	Code: EPA Method	8015M/D: Diesel Rang	e Organics			
Client ID: PBS	Batch ID:	72228	R	unNo: 93461					
Prep Date: 12/20/2022	Analysis Date:	12/22/2022	Se	eqNo: 3372868	Units: mg/Kg				
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	ND	15							
Motor Oil Range Organics (MRO)	ND	50							
Surr: DNOP	11	10.00		110 21	129				
Sample ID: MB-72256	SampType:	MBLK	Test	Code: EPA Method	8015M/D: Diesel Rang	: Diesel Range Organics			
Client ID: PBS	Batch ID:	72256	R	unNo: 93500					
Prep Date: 12/21/2022	Analysis Date:	12/22/2022	Se	eqNo: 3372932	Units: mg/Kg				
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	ND	15							
Motor Oil Range Organics (MRO)	ND	50							
Surr: DNOP	12	10.00		118 21	129				
Sample ID: LCS-72256	SampType:	LCS	Test	Code: EPA Method	8015M/D: Diesel Rang	e Organics			
Client ID: LCSS	Batch ID:	72256	R	unNo: 93500					
Prep Date: 12/21/2022	Analysis Date:	12/22/2022	Se	eqNo: 3374250	Units: mg/Kg				
Analyte	Result PC	L SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	50	15 50.00	0	99.6 64.4	127				
Surr: DNOP	6.8	5.000		136 21	129		S		
Sample ID: LCS-72271	SampType:	LCS	Test	Code: EPA Method	8015M/D: Diesel Rang	e Organics			
Client ID: I CSS	Batch ID:	72271	Di	unNo: 93500					

Sample ID: LCS-72271	SampType: LC	S	rest	Code: El	de: EPA Method 8015M/D: Diesei Range Organics				
Client ID: LCSS	Batch ID: 72	271	R	tunNo: 9	3500				
Prep Date: 12/22/2022	Analysis Date: 12	2/22/2022	S	eqNo: 3	374252	Units: %Rec			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.9	5.000		117	21	129			

Sample ID: MB-72271	SampT	ype: Mi	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	n ID: 72	271	F	RunNo: 9	3500				
Prep Date: 12/22/2022	Analysis D	ate: 12	2/22/2022	S	SeqNo: 3	374254	Units: %Red	C		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		111	21	129			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank

- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2212A84

29-Dec-22

Client: Souder, Miller & Associates

Project: Antelope Sink 001

Sample ID: mb-72183 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 72183 RunNo: 93433

Prep Date: 12/19/2022 Analysis Date: 12/20/2022 SeqNo: 3369855 Units: mg/Kg

SPK value SPK Ref Val **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit %RPD Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 880 1000 87.6 37.7 212

Sample ID: Ics-72183 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 72183 RunNo: 93433

Prep Date: 12/19/2022 Analysis Date: 12/20/2022 SeqNo: 3369856 Units: mg/Kg

HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 89.8 72.3 137

178

37.7

212

212

1000 Sample ID: LCS-72191 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 72191 RunNo: 93486

1800

Prep Date: 12/19/2022 Analysis Date: 12/21/2022 SeqNo: 3371848 Units: mg/Kg

SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result POI %REC LowLimit HighLimit Qual Gasoline Range Organics (GRO) 25 5.0 25.00 0 99.8 72.3 137 Surr: BFB 37.7 S 2200 1000 223 212

Sample ID: mb-72191 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 72191 RunNo: 93486

Prep Date: 12/19/2022 Analysis Date: 12/21/2022 SeqNo: 3371849 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Result PQL LowLimit HighLimit Qual Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 104 37.7

Sample ID: 2212A84-015ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: CBS-15 Batch ID: 72191 RunNo: 93486

Prep Date: 12/19/2022 Analysis Date: 12/21/2022 SeqNo: 3371851 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 5.0 0 70 24.93 98.9 130 Surr: BFB 2300 997.0 234 37.7 212 S

TestCode: EPA Method 8015D: Gasoline Range Sample ID: 2212A84-015amsd SampType: MSD

Client ID: **CBS-15** Batch ID: 72191 RunNo: 93486

Prep Date: 12/19/2022 Units: mg/Kg Analysis Date: 12/21/2022 SeqNo: 3371852

PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual

Qualifiers:

Surr: BFB

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank

Above Quantitation Range/Estimated Value

Analyte detected below quantitation limits

Sample pH Not In Range

RL. Reporting Limit Page 35 of 38

Hall Environmental Analysis Laboratory, Inc.

WO#: **2212A84**

29-Dec-22

Client: Souder, Miller & Associates

Project: Antelope Sink 001

Sample ID: 2212A84-015amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: CBS-15 Batch ID: 72191 RunNo: 93486

Prep Date: 12/19/2022 Analysis Date: 12/21/2022 SeqNo: 3371852 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	24.93	0	105	70	130	5.93	20	
Surr: BFB	2300		997.0		235	37.7	212	0	0	S

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2212A84 29-Dec-22**

Client: Souder, Miller & Associates

Project: Antelope Sink 001

Sample ID: mb-72183 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 72183 RunNo: 93433

Prep Date: 12/19/2022 Analysis Date: 12/20/2022 SeqNo: 3369901 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Benzene
 ND
 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 0.89 1.000 89.4 70 130

Sample ID: LCS-72183 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 72183 RunNo: 93433

Prep Date: 12/19/2022 Analysis Date: 12/20/2022 SeqNo: 3369902 Units: mg/Kg

1 10p Bate. 12/13/2022	7 thaiyolo L	, ic. 12	12012022	_	oq110. 3.	303302	Office. High	9			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.92	0.025	1.000	0	91.6	80	120				
Toluene	0.93	0.050	1.000	0	92.6	80	120				
Ethylbenzene	0.92	0.050	1.000	0	91.8	80	120				
Xylenes, Total	2.8	0.10	3.000	0	92.1	80	120				
Surr: 4-Bromofluorobenzene	0.91		1.000		90.9	70	130				

Sample ID: LCS-72191 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 72191 RunNo: 93486 Prep Date: 12/19/2022 Analysis Date: 12/21/2022 SeqNo: 3371928 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.025 109 80 1.000 120 Benzene 1.1 n Toluene 0.050 1.000 0 110 80 120 1.1 120 0 109 80 Ethylbenzene 1.1 0.050 1.000 Xylenes, Total 3.3 0.10 3.000 0 110 80 120 Surr: 4-Bromofluorobenzene 1.1 1.000 114 70 130

Sample ID: mb-72191 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 72191 RunNo: 93486

Prep Date: 12/19/2022	Analysis D	Date: 12	2/21/2022	5	SeqNo: 3	371929	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025					_		_	
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		113	70	130			

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2212A84**

29-Dec-22

Client: Souder, Miller & Associates

Project: Antelope Sink 001

Sample ID: 2212A84-016ams	SampT	ype: MS	3	Tes	tCode: El	PA Method	8021B: Volat	iles		
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Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.024	0.9625	0	103	68.8	120			
Toluene	1.0	0.048	0.9625	0	104	73.6	124			
Ethylbenzene	1.0	0.048	0.9625	0	105	72.7	129			
Xylenes, Total	3.0	0.096	2.887	0	105	75.7	126			
Surr: 4-Bromofluorobenzene	1.1		0.9625		114	70	130			

Sample ID: 2212A84-016ams	sd Samp1	Гуре: М \$	SD	Tes	tCode: El	PA Method	8021B: Volat	iles		
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Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9606	0	106	68.8	120	3.12	20	
Toluene	1.0	0.048	0.9606	0	108	73.6	124	3.12	20	
Ethylbenzene	1.0	0.048	0.9606	0	109	72.7	129	3.61	20	
Xylenes, Total	3.1	0.096	2.882	0	109	75.7	126	3.75	20	
Surr: 4-Bromofluorobenzene	1.1		0.9606		113	70	130	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 38 of 38



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

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4. Were all samp	les received	at a tempera	ture of >0° C	to 6.0°C	Yes 🗹	No 🗌	NA 🗌	
5. Sample(s) in p	oroper contai	ner(s)?			Yes 🗹	No 🗌		
6. Sufficient sam	ple volume f	or indicated te	est(s)?		Yes 🗹	No 🗌		
7. Are samples (except VOA	and ONG) pro	perly preserve	ed?	Yes 🗹	No 🗌		
8. Was preservat	ive added to	bottles?			Yes 🗌	No 🗹	NA 🗆	
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January 12, 2023

#5E31369-BG01

NMOCD District 2 506 W. Texas Artesia, New Mexico 88210

SUBJECT: Closure Report for the Antelope Sink #001 Release (nAPP2205926232), Eddy County, New Mexico

To Whom It May Concern:

On behalf of FE-NM, LLC, Souder, Miller & Associates (SMA) has prepared this Closure Report that describes the remediation of a release of liquids related to oil and gas production activities at the Antelope Sink Unit #001 site. The site is in Unit G, Section 18, Township 19S, Range 24E, Eddy County, New Mexico, on State land. Figure 1 illustrates the vicinity and site location on a United States Geological Service (USGS) 7.5-minute quadrangle map.

Table 1 summarizes information regarding the release.

Table 1: Release Information and Closure Criteria					
Site Name	Antelope Sink Unit #001	Operator	FE-NM, LLC		
API Number	30-015-10041	Location	32.66316, -104.62593		
Tracking Number	NAPP2205926232				
Estimated Date of Release	2/17/2022	Date Reported to NMOCD	2/18/2022		
Land Owner	New Mexico State Land	Reported To	NMOCD		
Source of Release	Valve froze which caused the incident				
Released Volume	21 BBL	Released Material	Produced Water		
Recovered Volume	0 BBL	Net Release	21 BBL		
NMOCD Closure Criteria	<50 feet to groundwater				
SMA Response Dates	March 30, 2022; May 20, 2022; and December 15, 2022				

Antelope Sink Well #001 Remediation Closure Report January 12, 2023

Page 2 of 5

1.0 Background

On February 17, 2022, a release was discovered at the Antelope Sink Unit #001 site due to a frozen valve. Initial response activities were conducted by operator, and included source elimination, containment, and site stabilization activities. Figure 1 illustrates the vicinity and site location. Figures 2 and 3 illustrate the release location. The release notification form is included in Appendix A.

2.0 Site Information and Closure Criteria

The Antelope Sink Unit #001 is an active production facility located approximately 18 miles southwest of Artesia, New Mexico on State land at an elevation of approximately 3,823 feet above mean sea level (amsl).

Depth to Groundwater

A search of the New Mexico Office of the State Engineer (NMOSE) New Mexico Water Rights Reporting System and the USGS National Water Information System did not report any wells within ½-mile of the site. Based on records of wells within the larger vicinity, depth to groundwater in the area is estimated to be an average of 382 feet below grade surface (bgs). The minimum reported depth is 285 feet bgs and the maximum is 480 bgs. Water well documentation is included in Appendix B and registered wells in the vicinity are illustrated on Figure 1.

Wellhead Protection Area

There are no known water sources within ½-mile of the location, according to the NMOSE online water well database.

Distance to Nearest Significant Watercourse

The nearest significant watercourse is an unnamed tributary of the Fourmile Draw, located approximately 2,554 feet to the northwest.

Antelope Sink Unit #001 will be restored to meet the standards of Table I of 19.15.29.12 NMAC. Table 2 demonstrates the Closure Criteria applicable to this location. Figure 2 illustrates the site with 200 and 300-foot radii to indicate that it does not lie within a sensitive area. The site is not considered an "exploration, development, production or storage site" and therefore the top four feet must be remediated to the most stringent standards. Additionally, the release area did not occur on land considered "in-use", as outlined by 19.15.29.13.D NMAC. Therefore, the release area shall be reclaimed within the upper four feet to meet the standards of 19.15.29.13.D(1).

Based on the information presented herein, the applicable New Mexico Oil Conservation Division (NMOCD) Closure Criteria for this site is for a groundwater depth of less than 50 feet bgs in addition to the requirements of reclamation for the upper four feet of impacted soil.

3.0 Remediation Activities

Site characterization including delineation is detailed in the SMA's Remediation Plan dated June 6, 2022. Per the approved plan, SMA returned to the site to guide/oversee the excavation of contaminated soil beginning on December 05, 2022. SMA guided the excavation activities by collecting soil samples for field screening. Samples were screened for chloride using an electrical conductivity (EC) meter. The walls and base were excavated until field screening results indicated that the NMOCD Closure Criteria would be met. NMOCD was notified on December 13, 2022, that closure samples were expected to be collected in two (2) business days. A copy of this notification is included in Appendix C.

Antelope Sink Well #001 Remediation Closure Report January 12, 2023

Page 3 of 5

On December 15, 2022, SMA conducted confirmation sampling activities at the site. Confirmation samples were comprised of five-point composites collected from the base (CBS1 – CBS15) and walls (CSW1 – CSW16) of the excavation. A photolog is included in Appendix D.

A total of 31 samples were collected for laboratory analysis for total chloride using Environmental Protection Agency (EPA) Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D. Laboratory samples were collected in accordance with the sampling protocol included in Appendix E. Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico .

Figure 3 shows the extent of the final excavation and closure sample locations. Laboratory results are summarized in Table 3. The laboratory report is included in Appendix F.

4.0 Site Recommendations

As demonstrated in Table 3, all closure samples meet the Closure Criteria. The site has been remediated to meet the standards of Table I of 19.15.29.12 NMAC.

Contaminated soils were removed and replaced with clean backfill material to return the surface to previous contours. The contaminated soil was transported and disposed of at R360 Environmental Solutions midway between Carlsbad and Hobbs, New Mexico, an NMOCD-permitted disposal facility.

SMA recommends no further action and requests closure of Incident Number nAPP2205926232.

5.0 Scope and Limitations

The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation; and preparing this report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Lynn Acosta at 505-516-7469 or Heather Woods at 505-716-2787.

Submitted by:

SOUDER, MILLER & ASSOCIATES

Reviewed by:

Lynn A. Acosta

Staff Scientist

Lynn A. Acosta

Heather M. Woods, P.G. Project Geoscientist

Heather M. Woods

REFERENCES:

New Mexico Office of the State Engineer (NMOSE) online water well database https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 6/5/2022

ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map

Figure 2: Surface Water Radius Map

Figure 3: Confirmation Sample Location Map

Tables:

Table 2: NMOCD Closure Criteria Justification

Table 3: Summary of Confirmation Sample Results

Appendices:

Appendix A: Form C141

Appendix B: NMOSE Wells Report

Appendix C: Correspondence

Appendix D: Photolog

Appendix E: Sampling Protocol

Appendix F: Laboratory Analytical Report

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

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

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

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

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

CONDITIONS

Action 175760

CONDITIONS

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Tyler, TX 75711	175760
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CONDITIONS

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