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

State of New Mexico
Energy Minerals and Natural Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Philana Thompson	OGRID 247130
Contact Name Philana Thompson	Contact Telephone 5054861171
Contact email pthompson@merrion.bz	Incident # *(assigned by OCD)* nRM2025448240
Contact mailing address 610 Reilly Ave Farmington, NM 87401	

Location of Release Source

Latitude 36.7579498 Longitude -108.0734253
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Sunco Disposal #1	Site Type Surface Waste Facility (NM1-9)
Date Release Discovered: Unknown, prior to 2/20/2012	API# *(if applicable) 30-045-28653*

Unit Letter	Section	Township	Range	County
E	2	29N	12W	San Juan

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name: Agua Moss, LLC*)

Nature and Volume of Release

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

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

Cause of Release
Permitted Surface Waste Management Facility under NM-01-0009 Approved for use 1/27/1997 for Sunco Trucking Water Disposal Company. The nature and extent of what was placed in the landfarm is unknown, however, per permit conditions it was related to activities that took place for the Sunco Disposal #1 UICI-5 operations and no other outside waste was placed in the landfarm. Agua Moss, LLC has not utilized the landfarm since taking over operations 2/20/2012.

Incident ID	
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 of the liner integrity 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 office 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 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: ___Philana Thompson_____ Title: __Regulatory Compliance Spec_____

Signature: ____*Philana Thompson*_____ Date: __11/16/2022_____

email: ____pthompson@merrion.bz_____ Telephone: ___505-486-1171_____

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Nelson Velez Date: 12/08/2022

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

Souder, Miller & Associates♦201 S. Halagueno St.♦Carlsbad, NM 88220
(575) 689-8801

November 14, 2022

Mr. Nelson Velez
NMOCD District 3
1000 Rio Brazos Road
Aztec, New Mexico 87410

SUBJECT: Remediation Closure Report for the Agua Moss Surface Waste Management Facility Vadose Zone (nRM2025448240/NM1-9-0), San Juan County, New Mexico

Dear Mr. Velez,

On behalf of Agua Moss, LLC, Souder, Miller & Associates (SMA) has prepared this Remediation Closure Report that describes the remediation of chloride impacted vadose zone soils at the Agua Moss Surface Waste Management Facility (nRM2025448240/NM1-9-0). The remediation was performed in accordance with the Remediation Plan approved on August 17, 2022.

Per the approved Remediation Plan, two excavations were advanced on August 29, 2022, in the landfarm vadose zone areas exhibiting chloride concentrations exceeding the NMOCD Reclamation Standard. The NMOCD Closure Criteria per Table 1 of 19.15.29.12 New Mexico Administrative Code (NMAC) for the site is for a groundwater depth of 50 to 100 feet below grade surface (bgs) as established through site characterization/assessment documentation accepted by NMOCD on April 20. 2022.

To minimize the potential for cross contamination of the vadose zone soils with overlying treatment zone soils, the working areas were scraped approximately 4- to 6-inches bgs and temporarily stockpiled nearby. The excavations were advanced using a backhoe with spoils stockpiled nearby on the working area and thoroughly mixed. Upon completion of the two excavations, samples were collected from each wall and base, placed into laboratory supplied containers, and delivered on ice to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico. The excavations measured approximately 12 feet by 12 feet with a depth of 4 feet. The excavation and sample locations are illustrated on Figure 1. A summary of laboratory analytical results is included as Table 1. A photolog, field notes, and laboratory analytical reports are attached.

Laboratory analytical results indicated that the sidewalls and stockpile of the Cell #1 excavation are below the Reclamation Standard of 600 milligrams per kilogram (mg/kg). Laboratory results also indicate that the base of the Cell #1 excavation is below the Closure Criteria of 10,000 mg/kg with a concentration of 730 mg/kg chloride.

Laboratory analytical results for Cell #2 North indicated that the north, south and west sidewalls were below the Reclamation Standard of 600 mg/kg. However, the east sidewall and stockpile exceeded the standard with concentrations of 670 and 630 mg/kg, respectively. The base of the Cell #2 North excavation exhibited a chloride concentration of 1,100 mg/kg which is below the Closure Criteria. On October 17, 2022, following additional excavation of the east sidewall and thorough mixing of the stockpile, a sample was collected from the extended sidewall and mixed stockpile. Laboratory analytical results report the east sidewall continues to exhibit a chloride concentration exceeding the Reclamation Standard with 630 mg/kg. The Cell #2 North stockpile has decreased to

400 mg/kg chlorides. The final Cell #2 North excavation measured approximately 12 feet by 16 feet with a depth of 4 feet.

Alternative reclamation of the landfarm area is planned as part of the closure activities for the facility with final use as a gravel covered parking area. The cover will be designed to minimize surface water infiltration, sloped to encourage runoff, and maintained to minimize vegetation growth. As such, vadose zone soils presently located within the top four feet of the surface will be buried with the added soil cover, bringing the impacted soils below four feet of the engineered surface. Therefore, it is requested that the Closure Standard be utilized to evaluate the residual chloride impacted soils rather than the Reclamation Standard. As such the chloride concentration of the east wall of the Cell #2 North excavation is below the Closure Criteria of 10,000 mg/kg with 630 mg/kg.

SMA recommends no further action and requests closure of the Incident Number nRM2025448240.

Scope and Limitations

The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation guidance; 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 Heather Woods at (505) 716-2787.

Submitted by:
SOUDER, MILLER & ASSOCIATES

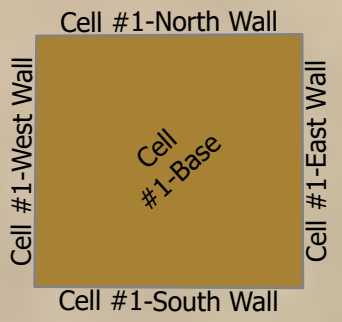
Heather M. Woods

Heather M. Woods, P.G.
Project Geoscientist

Attachments:

Figure 1. Excavation and Sample Location Site Map
Table 1. Summary of Laboratory Analytical Results
Photo Log
Field Notes
Laboratory Reports (*Hall 2208H55 and 2210856*)

Cell #1 Excavation



Scale: 1:110

0 4 8 16 Feet

Cell #2 North Excavation

Scale: 1:151

0 5 10 20 Feet

Legend

- Landfarm Areas
- Excavation Areas
- Agua Moss Facility Area

N

Cell #1 Coordinates:
-108.071689W 36.758375N
Cell #2N Coordinates:
-108.072243W 36.759069N

Excavation and Sample Location Map
Agua Moss Surface Waste Management Facility- Agua Moss, LLC
S: 2 T: 29N R: 12W, San Juan County, New Mexico

Figure 1

C:\Users\ss\Desktop\GIS\something for heather\AguaMoss\AguaMoss.aprx
Date Saved: 11/14/2022

Revisions
By:_____ Date:_____ Descr:_____
By:_____ Date:_____ Descr:_____

Drawn Sarahmay Schlea
Date 11/14/2022
Checked
Approved

SMA
Souder, Miller & Associates
Engineering • Environmental
Geomatics

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

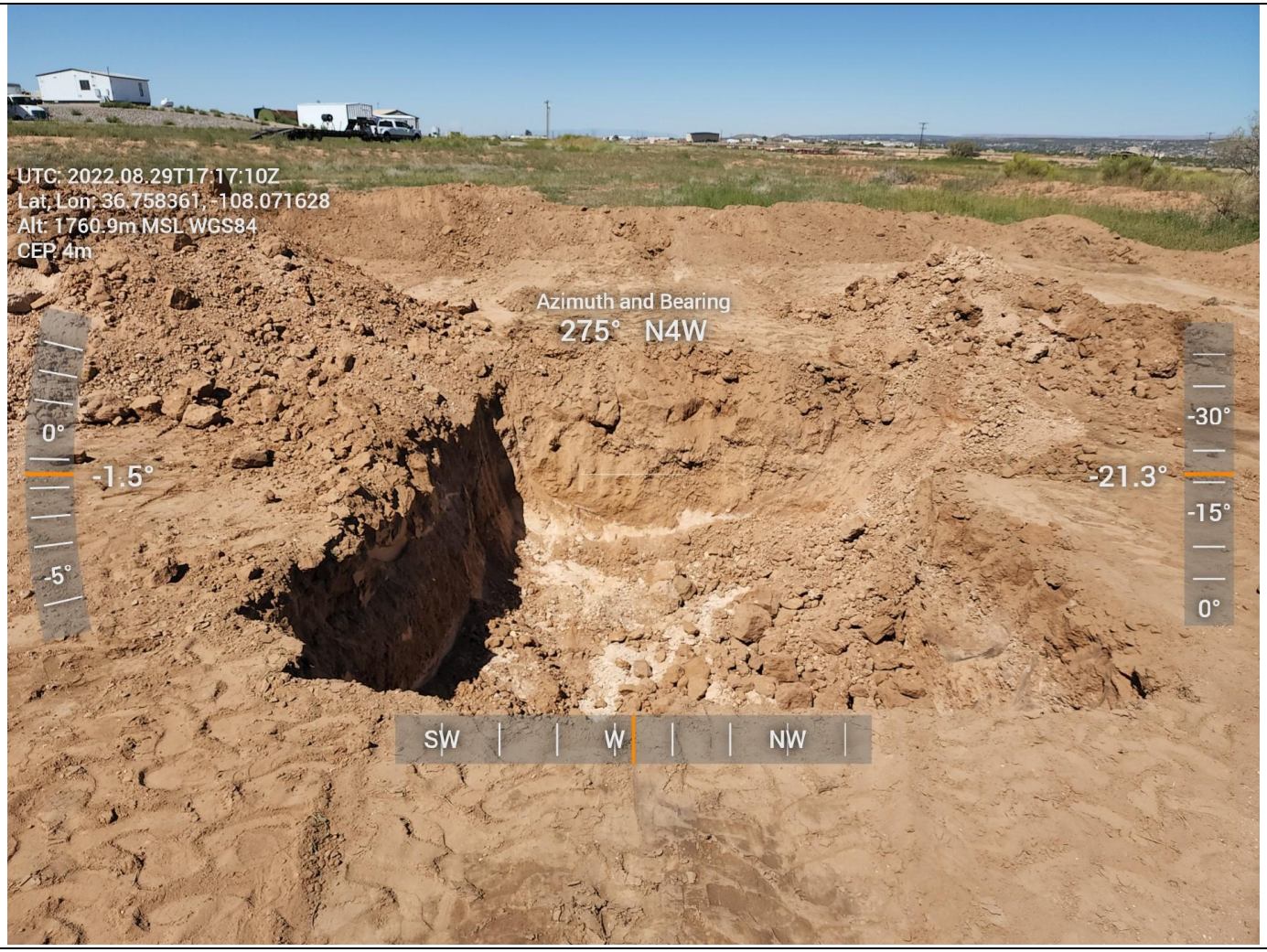
Table 1:
Summary of Laboratory Analytical Results

Agua Moss Surface Waste Management Facility
Vadose Zone Closure

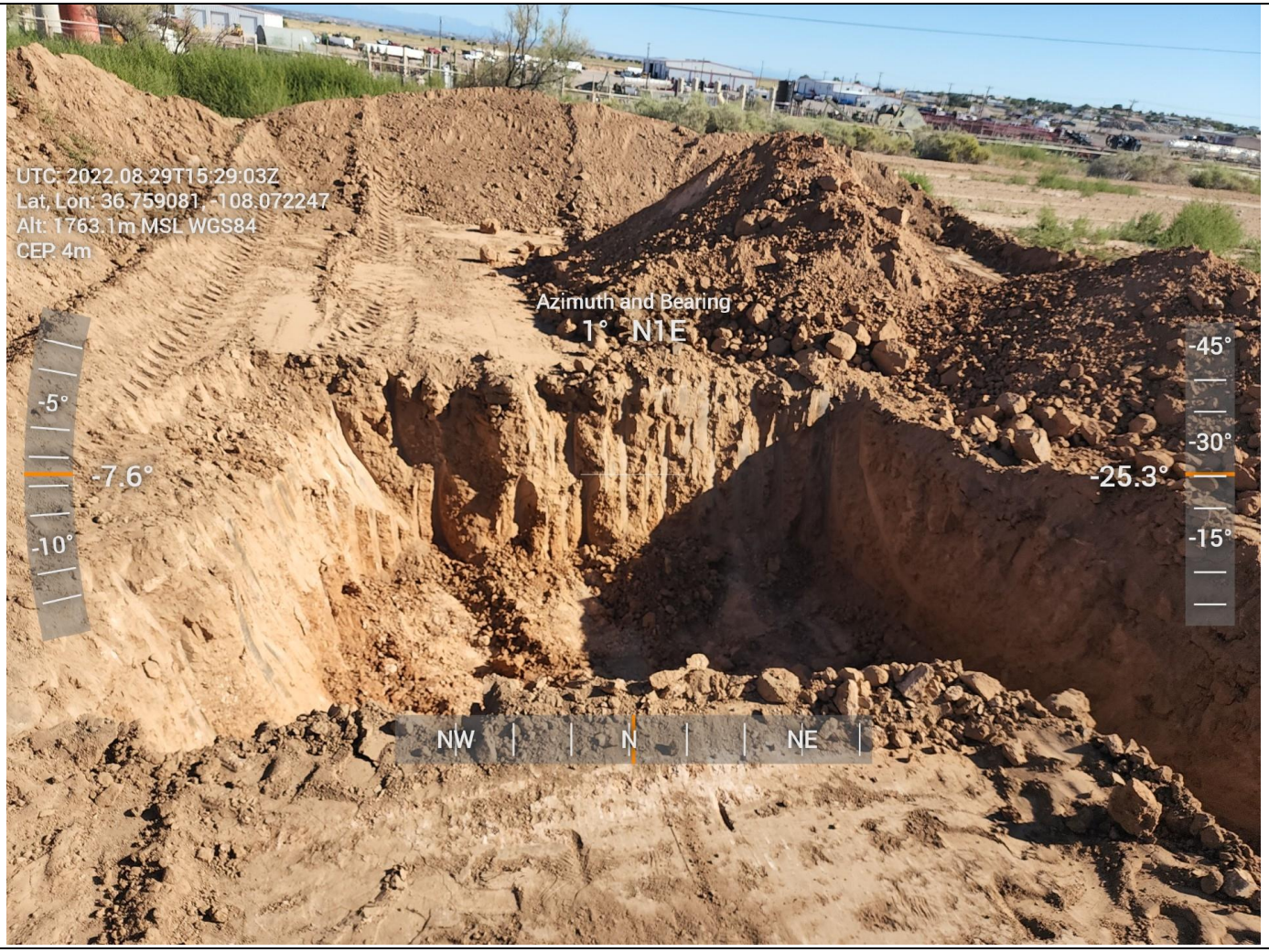
Sample ID	Sample Date	Depth of Sample (feet bgs)	Method 300.0 Chloride mg/kg
NMOCD Closure Criteria (>4 feet)			**10,000**
NMOCD Reclamation Standard (<4 feet bgs)			**600**
Final Excavation Confirmation Samples			
Cell #1 West Wall	8/29/2022	0 to 4	200
Cell #1 South Wall	8/29/2022	0 to 4	120
Cell #1 East Wall	8/29/2022	0 to 4	62
Cell #1 North Wall	8/29/2022	0 to 4	190
Cell # 1 Base	8/29/2022	4	730
Cell #1 Stockpile	8/29/2022	--	280
Cell #2N North Wall	8/29/2022	0 to 4	470
Cell #2N West Wall	8/29/2022	0 to 4	530
Cell # 2N South Wall	8/29/2022	0 to 4	500
Cell #2N Base	8/29/2022	4	1,100
Cell #2N East Wall (2)	10/17/2022	0 to 4	630
Cell #2N Stockpile (2)	10/17/2022	--	400
Removed by Excavation or Resampled Stockpile			
Cell #2N East Wall	8/29/2022	0 to 4	670
Cell #2N Stockpile	8/29/2022	--	630

Notes: NMOCD - New Mexico Oil Conservation Division
bgs - below grade surface
mg/kg - milligram per kilogram
"--" - not applicable or not analyzed

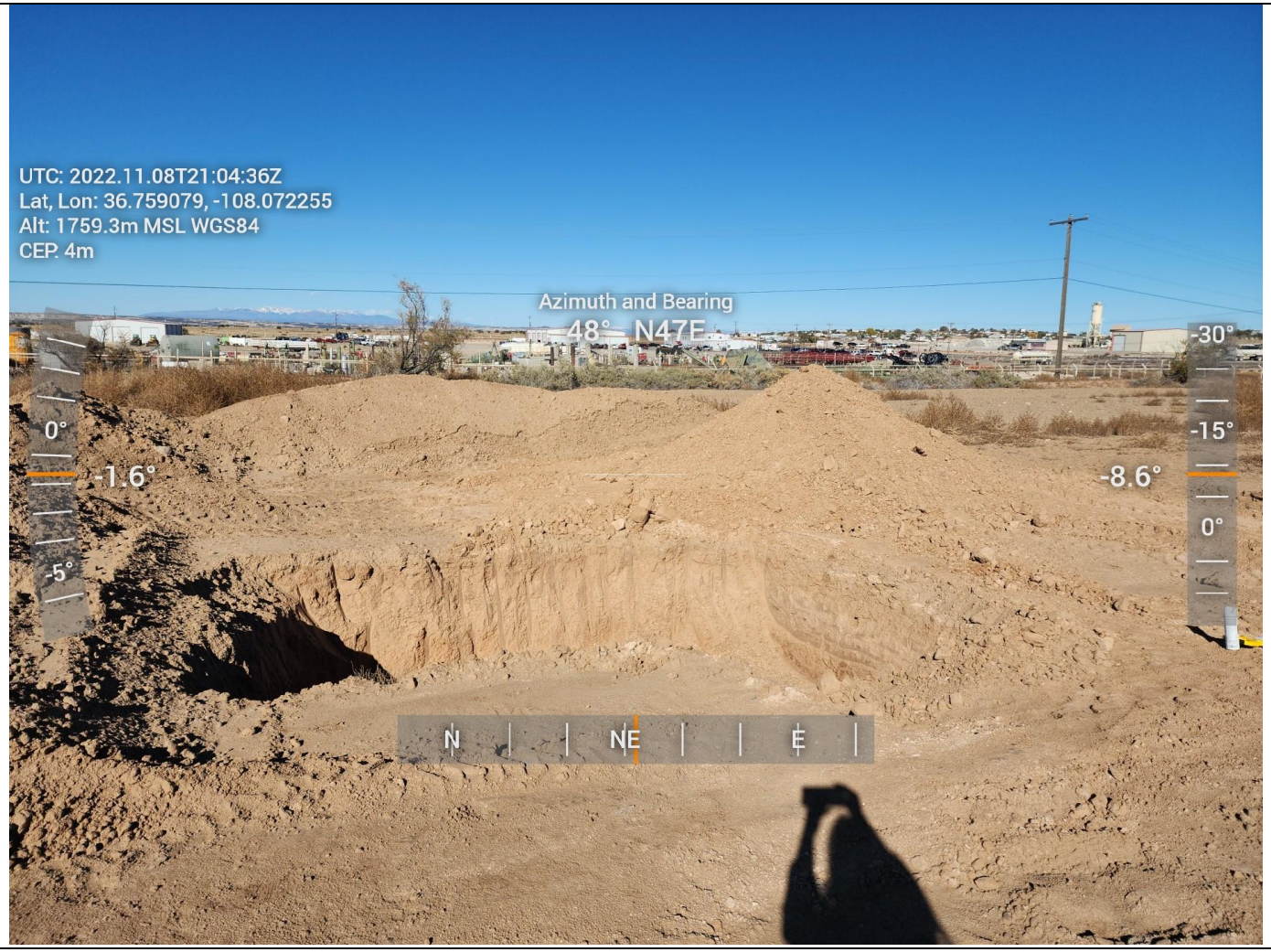
Photograph Log
Agua Moss Vadose Zone Closure Report
Enterprise Field Services

Photograph #1	
Client: Agua Moss LLC	
Site Name: Agua Moss Surface Waste Facility	
Date Photo Taken: August 29, 2022	
Release Location: N36.758376, W108.071689 S2-T29N-R12W San Juan County, New Mexico	
Photo Taken by: Heather Woods	Description: Facing west, view of the Cell #1 excavation.

Photograph Log
Agua Moss Vadose Zone Closure Report
Enterprise Field Services

Photograph #2	
Client: Agua Moss LLC	
Site Name: Agua Moss Surface Waste Facility	
Date Photo Taken: August 29, 2022	
Release Location: N36.758376, W108.071689 S2-T29N-R12W San Juan County, New Mexico	
Photo Taken by: Heather Woods	Description: Facing north, view of the Cell #2 North excavation on August 29. 2022.

Photograph Log
Agua Moss Vadose Zone Closure Report
Enterprise Field Services

Photograph #3	
Client: Agua Moss LLC	
Site Name: Agua Moss Surface Waste Facility	
Date Photo Taken: November 11, 2022	
Release Location: N36.758376, W108.071689 S2-T29N-R12W San Juan County, New Mexico	
Photo Taken by: Heather Woods	Description: Facing northeast, view of the Cell #2 North excavation following additional excavation on October 17. 2022.

SMA Field Screening

Location Name: Agua Moss Sunco Landfarm

Date: 8/29/22

Sample Name:	Collection Time:	EC (mS)	Temp (°C)	PID Reading /PF	Soil Color	Primary Soil Type	Moisture Level	Other Remarks/Notes:
Cell #2N - East wall	0914	1.18	22.1		Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
Cell #2N - North wall	0916	0.93	24.1		Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
Cell #2N - West wall	0919	1.11	22.6		Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
Cell #2N - South Wall	0923	1.45	22.7		Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
Cell #2N - Base	0927	2.28	22.7		Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
Cell #2N - Stockpile	0934				Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
Cell #1 - West wall	1057	0.68	26.9		Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
Cell #1 - South Wall	1100	0.50	26.7		Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
Cell #1 - East wall	1104	0.46	26.2		Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	

ASMA Field Screening

Location Name: Agua Moss Sunco Landfarm

Date: 8/29/22

Sample Name:	*Collection Time:*	*EC (mS)*	*Temp (°C)*	*PID Reading /PF*	*Soil Color*	*Primary Soil Type*	*Moisture Level*	*Other Remarks/Notes:*
Cell #1 - North Wall	1108	0.81	26.6		Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
Cell #1 - Base	1112	1.30	26.8		Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
Cell #1 - Stockpile	1116				Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
					Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
					Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
					Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
					Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
					Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
					Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	

Field Screening

Location Name: Agua Moss Sunco Landfarm

Date: 10/17/2022

Sample Name:	Collection Time:	EC (mS)	Temp (°C)	PID Reading /PF	Soil Color	Primary Soil Type	Moisture Level	Other Remarks/Notes:
Cell #2N ~~West~~ East Wall (2)	1015	1.06	12.9		Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
Stockpile Cell #2N (2)	1018	0.93	13.0		Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
					Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
					Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
					Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
					Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
					Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
					Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
					Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

September 12, 2022

Heather Woods

Souder, Miller and Associates
401 W. Broadway
Farmington, NM 87401
TEL: (505) 325-5667
FAX: (505) 327-1496

RE: Agua Moss Sunco Landfarm OrderNo.: 2208H55

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 12 sample(s) on 8/30/2022 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order: **2208H55**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates **Lab Order:** 2208H55
Project: Agua Moss Sunco Landfarm

Lab ID: 2208H55-001 **Collection Date:** 8/29/2022 10:57:00 AM
Client Sample ID: Cell #1 - West Wall **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	200	60		mg/Kg	20	9/2/2022 10:10:41 PM	69955

Lab ID: 2208H55-002 **Collection Date:** 8/29/2022 11:00:00 AM
Client Sample ID: Cell #1 - South Wall **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	120	60		mg/Kg	20	9/2/2022 10:23:02 PM	69955

Lab ID: 2208H55-003 **Collection Date:** 8/29/2022 11:04:00 AM
Client Sample ID: Cell #1 - East Wall **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	62	59		mg/Kg	20	9/2/2022 10:35:22 PM	69955

Lab ID: 2208H55-004 **Collection Date:** 8/29/2022 11:08:00 AM
Client Sample ID: Cell #1 - North Wall **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	190	60		mg/Kg	20	9/2/2022 5:03:48 PM	69956

Lab ID: 2208H55-005 **Collection Date:** 8/29/2022 11:12:00 AM
Client Sample ID: Cell #1 - Base **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	730	60		mg/Kg	20	9/2/2022 5:16:12 PM	69956

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 range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order: **2208H55**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates **Lab Order:** 2208H55
Project: Agua Moss Sunco Landfarm

Lab ID: 2208H55-006 **Collection Date:** 8/29/2022 11:16:00 AM
Client Sample ID: Cell #1 - Stockpile **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	280	60		mg/Kg	20	9/2/2022 6:43:01 PM	69956

Lab ID: 2208H55-007 **Collection Date:** 8/29/2022 9:14:00 AM
Client Sample ID: Cell #2N - East Wall **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	670	59		mg/Kg	20	9/2/2022 6:55:26 PM	69956

Lab ID: 2208H55-008 **Collection Date:** 8/29/2022 9:16:00 AM
Client Sample ID: Cell #2N - North Wall **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	470	60		mg/Kg	20	9/2/2022 7:07:50 PM	69956

Lab ID: 2208H55-009 **Collection Date:** 8/29/2022 9:19:00 AM
Client Sample ID: Cell #2N - West Wall **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	530	60		mg/Kg	20	9/2/2022 7:20:14 PM	69956

Lab ID: 2208H55-010 **Collection Date:** 8/29/2022 9:23:00 AM
Client Sample ID: Cell #2N - South Wall **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	500	60		mg/Kg	20	9/2/2022 7:32:38 PM	69956

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 range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order: **2208H55**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates **Lab Order:** 2208H55
Project: Agua Moss Sunco Landfarm

Lab ID: 2208H55-011 **Collection Date:** 8/29/2022 9:27:00 AM
Client Sample ID: Cell #2N - Base **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	1100	60		mg/Kg	20	9/2/2022 7:45:03 PM	69956

Lab ID: 2208H55-012 **Collection Date:** 8/29/2022 9:34:00 AM
Client Sample ID: Cell #2N - Stockpile **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	630	59		mg/Kg	20	9/2/2022 8:22:16 PM	69956

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 range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208H55**

12-Sep-22

Client: Souder, Miller and Associates

Project: Agua Moss Sunco Landfarm

Sample ID: **MB-69955**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **69955**	RunNo: **90777**							
Prep Date: **9/2/2022**	Analysis Date: **9/2/2022**	SeqNo: **3245125**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-69955**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **69955**	RunNo: **90777**							
Prep Date: **9/2/2022**	Analysis Date: **9/2/2022**	SeqNo: **3245126**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.7	90	110			

Sample ID: **MB-69956**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **69956**	RunNo: **90776**							
Prep Date: **9/2/2022**	Analysis Date: **9/2/2022**	SeqNo: **3247738**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-69956**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **69956**	RunNo: **90776**							
Prep Date: **9/2/2022**	Analysis Date: **9/2/2022**	SeqNo: **3247739**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.6	90	110			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Client Name: **Souder, Miller and Associates** Work Order Number: **2208H55** RcptNo: 1

Received By: **Juan Rojas** **8/30/2022 7:30:00 AM**

Completed By: **Cheyenne Cason** **8/30/2022 8:24:29 AM**

Reviewed By: KPA 8.30.22

Chain of Custody

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

# of preserved bottles checked for pH: (<2 or >12 unless noted)

Adjusted?

Checked by: JN 8/30/22

Special Handling (if applicable)

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

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.1	Good	Not Present			

Chain-of-Custody Record

Client: Souder, Miller & Associates

Mailing Address: 201 W. Broadway
Farmington, NM 87401

Phone #: (505) 716-2787

email or Fax#: Heather.Woods@Soudermiller.com

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name:
Agua Moss Sunco Landfarm

Project #:

Project Manager:
Heather Woods

Sampler: Heather Woods
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 4.4-0=4.4 (°C)

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www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2208155	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
8/29/22	1057	S	Cell #1 - West Wall	(1) 4oz Glass	Non	001							X			
8/29/22	1100	S	Cell #1 - South wall	(1) 4oz Glass	Non	002							X			
8/29/22	1104	S	Cell #1 - East wall	(1) 4oz Glass	Non	003							X			
8/29/22	1108	S	Cell #1 - North Wall	(1) 4oz Glass	Non	004							X			
8/29/22	1112	S	Cell #1 - Base	(1) 4oz Glass	Non	005							X			
8/29/22	1116	S	Cell #1 - Stockpile	(1) 4oz Glass	Non	006							X			
8/29/22	0914	S	Cell #2N - East Wall	(1) 4oz Glass	Non	007							X			
8/29/22	0916	S	Cell #2N - North Wall	(1) 4oz Glass	Non	008							X			
8/29/22	0919	S	Cell #2N - West wall	(1) 4oz Glass	Non	009							X			
8/29/22	0923	S	Cell #2N - South wall	(1) 4oz Glass	Non	010							X			
8/29/22	0927	S	Cell #2N - Base	(1) 4oz Glass	Non	011							X			
8/29/22	0934	S	Cell #2N - Stockpile	(1) 4oz Glass	Non	012							X			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/29/22	1741	Heath Miller			8/29/22	1741
8/29/22	1820	Christine Walters		Courier	8/30/22	7:30

Remarks:
Direct Bill to Agua Moss

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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October 27, 2022

Heather Woods
Souder, Miller and Associates
401 W. Broadway
Farmington, NM 87401
TEL: (505) 325-5667
FAX: (505) 327-1496

RE: Agua Moss Sunco Landfarm OrderNo.: 2210856

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 2 sample(s) on 10/18/2022 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2210856**
Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Project: Agua Moss Sunco Landfarm
Lab ID: 2210856-001 **Matrix:** SOIL

Client Sample ID: Cell #2N-~~West~~ East #00 Wall (2)
Collection Date: 10/17/2022 10:15:00 AM
Received Date: 10/18/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	630	60		mg/Kg	20	10/23/2022 5:46:44 PM	70996

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

Qualifiers:

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

Analytical Report
Lab Order **2210856**
Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Project: Agua Moss Sunco Landfarm
Lab ID: 2210856-002 **Matrix:** SOIL

Client Sample ID: Cell #2N-Stockpile (2)
Collection Date: 10/17/2022 10:18:00 AM
Received Date: 10/18/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	400	60		mg/Kg	20	10/24/2022 10:11:01 PM	71033

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210856**
27-Oct-22

Client: Souder, Miller and Associates
Project: Agua Moss Sunco Landfarm

Sample ID: **MB-70996**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **70996**	RunNo: **92023**							
Prep Date: **10/21/2022**	Analysis Date: **10/23/2022**	SeqNo: **3301998**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-70996**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **70996**	RunNo: **92023**							
Prep Date: **10/21/2022**	Analysis Date: **10/23/2022**	SeqNo: **3301999**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.0	90	110			

Sample ID: **MB-71033**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **71033**	RunNo: **92046**							
Prep Date: **10/24/2022**	Analysis Date: **10/24/2022**	SeqNo: **3303106**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71033**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **71033**	RunNo: **92046**							
Prep Date: **10/24/2022**	Analysis Date: **10/24/2022**	SeqNo: **3303107**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.2	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical 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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Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **Souder, Miller and Associates** Work Order Number: **2210856** RcptNo: 1

Received By: **Juan Rojas** **10/18/2022 7:10:00 AM**

Completed By: **Cheyenne Cason** **10/18/2022 10:16:57 AM**

Reviewed By: JR 10/18/22

Chain of Custody

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

# of preserved bottles checked for pH: (<2 or >12 unless noted)

Adjusted?

Checked by: KPG 10.18.22

Special Handling (if applicable)

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

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.5	Good	Not Present			

Chain-of-Custody Record

Client: Souder, Miller & Associates

Mailing Address: 401 W. Broadway
Farmington, NM 87401

Phone #: (505) 716-2787

email or Fax#: Heather.Woods@soudermiller.com

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Agua Moss Sunco Landfarm

Project #:

Project Manager: Heather Woods

Sampler: Heather Woods

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 0.4+0.1=0.5 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
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Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4 300.0	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
10/17/22	1015	S	Cell #2N-East HW Wall (2)	(1) 4oz Glass	Non	001							X			
10/17/22	1018	S	Cell #2N-Stockpile (2)	(1) 4oz Glass	Non	002							X			

Analysis Request

Date	Time	Relinquished by:	Received by:	Via:	Date Time
10/17/22	1640	Heather M. Woods	Chris Walt		10/17/22 1640
10/17/22	1813	Christ Walls		Courier	10/18/22 7:10

Remarks: Direct Bill to Agua Moss

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

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

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

CONDITIONS

Action 159240

CONDITIONS

Operator: AGUA MOSS, LLC P.O. Box 600 Farmington, NM 87499	OGRID: 247130
	Action Number: 159240
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	12/8/2022