Souder, Miller & Associates ♦ 401 West Broadway ♦ Farmington, NM 87401
(505) 325-7535 ♦ (800) 519-0098 ♦ fax (505) 326-0045

April 27, 2023 SMA Project No. 5129666

Ms. Philana Thompson
Agua Moss LLC
P.O. Box 600
Farmington, NM 87499
pthompson@merrion.bz
(505) 324-5300

RE: Sunco Disposal #1 Injection Water Monitoring – 1st Quarter 2023

Dear Ms. Thompson:

This report summarizes sample collection, field screening, and laboratory analysis of the injection water at the Agua Moss LLC Sunco Disposal #1 well for the 1st Quarter 2023. Injection water of the Class I/II Sunco Disposal #1 well is assessed on a quarterly basis in accordance with Paragraph (1) of Subsection B of 20.6.2.5207 New Mexico Administrative Code (NMAC).

Field Activities

Souder, Miller & Associates (SMA) personnel collected one injection water sample, S-25, from the process line inside the pump building on March 23, 2023. The injection water was discharged directly from the process line into laboratory sample containers and a clean container for field screening.

Sample Collection and Field Screening Procedures

The injection water sample (S-25) was field screened for time sensitive parameters including pH, temperature, reduction potential, specific conductance, and total dissolved solids. Field screening was conducted utilizing a handheld water quality meter calibrated on the day of use with laboratory-grade standards.

The sampled injection water was placed into laboratory supplied containers, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico.

Field Screening and Laboratory Analytical Results

The field screening and laboratory analytical results are summarized in the attached Table 1.

QA/QC Considerations

Field measurements for time sensitive parameters including pH, temperature, reduction potential, and specific conductance more accurately reflect the characteristics of the injection water than laboratory results for these parameters due to their rapidly changing nature when exposed to environmental factors. The hold time qualifier is indicated on the laboratory report for pH as the hold time of 15 minutes from collection was exceeded during transport prior to analysis. Similarly, the hold time was exceeded for corrosivity by pH, oxidation reduction potential (ORP), and total dissolved solids (TDS).

A dilution due to matrix qualifier is indicated on the laboratory report for total dissolved solids and chlordane.

Data Evaluation

Laboratory analytical and field screening results report all applicable constituent concentrations below the maximum toxicity characteristic concentrations per 40 Code of Federal Regulation (CFR) 261.24 Table 1 except for benzene. The Sunco Disposal #1 accepts both Class I non-hazardous fluid and Class II exempt oil and gas fluids. The Sunco Disposal #1 therefore occasionally receives Class II fluids with common oil and association constituents, such as benzene, at concentrations in excess of the toxicity characteristic concentrations.

Closure and Limitations

This report is prepared for the exclusive use of Agua Moss LLC and is subject to the terms, conditions, and limitations stated in SMA's Master Professional Services Agreement with Agua Moss LLC. All work has been performed in accordance with generally accepted professional environmental consulting practices. No other warranty is expressed or implied.

Souder, Miller & Associates appreciates the opportunity to provide services to Agua Moss LLC. If you have any questions, please contact me at (505) 325-7535.

Sincerely,

MILLER ENGINEERS, INC. d/b/a
SOUDER, MILLER & ASSOCIATES

Heather M. Woods

Heather M. Woods, P.G.
Project Geoscientist
Heather.Woods@soudermiller.com

Attachments:
Table 1. Summary of Field Screening and Laboratory Analytical Results
Laboratory Analytical Reports (Hall 2203C54)

Table 1:
Summary of Field Screening and Laboratory Analytical Results

AGUA MOSS LLC
SUNCO DISPOSAL #1
1ST QUARTER 2023 MONITORING

Sample ID	S-25			
Collection Date	3/23/2023			
Analyte	Field Results	Laboratory Results	Units	Toxicity Characteristic Concentrations
Arsenic	--	<5.0	mg/L	5.0 mg/L
Barium	--	<100	mg/L	100.0 mg/L
Benzene	--	3.5	mg/L	0.5 mg/L
Cadmium	--	<1.0	mg/L	1 mg/L
Carbon tertachloride	--	<0.50	mg/L	0.5 mg/L
Chlordane	--	<0.30 D	mg/L	0.03 mg/L
Chlorobenzene	--	<100	mg/L	100.0 mg/L
Chloroform	--	<6.0	mg/L	6.0 mg/L
Chromium	--	<5.0	mg/L	5.0 mg/L
o-Cresol	--	--	mg/L	200.0 mg/L
m+p-Cresol	--	--	mg/L	200.0 mg/L
Cresol	--	<200	mg/L	200.0 mg/L
1,4-Dichlorobenzene	--	<7.5	mg/L	7.5 mg/L
1,2-Dichloroethane	--	<0.50	mg/L	0.5 mg/L
1,1-Dichloroethylene	--	<0.70	mg/L	0.7 mg/L
2,4-Dinitrotoluene	--	<0.13	mg/L	0.13 mg/L
Hexachlorobenzene	--	<0.13	mg/L	0.13 mg/L
Hexachlorobutadiene	--	<0.50	mg/L	0.5 mg/L
Hexachloroethane	--	<3.0	mg/L	3.0 mg/L
Lead	--	<5.0	mg/L	5.0 mg/L
Mercury	--	<0.020	mg/L	0.2 mg/L
Methyl ethyl ketone	--	<200	mg/L	200.0 mg/L
Nitrobenzene	--	<2.0	mg/L	2.0 mg/L
Pentachlorophenol	--	<100	mg/L	100.0 mg/L
Pyridine	--	<5.0	mg/L	5.0 mg/L
Selenium	--	<1.0	mg/L	1.0 mg/L
Silver	--	<5.0	mg/L	5.0 mg/L
Tetrachloroethylene	--	<0.70	mg/L	0.7 mg/L
Trichloroethylene	--	<0.50	mg/L	0.5 mg/L
2,4,5-Trichlorophenol	--	<400	mg/L	400.0 mg/L
2,4,6-Trichlorophenol	--	<2.0	mg/L	2.0 mg/L
Vinyl chloride	--	<0.20	mg/L	0.2 mg/L
Reactive sulfide	--	<0.0500	mg/L	
Reactive cyanide	--	<0.00500	mg/L	
Corrosivity by pH	--	7.23 H	s.u.	
Ignitability	--	DNF at 170	deg F	
Specific conductance	37,200	44,000	µmhos/cm	
Specific gravity	--	1.016		
ORP	87.2	-45.5 H	mV	
Fluoride	--	<2.0	mg/L	
Calcium	--	160	mg/L	
Potassium	--	60	mg/L	
Magnesium	--	50	mg/L	
Bicarbonate (as CaCO3)	--	497.5	mg/L Ca	
Carbonate (as CaCO3)	--	<2.000	mg/L Ca	
Chloride	--	13,000	mg/L	
Sulfate	--	160	mg/L	
Total dissolved solids	21,200	23,800 HD	mg/L	
pH	7.23	7.26 H		
Bromide	--	72	mg/L	
Temperature	20.3	--	deg C	

Notes: ORP - oxidation reduction potential
mg/L - milligrams per liter
s.u. - standard units
µmhos/cm - micromhos per centimeter
deg F - degrees Fahrenheit
deg C - degrees Celsius
mV - millivolts
DNF - does not flash

Qualifiers: D - sample diluted due to matrix
H - hold time for preparation or analysis exceeded
S - laboratory control spike recovery low

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

April 13, 2023

Heather Woods

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

RE: Agua Moss Sunco 1 OrderNo.: 2303C54

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/24/2023 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 **2303C54**
Date Reported: **4/13/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: S-25 (03/23/23)
Project: Agua Moss Sunco 1
Collection Date: 3/23/2023 3:40:00 PM
Lab ID: 2303C54-001 **Matrix:** AQUEOUS **Received Date:** 3/24/2023 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8081: PESTICIDES TCLP						Analyst:	**JME**
Chlordane	ND	0.30	D	mg/L	1	3/29/2023 12:36:49 PM	73955
Surr: Decachlorobiphenyl	74.8	40.9-111	D	%Rec	1	3/29/2023 12:36:49 PM	73955
Surr: Tetrachloro-m-xylene	72.5	15-107	D	%Rec	1	3/29/2023 12:36:49 PM	73955
EPA METHOD 8270C TCLP						Analyst:	**DAM**
2-Methylphenol	ND	200		mg/L	1	4/4/2023 8:31:38 PM	73935
3+4-Methylphenol	ND	200		mg/L	1	4/4/2023 8:31:38 PM	73935
2,4-Dinitrotoluene	ND	0.13		mg/L	1	4/4/2023 8:31:38 PM	73935
Hexachlorobenzene	ND	0.13		mg/L	1	4/4/2023 8:31:38 PM	73935
Hexachlorobutadiene	ND	0.50		mg/L	1	4/4/2023 8:31:38 PM	73935
Hexachloroethane	ND	3.0		mg/L	1	4/4/2023 8:31:38 PM	73935
Nitrobenzene	ND	2.0		mg/L	1	4/4/2023 8:31:38 PM	73935
Pentachlorophenol	ND	100		mg/L	1	4/4/2023 8:31:38 PM	73935
Pyridine	ND	5.0		mg/L	1	4/4/2023 8:31:38 PM	73935
2,4,5-Trichlorophenol	ND	400		mg/L	1	4/4/2023 8:31:38 PM	73935
2,4,6-Trichlorophenol	ND	2.0		mg/L	1	4/4/2023 8:31:38 PM	73935
Cresols, Total	ND	200		mg/L	1	4/4/2023 8:31:38 PM	73935
Surr: 2-Fluorophenol	47.0	20.8-71.9		%Rec	1	4/4/2023 8:31:38 PM	73935
Surr: Phenol-d5	42.8	16.2-54.5		%Rec	1	4/4/2023 8:31:38 PM	73935
Surr: 2,4,6-Tribromophenol	71.3	18.8-117		%Rec	1	4/4/2023 8:31:38 PM	73935
Surr: Nitrobenzene-d5	65.2	33-85.9		%Rec	1	4/4/2023 8:31:38 PM	73935
Surr: 2-Fluorobiphenyl	67.7	26.3-79.6		%Rec	1	4/4/2023 8:31:38 PM	73935
Surr: 4-Terphenyl-d14	84.1	53.9-124		%Rec	1	4/4/2023 8:31:38 PM	73935
SPECIFIC GRAVITY						Analyst:	**CAS**
Specific Gravity	1.016	0			1	4/12/2023 10:26:00 AM	R95945
EPA METHOD 300.0: ANIONS						Analyst:	**JMT**
Fluoride	ND	2.0		mg/L	20	4/7/2023 11:46:05 AM	R95884
Chloride	13000	1000	*	mg/L	2E+	4/4/2023 12:27:02 PM	R95796
Bromide	72	2.0		mg/L	20	3/24/2023 11:16:49 PM	A95555
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	3/24/2023 11:02:41 PM	A95555
Sulfate	160	2.5		mg/L	5	3/24/2023 11:02:41 PM	A95555
Nitrate+Nitrite as N	ND	10		mg/L	50	4/7/2023 11:58:56 AM	R95884
SM2510B: SPECIFIC CONDUCTANCE						Analyst:	**DML**
Conductivity	44000	100		µmhos/c	10	4/5/2023 4:24:23 PM	R95829
SM2320B: ALKALINITY						Analyst:	**CAS**
Bicarbonate (As CaCO3)	497.5	20.00		mg/L Ca	1	3/28/2023 5:30:33 PM	R95630
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	3/28/2023 5:30:33 PM	R95630
Total Alkalinity (as CaCO3)	497.5	20.00		mg/L Ca	1	3/28/2023 5:30:33 PM	R95630

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 **2303C54**
Date Reported: **4/13/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: S-25 (03/23/23)
Project: Agua Moss Sunco 1
Collection Date: 3/23/2023 3:40:00 PM
Lab ID: 2303C54-001 **Matrix:** AQUEOUS **Received Date:** 3/24/2023 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**RBC**
Total Dissolved Solids	23800	1000	*HD	mg/L	1	4/3/2023 3:06:00 PM	74044
SM4500-H+B / 9040C: PH						Analyst:	**CAS**
pH	7.26		H	pH units	1	3/28/2023 5:30:33 PM	A95630
EPA METHOD 7470A: MERCURY						Analyst:	**tem**
Mercury	ND	0.020		mg/L	1	3/28/2023 4:58:55 PM	73959
EPA METHOD 6010B: DISSOLVED METALS						Analyst:	**JRR**
Calcium	160	10		mg/L	10	3/29/2023 1:53:43 PM	A95671
Magnesium	50	1.0		mg/L	1	3/29/2023 1:49:47 PM	A95671
Potassium	60	1.0		mg/L	1	3/29/2023 1:49:47 PM	A95671
Sodium	9800	200		mg/L	200	4/6/2023 3:40:08 PM	A95848
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst:	**JRR**
Arsenic	ND	5.0		mg/L	5	3/29/2023 12:42:38 PM	73985
Barium	ND	100		mg/L	5	3/29/2023 12:42:38 PM	73985
Cadmium	ND	1.0		mg/L	5	3/29/2023 12:42:38 PM	73985
Chromium	ND	5.0		mg/L	5	3/29/2023 12:42:38 PM	73985
Lead	ND	5.0		mg/L	5	3/29/2023 12:42:38 PM	73985
Selenium	ND	1.0		mg/L	5	3/29/2023 12:42:38 PM	73985
Silver	ND	5.0		mg/L	5	3/29/2023 12:42:38 PM	73985
TCLP VOLATILES BY 8260B						Analyst:	**JR**
Benzene	3.5	0.50		mg/L	200	3/30/2023 6:49:28 PM	T95684
1,2-Dichloroethane (EDC)	ND	0.50		mg/L	200	3/30/2023 6:49:28 PM	T95684
2-Butanone	ND	200		mg/L	200	3/30/2023 6:49:28 PM	T95684
Carbon Tetrachloride	ND	0.50		mg/L	200	3/30/2023 6:49:28 PM	T95684
Chloroform	ND	6.0		mg/L	200	3/30/2023 6:49:28 PM	T95684
1,4-Dichlorobenzene	ND	7.5		mg/L	200	3/30/2023 6:49:28 PM	T95684
1,1-Dichloroethene	ND	0.70		mg/L	200	3/30/2023 6:49:28 PM	T95684
Tetrachloroethene (PCE)	ND	0.70		mg/L	200	3/30/2023 6:49:28 PM	T95684
Trichloroethene (TCE)	ND	0.50		mg/L	200	3/30/2023 6:49:28 PM	T95684
Vinyl chloride	ND	0.20		mg/L	200	3/30/2023 6:49:28 PM	T95684
Chlorobenzene	ND	100		mg/L	200	3/30/2023 6:49:28 PM	T95684
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	200	3/30/2023 6:49:28 PM	T95684
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	200	3/30/2023 6:49:28 PM	T95684
Surr: Dibromofluoromethane	106	70-130		%Rec	200	3/30/2023 6:49:28 PM	T95684
Surr: Toluene-d8	100	70-130		%Rec	200	3/30/2023 6:49:28 PM	T95684

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.		

Pace Analytical®

ANALYTICAL REPORT

March 31, 2023

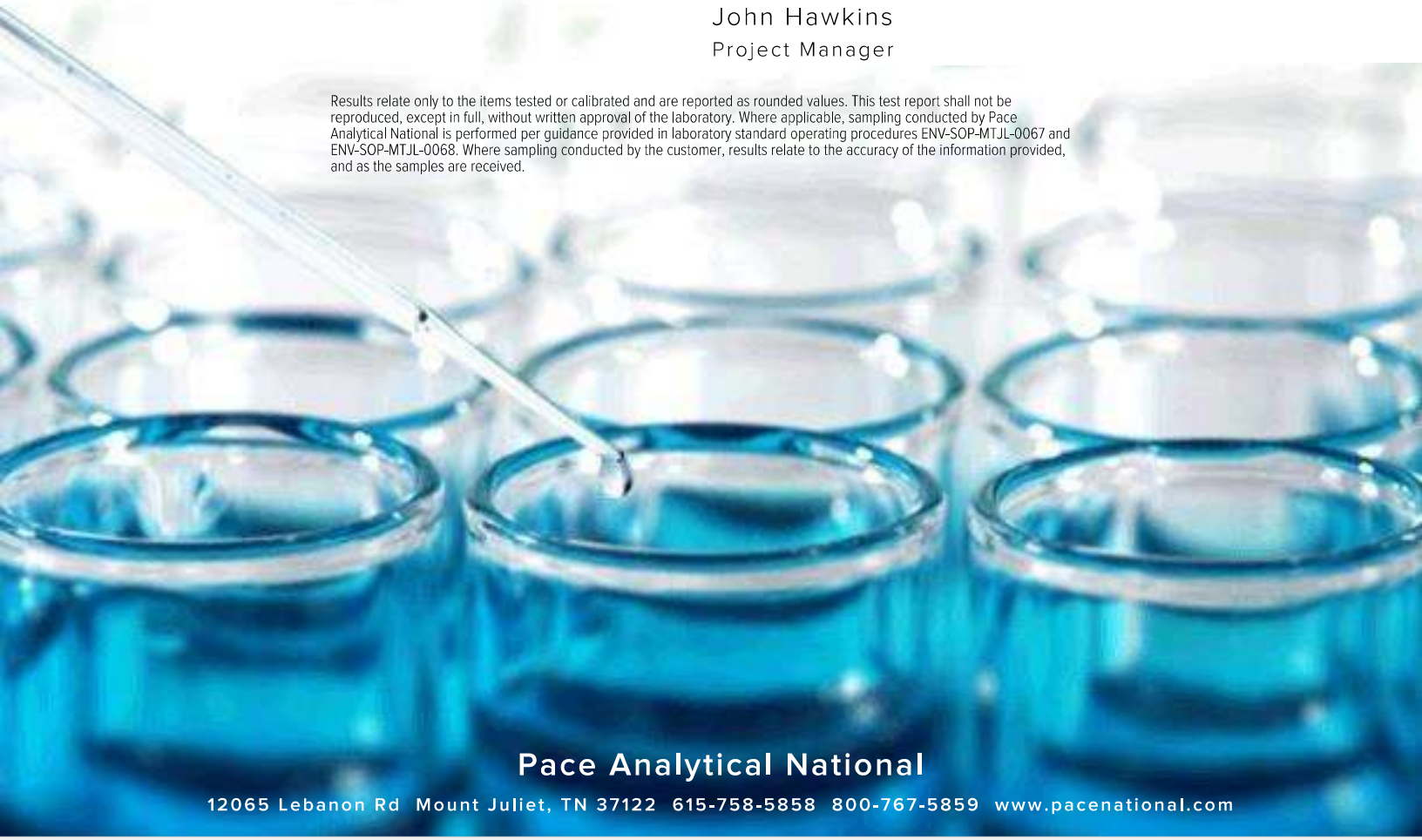
Hall Environmental Analysis Laboratory

Sample Delivery Group:	L1599099
Samples Received:	03/28/2023
Project Number:	
Description:	

Report To: Andy Freeman
4901 Hawkins NE
Albuquerque, NM 87109

Entire Report Reviewed By: John V Hawkins

John Hawkins
Project Manager



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

SAMPLE SUMMARY

	Collected by	Collected date/time	Received date/time
2303C54-001F S-25 (03/23/23) L1599099-01 GW		03/23/23 15:40	03/28/23 09:20

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2580	WG2033023	1	03/31/23 15:17	03/31/23 15:17	NTG	Mt. Juliet, TN
Wet Chemistry by Method 4500 CN E-2016	WG2032051	1	03/30/23 17:34	03/31/23 13:18	UNP	Mt. Juliet, TN
Wet Chemistry by Method 4500 S2 D-2011	WG2032732	1	03/29/23 22:18	03/29/23 22:18	JAR	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2032166	1	03/31/23 12:31	03/31/23 12:31	DB	Mt. Juliet, TN
Wet Chemistry by Method D93/1010A	WG2032347	1	03/30/23 01:53	03/30/23 01:53	TQP	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

John Hawkins
Project Manager

Project Narrative

All Reactive Cyanide results reported in the attached report were determined as totals using method 4500 CN E-2016.
All Reactive Sulfide results reported in the attached report were determined as totals using method 4500 S2 D-2011.

Wet Chemistry by Method 2580

Analyte	Result mV	Qualifier	Dilution	Analysis date / time	Batch
ORP	-45.5	T8	1	03/31/2023 15:17	WG2033023

Wet Chemistry by Method 4500 CN E-2016

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Reactive Cyanide	ND		0.00500	1	03/31/2023 13:18	WG2032051

Wet Chemistry by Method 4500 S2 D-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Reactive Sulfide	ND		0.0500	1	03/29/2023 22:18	WG2032732

Wet Chemistry by Method 9040C

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.23	T8	1	03/31/2023 12:31	WG2032166

Sample Narrative:

L1599099-01 WG2032166: 7.23 at 19.7C

Wet Chemistry by Method D93/1010A

Analyte	Result deg F	Qualifier	Dilution	Analysis date / time	Batch
Flashpoint	DNF at 170		1	03/30/2023 01:53	WG2032347

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

L1599099-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1599099-01 03/31/23 15:17 • (DUP) R3907959-3 03/31/23 15:17

	Original Result	DUP Result	Dilution	DUP Diff	DUP Qualifier	DUP Diff Limits
Analyte	mV	mV		mV		mV
ORP	-45.5	-43.1	1	0.000		20

L1599126-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1599126-01 03/31/23 15:17 • (DUP) R3907959-4 03/31/23 15:17

	Original Result	DUP Result	Dilution	DUP Diff	DUP Qualifier	DUP Diff Limits
Analyte	mV	mV		mV		mV
ORP	480	480	1	0.400		20

L1599126-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1599126-02 03/31/23 15:17 • (DUP) R3907959-5 03/31/23 15:17

	Original Result	DUP Result	Dilution	DUP Diff	DUP Qualifier	DUP Diff Limits
Analyte	mV	mV		mV		mV
ORP	462	462	1	0.400		20

L1599126-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1599126-03 03/31/23 15:17 • (DUP) R3907959-6 03/31/23 15:17

	Original Result	DUP Result	Dilution	DUP Diff	DUP Qualifier	DUP Diff Limits
Analyte	mV	mV		mV		mV
ORP	484	485	1	0.100		20

L1599126-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1599126-04 03/31/23 15:17 • (DUP) R3907959-7 03/31/23 15:17

	Original Result	DUP Result	Dilution	DUP Diff	DUP Qualifier	DUP Diff Limits
Analyte	mV	mV		mV		mV
ORP	362	361	1	0.600		20

L1599126-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1599126-05 03/31/23 15:17 • (DUP) R3907959-8 03/31/23 15:17

	Original Result	DUP Result	Dilution	DUP Diff	DUP Qualifier	DUP Diff Limits
Analyte	mV	mV		mV		mV
ORP	360	361	1	0.300		20

L1599126-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1599126-06 03/31/23 15:17 • (DUP) R3907959-9 03/31/23 15:17

Analyte	Original Result mV	DUP Result mV	Dilution	DUP Diff mV	DUP Qualifier	DUP Diff Limits mV
ORP	373	373	1	0.200		20

L1599126-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1599126-07 03/31/23 15:17 • (DUP) R3907959-10 03/31/23 15:17

Analyte	Original Result mV	DUP Result mV	Dilution	DUP Diff mV	DUP Qualifier	DUP Diff Limits mV
ORP	337	338	1	0.100		20

L1599126-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1599126-08 03/31/23 15:17 • (DUP) R3907959-11 03/31/23 15:17

Analyte	Original Result mV	DUP Result mV	Dilution	DUP Diff mV	DUP Qualifier	DUP Diff Limits mV
ORP	297	296	1	0.700		20

L1599126-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1599126-09 03/31/23 15:17 • (DUP) R3907959-12 03/31/23 15:17

Analyte	Original Result mV	DUP Result mV	Dilution	DUP Diff mV	DUP Qualifier	DUP Diff Limits mV
ORP	291	291	1	0.600		20

L1599126-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1599126-10 03/31/23 15:17 • (DUP) R3907959-13 03/31/23 15:17

Analyte	Original Result mV	DUP Result mV	Dilution	DUP Diff mV	DUP Qualifier	DUP Diff Limits mV
ORP	291	292	1	0.500		20

L1599126-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1599126-11 03/31/23 15:17 • (DUP) R3907959-14 03/31/23 15:17

Analyte	Original Result mV	DUP Result mV	Dilution	DUP Diff mV	DUP Qualifier	DUP Diff Limits mV
ORP	291	291	1	0.600		20

L1599126-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1599126-12 03/31/23 15:17 • (DUP) R3907959-15 03/31/23 15:17

	Original Result	DUP Result	Dilution	DUP Diff	DUP Qualifier	DUP Diff Limits
Analyte	mV	mV		mV		mV
ORP	334	335	1	0.800		20

L1599126-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1599126-13 03/31/23 15:17 • (DUP) R3907959-16 03/31/23 15:17

	Original Result	DUP Result	Dilution	DUP Diff	DUP Qualifier	DUP Diff Limits
Analyte	mV	mV		mV		mV
ORP	291	291	1	0.300		20

L1599126-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1599126-14 03/31/23 15:17 • (DUP) R3907959-17 03/31/23 15:17

	Original Result	DUP Result	Dilution	DUP Diff	DUP Qualifier	DUP Diff Limits
Analyte	mV	mV		mV		mV
ORP	296	293	1	2.20		20

L1599126-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1599126-15 03/31/23 15:17 • (DUP) R3907959-18 03/31/23 15:17

	Original Result	DUP Result	Dilution	DUP Diff	DUP Qualifier	DUP Diff Limits
Analyte	mV	mV		mV		mV
ORP	296	297	1	0.200		20

L1599126-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1599126-16 03/31/23 15:17 • (DUP) R3907959-19 03/31/23 15:17

	Original Result	DUP Result	Dilution	DUP Diff	DUP Qualifier	DUP Diff Limits
Analyte	mV	mV		mV		mV
ORP	292	291	1	0.600		20

L1599126-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1599126-17 03/31/23 15:17 • (DUP) R3907959-20 03/31/23 15:17

	Original Result	DUP Result	Dilution	DUP Diff	DUP Qualifier	DUP Diff Limits
Analyte	mV	mV		mV		mV
ORP	454	454	1	0.300		20

L1599126-18 Original Sample (OS) • Duplicate (DUP)

(OS) L1599126-18 03/31/23 15:17 • (DUP) R3907959-21 03/31/23 15:17

Analyte	Original Result mV	DUP Result mV	Dilution	DUP Diff mV	DUP Qualifier	DUP Diff Limits mV
ORP	438	437	1	0.500		20

L1599126-19 Original Sample (OS) • Duplicate (DUP)

(OS) L1599126-19 03/31/23 15:17 • (DUP) R3907959-22 03/31/23 15:17

Analyte	Original Result mV	DUP Result mV	Dilution	DUP Diff mV	DUP Qualifier	DUP Diff Limits mV
ORP	465	465	1	0.200		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3907959-1 03/31/23 15:17 • (LCSD) R3907959-2 03/31/23 15:17

Analyte	Spike Amount mV	LCS Result mV	LCSD Result mV	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	Diff mV	Diff Limits mV
ORP	98.0	94.1	93.6	96.0	95.5	90.0-110			0.500	20

Method Blank (MB)

(MB) R3907854-1 03/31/23 11:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Reactive Cyanide	U		0.00180	0.00500

L1597530-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1597530-03 03/31/23 12:07 • (DUP) R3907854-3 03/31/23 12:08

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Reactive Cyanide	ND	ND	1	0.000		20

L1599027-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1599027-01 03/31/23 12:28 • (DUP) R3907854-6 03/31/23 12:30

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Reactive Cyanide	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3907854-2 03/31/23 12:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Cyanide	0.100	0.100	100	87.1-120	

L1599025-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1599025-04 03/31/23 12:22 • (MS) R3907854-4 03/31/23 12:24 • (MSD) R3907854-5 03/31/23 12:25

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	ND	0.0903	0.0949	90.3	94.9	1	90.0-110			4.97	20

L1599096-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1599096-01 03/31/23 12:34 • (MS) R3907854-7 03/31/23 12:36 • (MSD) R3907854-8 03/31/23 12:37

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	ND	0.0966	0.0954	96.6	95.4	1	90.0-110			1.25	20

QUALITY CONTROL SUMMARY

L1599099-01

Method Blank (MB)

(MB) R3907185-1 03/29/23 22:17

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Reactive Sulfide	U		0.0250	0.0500

Laboratory Control Sample (LCS)

(LCS) R3907185-2 03/29/23 22:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Sulfide	0.500	0.574	115	85.0-115	

L1598783-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1598783-01 03/31/23 12:31 • (DUP) R3907822-2 03/31/23 12:31

Analyte	Original Result su	DUP Result su	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
pH	7.78	7.80	1	0.257		1

Sample Narrative:
OS: 7.78 at 20.2C
DUP: 7.8 at 20.3C

L1598783-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1598783-02 03/31/23 12:31 • (DUP) R3907822-3 03/31/23 12:31

Analyte	Original Result su	DUP Result su	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
pH	7.91	7.90	1	0.127		1

Sample Narrative:
OS: 7.91 at 20.2C
DUP: 7.9 at 20.3C

Laboratory Control Sample (LCS)

(LCS) R3907822-1 03/31/23 12:31

Analyte	Spike Amount su	LCS Result su	LCS Rec. %	Rec. Limits %	LCS Qualifier
pH	10.0	10.0	100	99.0-101	

Sample Narrative:
LCS: 10.03 at 19.6C

L1598176-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1598176-01 03/30/23 01:53 • (DUP) R3907095-3 03/30/23 01:53

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	deg F	deg F		%		%
Flashpoint	DNF at 170	DNF at 170	1	0.000		10

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3907095-1 03/30/23 01:53 • (LCSD) R3907095-2 03/30/23 01:53

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	deg F	deg F	deg F	%	%	%			%	%
Flashpoint	126	126	128	100	102	96.0-104			1.57	10

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
T8	Sample(s) received past/too close to holding time expiration.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

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

H180

SUB CONTRATOR: Pace TN	COMPANY: PACE TN		PHONE: (800) 767-5859	FAX: (615) 758-5859	
ADDRESS: 12065 Lebanon Rd			ACCOUNT #:	EMAIL:	
CITY, STATE, ZIP: Mt. Juliet, TN 37122					

L1599099

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2303C54-001F	S-25 (03/23/23)	500HDPE	Aqueous	3/23/2023 3:40:00 PM	3	RCI, ORP

-01

NSAT
3.5+0=3.5
6094 5470 0118

Sample Receipt Checklist

COC Seal Present/Intact:	Y N	If Applicable	
COC Signed/Accurate:	Y N	VOA Zero Headspace:	Y N
Bottles arrive intact:	Y N	Pres.Correct/Check:	Y N
Correct bottles used:	Y N		
Sufficient volume sent:	Y N		
RAD Screen <0.5 mR/hr:	Y N		

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By:	Date: 3/24/2023	Time: 11:19 AM	Received By: (14)	Date: 3/28/23	Time: 920
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☐ RUSH Next BD ☐ 2nd BD ☐ 3rd BD ☐

REPORT TRANSMITTAL DESIRED:
☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY
Temp of samples ____ ℃ Attempt to Cool ? ____
Comments: ____

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303C54**

13-Apr-23

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **A95555**	RunNo: **95555**
Prep Date:	Analysis Date: **3/24/2023**	SeqNo: **3456572** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								
Sulfate	ND	0.50								

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **A95555**	RunNo: **95555**
Prep Date:	Analysis Date: **3/24/2023**	SeqNo: **3456573** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	2.4	0.10	2.500	0	96.8	90	110			
Phosphorus, Orthophosphate (As P	5.1	0.50	5.000	0	101	90	110			
Sulfate	9.8	0.50	10.00	0	97.6	90	110			

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R95796**	RunNo: **95796**
Prep Date:	Analysis Date: **4/4/2023**	SeqNo: **3467491** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R95796**	RunNo: **95796**
Prep Date:	Analysis Date: **4/4/2023**	SeqNo: **3467492** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	92.0	90	110			

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R95884**	RunNo: **95884**
Prep Date:	Analysis Date: **4/7/2023**	SeqNo: **3471621** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Nitrate+Nitrite as N	ND	0.20								

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R95884**	RunNo: **95884**
Prep Date:	Analysis Date: **4/7/2023**	SeqNo: **3471622** Units: **mg/L**

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
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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303C54**

13-Apr-23

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R95884**	RunNo: **95884**							
Prep Date:	Analysis Date: **4/7/2023**	SeqNo: **3471622**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.50	0.10	0.5000	0	100	90	110			
Nitrate+Nitrite as N	3.4	0.20	3.500	0	98.5	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303C54**

13-Apr-23

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **MB-73955**	SampType: **MBLK**	TestCode: **EPA Method 8081: Pesticides TCLP**							
Client ID: **PBW**	Batch ID: **73955**	RunNo: **95672**							
Prep Date: **3/27/2023**	Analysis Date: **3/29/2023**	SeqNo: **3462494**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chlordane	ND	0.030								
Surr: Decachlorobiphenyl	0.0026		0.002500		102	40.9	111			
Surr: Tetrachloro-m-xylene	0.0015		0.002500		58.8	15	107			

Sample ID: **MB-73955**	SampType: **MBLK**	TestCode: **EPA Method 8081: Pesticides TCLP**							
Client ID: **PBW**	Batch ID: **73955**	RunNo: **95672**							
Prep Date: **3/27/2023**	Analysis Date: **3/29/2023**	SeqNo: **3462495**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chlordane	ND	0.030								
Surr: Decachlorobiphenyl	0.0027		0.002500		107	40.9	111			
Surr: Tetrachloro-m-xylene	0.0016		0.002500		64.1	15	107			

Sample ID: **LCS-73955**	SampType: **LCS**	TestCode: **EPA Method 8081: Pesticides TCLP**							
Client ID: **LCSW**	Batch ID: **73955**	RunNo: **95672**							
Prep Date: **3/27/2023**	Analysis Date: **3/29/2023**	SeqNo: **3462500**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	0.0025		0.002500		98.0	40.9	111			
Surr: Tetrachloro-m-xylene	0.0017		0.002500		67.0	15	107			

Sample ID: **LCS-73955**	SampType: **LCS**	TestCode: **EPA Method 8081: Pesticides TCLP**							
Client ID: **LCSW**	Batch ID: **73955**	RunNo: **95672**							
Prep Date: **3/27/2023**	Analysis Date: **3/29/2023**	SeqNo: **3462501**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	0.0026		0.002500		105	40.9	111			
Surr: Tetrachloro-m-xylene	0.0018		0.002500		72.9	15	107			

Sample ID: **LCSD-73955**	SampType: **LCSD**	TestCode: **EPA Method 8081: Pesticides TCLP**							
Client ID: **LCSS02**	Batch ID: **73955**	RunNo: **95672**							
Prep Date: **3/27/2023**	Analysis Date: **3/29/2023**	SeqNo: **3462502**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	0.0027		0.002500		106	40.9	111	0	0	
Surr: Tetrachloro-m-xylene	0.0016		0.002500		65.1	15	107	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303C54**

13-Apr-23

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **LCSD-73955**	SampType: **LCSD**	TestCode: **EPA Method 8081: Pesticides TCLP**
Client ID: **LCSS02**	Batch ID: **73955**	RunNo: **95672**
Prep Date: **3/27/2023**	Analysis Date: **3/29/2023**	SeqNo: **3462503** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	0.0028		0.002500		111	40.9	111	0	0	
Surr: Tetrachloro-m-xylene	0.0018		0.002500		72.0	15	107	0	0	

Qualifiers:

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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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303C54**

13-Apr-23

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **TCLP Volatiles by 8260B**
Client ID: **LCSW**	Batch ID: **T95684**	RunNo: **95684**
Prep Date:	Analysis Date: **3/30/2023**	SeqNo: **3462920** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.021	0.0010	0.02000	0	106	70	130			
1,1-Dichloroethene	0.021	0.0010	0.02000	0	107	70	130			
Trichloroethene (TCE)	0.021	0.0010	0.02000	0	104	70	130			
Chlorobenzene	0.021	0.0010	0.02000	0	104	70	130			
Surr: 1,2-Dichloroethane-d4	0.010		0.01000		102	70	130			
Surr: 4-Bromofluorobenzene	0.010		0.01000		100	70	130			
Surr: Dibromofluoromethane	0.010		0.01000		102	70	130			
Surr: Toluene-d8	0.0096		0.01000		95.9	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **TCLP Volatiles by 8260B**
Client ID: **PBW**	Batch ID: **T95684**	RunNo: **95684**
Prep Date:	Analysis Date: **3/30/2023**	SeqNo: **3462922** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.50								
1,2-Dichloroethane (EDC)	ND	0.50								
2-Butanone	ND	200								
Carbon Tetrachloride	ND	0.50								
Chloroform	ND	6.0								
1,4-Dichlorobenzene	ND	7.5								
1,1-Dichloroethene	ND	0.70								
Tetrachloroethene (PCE)	ND	0.70								
Trichloroethene (TCE)	ND	0.50								
Vinyl chloride	ND	0.20								
Chlorobenzene	ND	100								
Surr: 1,2-Dichloroethane-d4	0.0099		0.01000		99.4	70	130			
Surr: 4-Bromofluorobenzene	0.010		0.01000		104	70	130			
Surr: Dibromofluoromethane	0.011		0.01000		107	70	130			
Surr: Toluene-d8	0.0098		0.01000		97.8	70	130			

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#: **2303C54**

13-Apr-23

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **mb-73935**	SampType: **MBLK**	TestCode: **EPA Method 8270C TCLP**
Client ID: **PBW**	Batch ID: **73935**	RunNo: **95730**
Prep Date: **3/27/2023**	Analysis Date: **3/31/2023**	SeqNo: **3464751** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	ND	200								
3+4-Methylphenol	ND	200								
2,4-Dinitrotoluene	ND	0.13								
Hexachlorobenzene	ND	0.13								
Hexachlorobutadiene	ND	0.50								
Hexachloroethane	ND	3.0								
Nitrobenzene	ND	2.0								
Pentachlorophenol	ND	100								
Pyridine	ND	5.0								
2,4,5-Trichlorophenol	ND	400								
2,4,6-Trichlorophenol	ND	2.0								
Cresols, Total	ND	200								
Surr: 2-Fluorophenol	0.10		0.2000		52.4	20.8	71.9			
Surr: Phenol-d5	0.079		0.2000		39.4	16.2	54.5			
Surr: 2,4,6-Tribromophenol	0.11		0.2000		55.9	18.8	117			
Surr: Nitrobenzene-d5	0.057		0.1000		56.6	33	85.9			
Surr: 2-Fluorobiphenyl	0.046		0.1000		46.2	26.3	79.6			
Surr: 4-Terphenyl-d14	0.085		0.1000		85.0	53.9	124			

Sample ID: **lcs-73935**	SampType: **LCS**	TestCode: **EPA Method 8270C TCLP**
Client ID: **LCSW**	Batch ID: **73935**	RunNo: **95730**
Prep Date: **3/27/2023**	Analysis Date: **3/31/2023**	SeqNo: **3464752** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	0.073	0.0050	0.1000	0	72.7	26.8	92.9			
3+4-Methylphenol	0.15	0.0051	0.2000	0	76.8	23.7	100			
2,4-Dinitrotoluene	0.055	0.0049	0.1000	0	55.5	22.3	71.2			
Hexachlorobenzene	0.077	0.019	0.1000	0	77.3	26.1	91.6			
Hexachlorobutadiene	0.033	0.017	0.1000	0	33.0	15	74.2			
Hexachloroethane	0.040	0.014	0.1000	0	40.2	15	85.4			
Nitrobenzene	0.063	0.0049	0.1000	0	63.1	26.1	89.6			
Pentachlorophenol	0.061	0.027	0.1000	0	61.0	21.7	89.4			
Pyridine	0.032	0.014	0.1000	0	32.1	15	68.4			
2,4,5-Trichlorophenol	0.068	0.0063	0.1000	0	68.2	27	97.9			
2,4,6-Trichlorophenol	0.067	0.0059	0.1000	0	67.3	27.9	92.6			
Cresols, Total	0.23	0.027	0.3000	0	75.4	24.8	97.7			
Surr: 2-Fluorophenol	0.12		0.2000		60.5	20.8	71.9			
Surr: Phenol-d5	0.095		0.2000		47.5	16.2	54.5			
Surr: 2,4,6-Tribromophenol	0.16		0.2000		78.9	18.8	117			

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#: **2303C54**

13-Apr-23

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **lcs-73935**	SampType: **LCS**	TestCode: **EPA Method 8270C TCLP**							
Client ID: **LCSW**	Batch ID: **73935**	RunNo: **95730**							
Prep Date: **3/27/2023**	Analysis Date: **3/31/2023**	SeqNo: **3464752**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Nitrobenzene-d5	0.072		0.1000		72.0	33	85.9			
Surr: 2-Fluorobiphenyl	0.062		0.1000		62.1	26.3	79.6			
Surr: 4-Terphenyl-d14	0.096		0.1000		95.9	53.9	124			

Qualifiers:

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H	Holding times for preparation or analysis exceeded
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B	Analyte detected in the associated Method Blank
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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303C54**

13-Apr-23

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **lcs-1 99.4uS eC**	SampType: **lcs**	TestCode: **SM2510B: Specific Conductance**
Client ID: **LCSW**	Batch ID: **R95754**	RunNo: **95754**
Prep Date:	Analysis Date: **4/3/2023**	SeqNo: **3465838** Units: **µmhos/cm**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	99	10	99.40	0	99.6	101	101			S

Sample ID: **lcs-1 99.4uS eC**	SampType: **LCS**	TestCode: **SM2510B: Specific Conductance**
Client ID: **LCSW**	Batch ID: **R95829**	RunNo: **95829**
Prep Date:	Analysis Date: **4/5/2023**	SeqNo: **3469081** Units: **µmhos/cm**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	100	10	99.40	0	100	85	115			

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#: **2303C54**

13-Apr-23

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **MB-73959**	SampType: **MBLK**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **PBW**	Batch ID: **73959**	RunNo: **95622**
Prep Date: **3/27/2023**	Analysis Date: **3/28/2023**	SeqNo: **3460152** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID: **LCSLL-73959**	SampType: **LCSLL**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **BatchQC**	Batch ID: **73959**	RunNo: **95622**
Prep Date: **3/27/2023**	Analysis Date: **3/28/2023**	SeqNo: **3460153** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00021	0.00020	0.0001500	0	137	50	150			

Sample ID: **LCS-73959**	SampType: **LCS**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **LCSW**	Batch ID: **73959**	RunNo: **95622**
Prep Date: **3/27/2023**	Analysis Date: **3/28/2023**	SeqNo: **3460154** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0051	0.00020	0.005000	0	101	85	115			

Sample ID: **LCSD-73959**	SampType: **LCSD**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **LCSS02**	Batch ID: **73959**	RunNo: **95622**
Prep Date: **3/27/2023**	Analysis Date: **3/28/2023**	SeqNo: **3460155** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0051	0.00020	0.005000	0	102	85	115	0.426	20	

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
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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303C54**

13-Apr-23

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **MB-A**	SampType: **MBLK**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **PBW**	Batch ID: **A95671**	RunNo: **95671**
Prep Date:	Analysis Date: **3/29/2023**	SeqNo: **3462398** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Magnesium	ND	1.0								
Potassium	ND	1.0								

Sample ID: **LCS-A**	SampType: **LCS**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **A95671**	RunNo: **95671**
Prep Date:	Analysis Date: **3/29/2023**	SeqNo: **3462400** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	54	1.0	50.00	0	108	80	120			
Magnesium	53	1.0	50.00	0	106	80	120			
Potassium	52	1.0	50.00	0	104	80	120			

Sample ID: **LCSD-A**	SampType: **LCSD**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **LCSS02**	Batch ID: **A95671**	RunNo: **95671**
Prep Date:	Analysis Date: **3/29/2023**	SeqNo: **3462401** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	55	1.0	50.00	0	110	80	120	1.81	20	
Magnesium	54	1.0	50.00	0	108	80	120	1.51	20	
Potassium	53	1.0	50.00	0	106	80	120	1.10	20	

Sample ID: **MB-A**	SampType: **MBLK**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **PBW**	Batch ID: **A95848**	RunNo: **95848**
Prep Date:	Analysis Date: **4/6/2023**	SeqNo: **3470101** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	ND	1.0								

Sample ID: **LCS-A**	SampType: **LCS**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **A95848**	RunNo: **95848**
Prep Date:	Analysis Date: **4/6/2023**	SeqNo: **3470103** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	54	1.0	50.00	0	109	80	120			

Qualifiers:

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303C54**

13-Apr-23

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **MB-73985**	SampType: **MBLK**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW**	Batch ID: **73985**	RunNo: **95671**
Prep Date: **3/28/2023**	Analysis Date: **3/29/2023**	SeqNo: **3462394** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.030								
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Lead	ND	0.020								
Selenium	ND	0.050								
Silver	ND	0.0050								

Sample ID: **LCS-73985**	SampType: **LCS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW**	Batch ID: **73985**	RunNo: **95671**
Prep Date: **3/28/2023**	Analysis Date: **3/29/2023**	SeqNo: **3462396** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.46	0.030	0.5000	0	92.1	80	120			
Barium	0.44	0.0020	0.5000	0	87.3	80	120			
Cadmium	0.44	0.0020	0.5000	0	88.6	80	120			
Chromium	0.44	0.0060	0.5000	0	88.1	80	120			
Lead	0.44	0.020	0.5000	0	88.5	80	120			
Selenium	0.47	0.050	0.5000	0	93.0	80	120			
Silver	0.084	0.0050	0.1000	0	84.0	80	120			

Sample ID: **LCSD-73985**	SampType: **LCSD**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSS02**	Batch ID: **73985**	RunNo: **95671**
Prep Date: **3/28/2023**	Analysis Date: **3/29/2023**	SeqNo: **3462397** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.46	0.030	0.5000	0	91.7	80	120	0.405	20	
Barium	0.44	0.0020	0.5000	0	87.5	80	120	0.217	20	
Cadmium	0.44	0.0020	0.5000	0	88.6	80	120	0.0362	20	
Chromium	0.44	0.0060	0.5000	0	88.7	80	120	0.690	20	
Lead	0.44	0.020	0.5000	0	88.7	80	120	0.237	20	
Selenium	0.47	0.050	0.5000	0	93.2	80	120	0.181	20	
Silver	0.085	0.0050	0.1000	0	84.5	80	120	0.654	20	

Qualifiers:

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J	Analyte detected below quantitation limits
P	Sample pH Not In Range
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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303C54**

13-Apr-23

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **mb-1 alk**	SampType: **mblk**	TestCode: **SM2320B: Alkalinity**							
Client ID: **PBW**	Batch ID: **R95630**	RunNo: **95630**							
Prep Date:	Analysis Date: **3/28/2023**	SeqNo: **3460648**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: **lcs-1 alk**	SampType: **lcs**	TestCode: **SM2320B: Alkalinity**							
Client ID: **LCSW**	Batch ID: **R95630**	RunNo: **95630**							
Prep Date:	Analysis Date: **3/28/2023**	SeqNo: **3460649**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	78.68	20.00	80.00	0	98.4	94.8	102			

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303C54**

13-Apr-23

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **MB-74044**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**							
Client ID: **PBW**	Batch ID: **74044**	RunNo: **95745**							
Prep Date: **3/31/2023**	Analysis Date: **4/3/2023**	SeqNo: **3465355**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	50.0								

Sample ID: **LCS-74044**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**							
Client ID: **LCSW**	Batch ID: **74044**	RunNo: **95745**							
Prep Date: **3/31/2023**	Analysis Date: **4/3/2023**	SeqNo: **3465356**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	998	50.0	1000	0	99.8	80	120			

Qualifiers:

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H	Holding times for preparation or analysis exceeded
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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: 2303C54 | RcptNo: 1

Received By: Tracy Casarrubias 3/24/2023 7:00:00 AM

Completed By: Tracy Casarrubias 3/24/2023 11:11:38 AM

Reviewed By: KPG 3.24.23

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: 3 : 2 (<2 or >12 unless noted)

Adjusted? No

Checked by: KPG 3.24.23

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	3.2	Good	Yes	Morty		
2	0.2	Good	Yes	Morty		

Chain-of-Custody Record

Client: Souder, Miller & Associates

Mailing Address: 401 W. Broadway
Farmington, NM 87401

Phone #: (505) 325-7535

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 #1

Project #:

Project Manager: Heather Woods

Sampler: HW

On Ice: ☒ Yes ☐ No mostly

# of Coolers: 2

Cooler Temp (Including CF): 0.4 - 0.2 0.2 (°C)
3.2 = 3.2°

HALL ENVIRONMENTAL ANALYSIS LABORATORY
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. 2303C54	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)	See Attached / Comments
3/23/23	1540	Aq	S-25(03/23/23)	(5) 1L Amber	Non	001											X
				(2) 500mL Plastic	Non												
				(1) 500mL Plastic	Zinc acetate NaOH												
				(1) 125mL Plastic	Filtered HNO_3												
				(1) 125mL Plastic	H_2SO_4												
				(1) 250mL Plastic	NaOH												
				(3) 40mL VOA	HCl												
				(1) 250mL Plastic	HNO_3												

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
3/23/23	1739	Heather M. Woods			3/23/23	1739
3/24/23	1804			Courier	3/24/23	7:00

Remarks: Direct Bill to Agua Moss
Rates per Andy
Reporting Limits per Attached (2 pages)

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.

Characteristic of toxicity using the Toxicity Characteristic Leaching Procedure, EPA SW-846 Test Method 1311 (see Table 1, 40 CFR 261.24(b)).

QUARTERLY MONITORING LIST			
EPA HW No.	Contaminant	SW-846 Methods	Regulatory Level (mg/L)
D004	Arsenic	1311	5.0
D005	Barium	1311	100.0
D018	Benzene	8021B	0.5
D006	Cadmium	1311	1.0
D019	Carbon tetrachloride	8021B 8260B	0.5
D020	Chlordane	8081A	0.03
D021	Chlorobenzene	8021B 8260B	100.0
D022	Chloroform	8021B 8260B	6.0
D007	Chromium	1311	5.0
D023	o-Cresol	8270D	200.0
D024	m-Cresol	8270D	200.0
D025	p-Cresol	8270D	200.0
D026	Cresol	8270D	200.0
D027	1,4-Dichlorobenzene	8021B 8121 8260B 8270D	7.5
D028	1,2-Dichloroethane	8021B 8260B	0.5
D029	1,1-Dichloroethylene	8021B 8260B	0.7
D030	2,4-Dinitrotoluene	8091 8270D	0.13
D032	Hexachlorobenzene	8121	0.13
D033	Hexachlorobutadiene	8021B 8121 8260B	0.5
D034	Hexachloroethane	8121	3.0
D008	Lead	1311	5.0
D009	Mercury	7470A 7471B	0.2
D035	Methyl ethyl ketone	8015B 8260B	200.0

D036	Nitrobenzene	8091 8270D	2.0
D037	Pentrachlorophenol	8041	100.0
D038	Pyridine	8260B 8270D	5.0

D010	Selenium	1311	1.0
D011	Silver	1311	5.0
D039	Tetrachloroethylene	8260B	0.7
D040	Trichloroethylene	8021B 8260B	0.5
D041	2,4,5-Trichlorophenol	8270D	400.0
D042	2,4,6-Trichlorophenol	8041A 8270D	2.0
D043	Vinyl chloride	8021B 8260B	0.2

If o-, m-, and p-cresol concentrations cannot be differentiated, then the total cresol (D026) concentration is used. The regulatory level of total cresol is 200 mg/L.
If the quantitation limit is greater than the regulatory level, then the quantitation limit becomes the regulatory level.
If metals (dissolved), the EPA 1311 TCLP Laboratory Method is required with the exception of Mercury (total).

ADDTIONALLY:

RCI, specific conductance, specific gravity, ORP, and general water quality parameters (general chemistry/cations and anions, including: fluoride, calcium, potassium, magnesium, sodium bicarbonate, carbonate, chloride, sulfate, total dissolved solids, cation/anion balance, pH, and bromide) using the methods specified at 40 CFR 136.3.

Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

WELL API NO.
30-045-28653

5. Indicate Type of Lease
STATE ☐ FEE ☐

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name
Sunco Disposal

1. Type of Well: Oil Well ☐ Gas Well ☒ Other UIC Disposal

8. Well Number #1

2. Name of Operator
Agua Moss, LLC

9. OGRID Number
247130

3. Address of Operator
PO Box 600 Farmington, NM 87499

10. Pool name or Wildcat
SWD-MV

4. Well Location
Unit Letter J E : 1595 feet from the North line and 1005 feet from the West line
Section 2 Township 29N Range 12W NMPM San Juan County

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*
5859'

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☐	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
DOWNHOLE COMMINGLE	☐						
CLOSED-LOOP SYSTEM	☐						
OTHER:		QRT 1 Reports 2023	☒	OTHER:			☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Agua Moss, LLC is submitting the 1st QRT Reports

Spud Date: | Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Philana Thompson TITLE HSE & Regulatory Compliance DATE 5/1/2023

Type or print name Philana Thompson E-mail address: pthompson@merrion.bz PHONE: 505-486-1171

For State Use Only

APPROVED BY: TITLE DATE

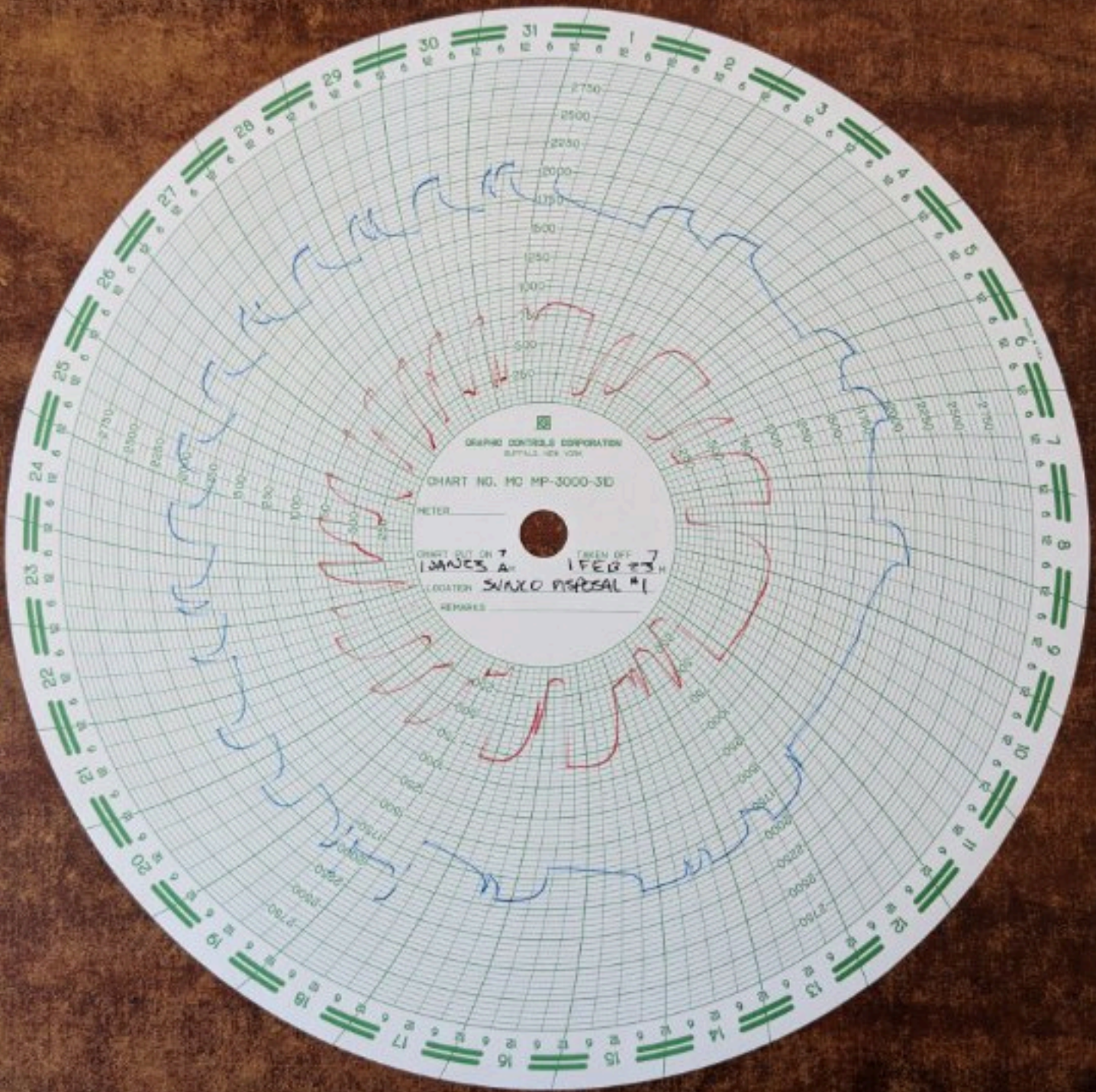
Conditions of Approval (if any):

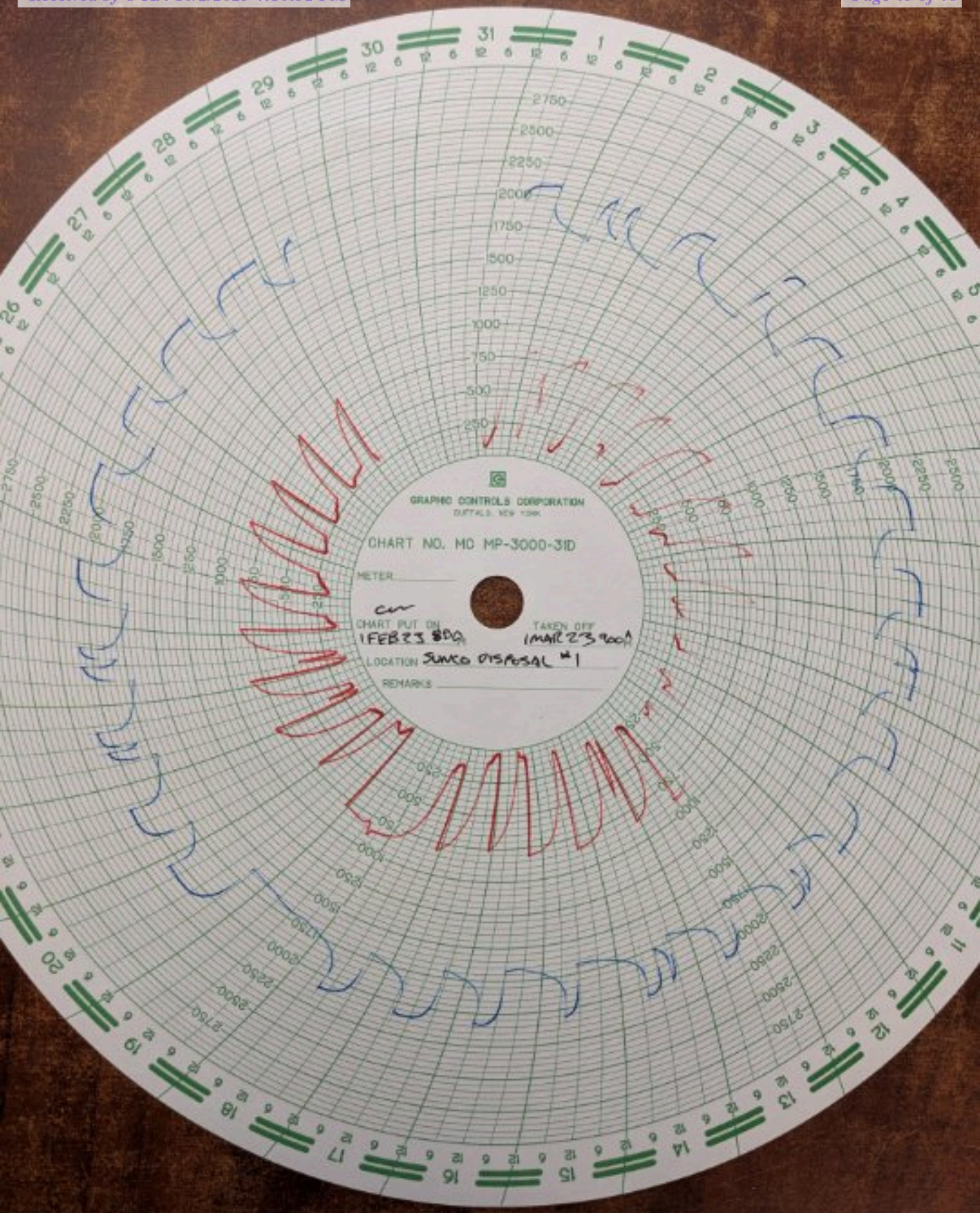
NMOCD
2023

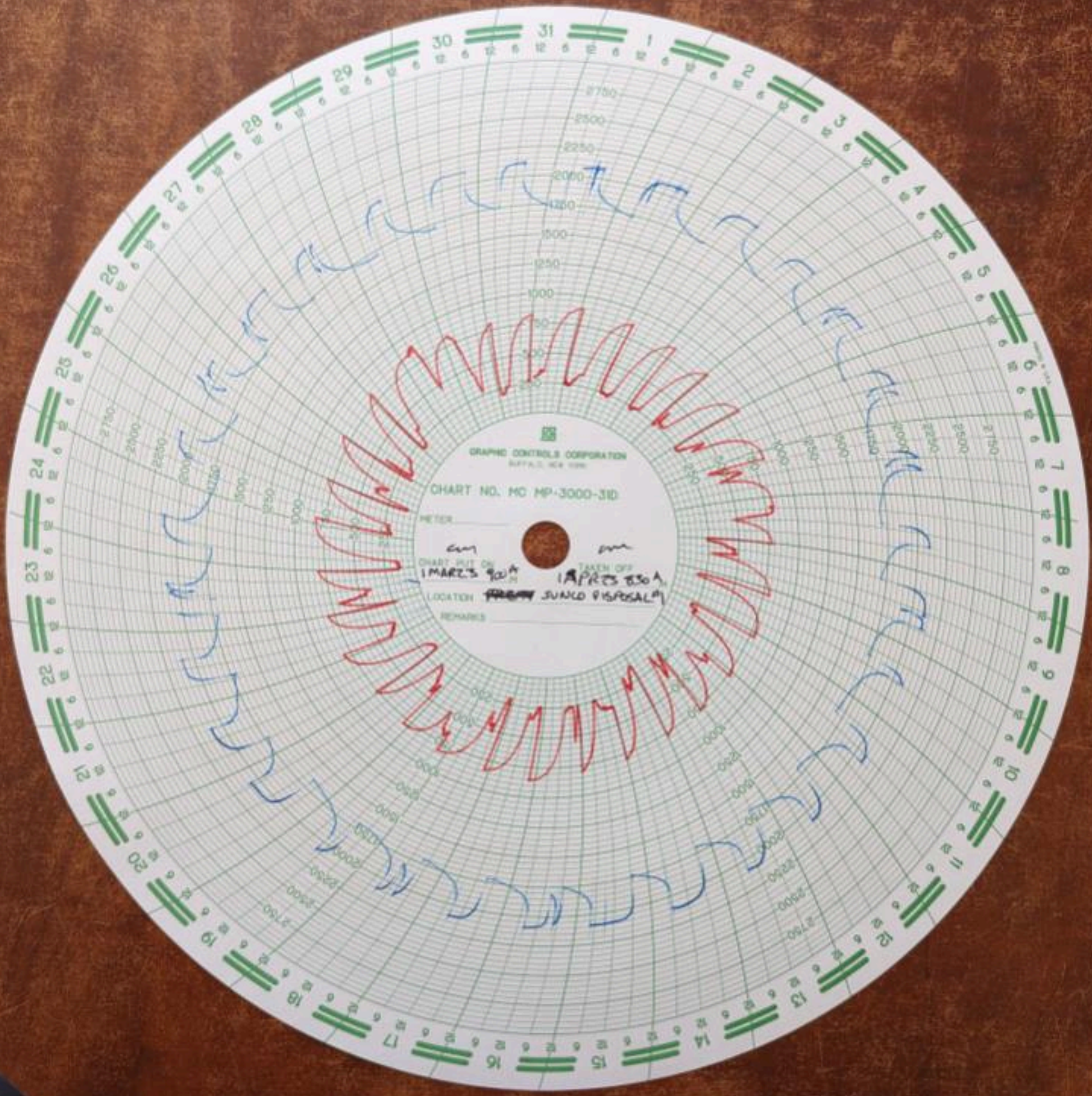
Agua Moss, LLC
Sunco Disposal #1 30-045-28653

Quarterly
Injection Report

	Average Pressure (psig)	Maximum Pressure (psig)	Minimum Pressure (psig)	Average Flow (gpm)	Maxium Flow (gpm)	Minimum Flow (gpm)	Average Annular Pressure (psig)	Maximum Annular Pressure (psig)	Minimum Annular Pressure (psig)	Average Volume (bpd)	Maximum Volume (bpd)	Minimum Volume (bpd)	Volume (barrels)	Total Cumulative Volume (barrels)	
													Previous year	16081878	
Jan-2023	1835.484	2100	1600	28.63269231	49.49583333	1.05	0	0	0	981.6923077	1697	36	25524	16107402	
Feb-2023	2009.821	2100	1700	36.20123457	58.82916667	13.8833333	0	0	0	1241.185185	2017	476	33512	16140914	
Mar-2023	2014.516	2150	1750	31.30241935	54.97916667	10.1791667	0	0	0	1073.225806	1885	349	33270	16174184	
													Previous Quarter	16174184	
Apr-2023	#DIV/0!	0	0	0	0	0	0	0	0	#DIV/0!	0	0	0	16174184	
May-2023	#DIV/0!	0	0	0	0	0	0	0	0	#DIV/0!	0	0	0	16174184	
Jun-2023	#DIV/0!	0	0	0	0	0	0	0	0	#DIV/0!	0	0	0	16174184	
													Previous Quarter	16174184	
Jul-23	#DIV/0!	0	0	0	0	0	0	0	0	#DIV/0!	0	0	0	16174184	
Aug-23	#DIV/0!	0	0	0	0	0	0	0	0	#DIV/0!	0	0	0	16174184	
Sep-23	#DIV/0!	0	0	0	0	0	0	0	0	0	0	0	0	16174184	
													Previous Quarter	16174184	
Oct-2023	#DIV/0!	0	0	0	0	0	0	0	0	#DIV/0!	0	0	0	16174184	
Nov-2023	#DIV/0!	0	0	0	0	0	0	0	0	#DIV/0!	0	0	0	16174184	
Dec-2023	#DIV/0!	0	0	0	0	0	0	0	0	#DIV/0!	0	0	0	16174184	
												Total for year	**92306**	**16266490**	**Life Of well injected**


GRAPHIC CONTROLS CORPORATION
CHART NO. MC MP-3000-3D
METER
CHART PUT ON 7
1 JAN 23 A.M.
TAKEN OFF 7
1 FEB 23 A.M.
LOCATION SWD CO DISPOSAL #1
REMARKS


GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
CHART NO. MC MP-3000-31D
METER
CHART PUT ON
1FEB23 800
TAKEN OFF
1MAR23 800
LOCATION SUNCO DISPOSAL #1
REMARKS


GRAPHIC CONTROLS CORPORATION
CHART NO. MC MP-3000-3D
METER
CHART PUT ON
1 MARCH 9 AM
TAKEN OFF
1 APRIL 8 AM
LOCATION
SWD DISPOSAL #1
REMARKS

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
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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

COMMENTS

Action 271532

COMMENTS

Operator: AGUA MOSS, LLC P.O. Box 600 Farmington, NM 87499	OGRID: 247130
	Action Number: 271532
	Action Type: [UF-DP] Discharge Permit (DISCHARGE PERMIT)

COMMENTS

Created By	Comment	Comment Date
cchavez	Quarterly Report- QR FY23 Q2 Submittal	10/4/2023

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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Operator: AGUA MOSS, LLC P.O. Box 600 Farmington, NM 87499	OGRID: 247130
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CONDITIONS

Created By	Condition	Condition Date
cchavez	None	10/4/2023