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

Quarterly Injection Report

	Average	Maximum	Minimum				Average	Maximum Annular	Minimum Annular		Maximum	Minimum		Total Cumulative	
	Pressure	Pressure	Pressure	Average Flow	Maxium Flow	Minimum	Annular	Pressure	Pressure	Average	Volume	Volume	Volume	Volume	
	(psig)	(psig)	(psig)	(gpm)	(gpm)	Flow (gpm)	Pressure (psig)	(psig)	(psig)	Volume (bpd)	(bpd)	(bpd)	(barrels)	(barrels)	
_												Pro	evious year	15182756	
Jan-2020	1620	1850	1250	33.35208333	62.7375	11.8708333	0	0	0	1143.5	2151	407	16009	15198765	
Feb-2020	1896.429	2350	1750	40.61728395	68.6	7.58333333	0	0	0	1392.592593	2352	260	37600	15236365	
Mar-2020	1917.742	2150	1850	34.69277778	70.9625	8.8375	0	0	0	1189.466667	2433	303	35684	15272049	
												Previo	us Quarter	15272049	
Apr-2020	0	0	0	26.20710784	48.70833333	7.6125	0	0	0	898.5294118	1670	261	15275	15287324	
May-2020	1873.684	2150	1750	0	0	0	0	0	0	0	0	0	0	15287324	
Jun-2020	1495	1520	1450	0.466666667	0.466666667	0.46666667	0	0	0	16	16	16	16	15287340	
												Previo	us Quarter	15287340	
Jul-20	1423.333	1720	1275	15.925	15.925	15.925	0	0	0	546	546	546	546	15287886	
Aug-20	0	0	0	0	0	0	0	0	0	0	0	0	0	15287886	
Sep-20	0	0	0	0	0	0	0	0	0	0	0	0	0	15287886	
				-								Previo	us Quarter	15287886	
Oct-2020	0	0	0	0	0	0	0	0	0	0	0	0	0	15287886	
Nov-2020	0	0	0	0	0	0	0	0	0	0	0	0	0	15287886	
Dec-2020	0	0	0	0	0	0	0	0	0	#DIV/0!	0	0	0	15287886	
-	<u>'</u>	•	,		•						To	otal for year	105130	15393016 I	ife Of well

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	WH	AP			WH	AP			WH	AP			WH	AP			WH	AP			WH	AP	
1/1/21				2/1/21	1750			3/1/21	1900			4/1/21	0	0		5/1/21	1900			6/1/21	1500	0	
1/2/21				2/2/21	1800			3/2/21	1900			4/2/21				5/2/21	1950			6/2/21			
1/3/21				2/3/21	1850			3/3/21	1900			4/3/21				5/3/21	1950			6/3/21			
1/4/21				2/4/21	1850			3/4/21	1900			4/4/21				5/4/21	1900			6/4/21			
1/5/21				2/5/21	1900			3/5/21	1900			4/5/21				5/5/21	1850			6/5/21			
1/6/21				2/6/21	2350			3/6/21	1950			4/6/21				5/6/21	1850			6/6/21			
1/7/21				2/7/21	1850			3/7/21	1850			4/7/21				5/7/21	1900			6/7/21			
1/8/21				2/8/21	1850			3/8/21	1900			4/8/21				5/8/21	1900			6/8/21	1500		
1/9/21				2/9/21	1800			3/9/21	1900			4/9/21				5/9/21	1900			6/9/21			
1/10/21				2/10/21	1900			3/10/21	1925			4/10/21				5/10/21	2150			6/10/21			
1/11/21				2/11/21	1900			3/11/21	1925			4/11/21			l	5/11/21	1850			6/11/21			
1/12/21				2/12/21	1900			3/12/21	1950			4/12/21				5/12/21	1850			6/12/21			
1/13/21				2/13/21	1900			3/13/21	1950			4/13/21			l	5/13/21				6/13/21			
1/14/21				2/14/21	1850			3/14/21	1900			4/14/21				5/14/21				6/14/21			
1/15/21	1250			2/15/21	1800			3/15/21	1850			4/15/21			l	5/15/21	1850			6/15/21			
1/16/21				2/16/21	1850			3/16/21	1900			4/16/21				5/16/21	1850			6/16/21	1500		
1/17/21				2/17/21	1800			3/17/21	1950			4/17/21			l	5/17/21	1750			6/17/21	1500		
1/18/21	1250			2/18/21	1800			3/18/21	2150			4/18/21				5/18/21	1750			6/18/21			
1/19/21	1400			2/19/21	1800			3/19/21	1950			4/19/21			l	5/19/21	1800			6/19/21			
1/20/21	1550			2/20/21	1900			3/20/21	1950			4/20/21				5/20/21	1800			6/20/21			
1/21/21	1600			2/21/21	1750			3/21/21	1850			4/21/21			l	5/21/21	1850			6/21/21			
1/22/21	1700			2/22/21	1750			3/22/21	1850			4/22/21			l	5/22/21				6/22/21			
1/23/21	1750			2/23/21	2075			3/23/21	1950			4/23/21				5/23/21				6/23/21			
1/24/21	1700		l	2/24/21	1900			3/24/21	1850			4/24/21			l	5/24/21				6/24/21			
1/25/21	1400			2/25/21	2100			3/25/21	1850			4/25/21			l	5/25/21				6/25/21			
1/26/21	1700			2/26/21	2100			3/26/21	1950			4/26/21			l	5/26/21				6/26/21			
1/27/21	1750			2/27/21	2100			3/27/21	1950			4/27/21			l	5/27/21				6/27/21			
1/28/21	1800			2/28/21	1925			3/28/21	1850			4/28/21			l	5/28/21				6/28/21			
1/29/21	1850							3/29/21	1950			4/29/21			l	5/29/21				6/29/21	1450		
1/30/21	1800							3/30/21	2000			4/30/21			!	5/30/21				6/30/21	1520		
1/31/21	1800		Ļ,					3/31/21	1900		Ļ,				Щ.	5/31/21			Щ,				<u> </u>
	1620	0	AVG		1896.429	0	AVG		1917.742	0	AVG	<u> </u>	0	0	AVG		1873.684	0	AVG].	1495	0	AVG
	1250	0	MIN		1750	0	MIN		1850	0	MIN	<u> </u>	0	0	MIN		1750	0	MIN]	1450	0	MIN
	1850	0	MAX		2350	0	MAX		2150	0	MAX	L	0	0	MAX		2150	0	MAX	Į	1520	0	MAX

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Total Injected	Avg Vol	Avg Flow		Avg Vol	Avg Flow		Avg Vol	Avg Flow	A	Avg Vol	Avg Flow		Avg Vol	Avg Flow	А	vg Vol	Avg Flow
1/1/21			2/1/21	1146	33.425	3/1/21	1074	31.325	4/1/2021	1465	42.72916667	5/1/2021			6/1/2021		
1/2/21			2/2/21	2156	62.88333333	3/2/21	864	25.2	4/2/2021	1670	48.70833333	5/2/2021			6/2/2021		
1/3/21			2/3/21	1402	40.89166667	3/3/21	2001	58.3625	4/3/2021	913	26.62916667	5/3/2021			6/3/2021		
1/4/21			2/4/21	2235	65.1875	3/4/21	1640	47.83333333	4/4/2021			5/4/2021			6/4/2021		
1/5/21			2/5/21	2011	58.65416667	3/5/21	1558	45.44166667	4/5/2021	699	20.3875	5/5/2021			6/5/2021		
1/6/21			2/6/21	1178	34.35833333	3/6/21			4/6/2021	1144	33.36666667	5/6/2021			6/6/2021		
1/7/21			2/7/21	931	27.15416667	3/7/21	885	25.8125	4/7/2021	1242	36.225	5/7/2021			6/7/2021		
1/8/21			2/8/21	1494	43.575	3/8/21	1155	33.6875	4/8/2021	662	19.30833333	5/8/2021			6/8/2021		
1/9/21			2/9/21	1316	38.38333333	3/9/21	903	26.3375	4/9/2021	587	17.12083333	5/9/2021			6/9/2021		
1/10/21			2/10/21	1512	44.1	3/10/21	1980	57.75	4/10/2021	670	19.54166667	5/10/2021			6/10/2021		
1/11/21			2/11/21	2104	61.36666667	3/11/21	1524	44.45	4/11/2021	1167	34.0375	5/11/2021			6/11/2021		
1/12/21			2/12/21	2352	68.6	3/12/21	1801	52.52916667	4/12/2021	261	7.6125	5/12/2021			6/12/2021		
1/13/21			2/13/21	559	16.30416667	3/13/21	1157	33.74583333	4/13/2021			5/13/2021			6/13/2021		
1/14/21			2/14/21	260	7.583333333	3/14/21	357	10.4125	4/14/2021			5/14/2021			6/14/2021		
1/15/21			2/15/21	1210	35.29166667	3/15/21	1557	45.4125	4/15/2021	1001	29.19583333	5/15/2021			6/15/2021		
1/16/21			2/16/21	659	19.22083333	3/16/21	1297	37.82916667	4/16/2021	701	20.44583333	5/16/2021			6/16/2021		
1/17/21			2/17/21	1605	46.8125	3/17/21	841	24.52916667	4/17/2021			5/17/2021			6/17/2021		
1/18/21	407	11.87083333	2/18/21	1461	42.6125	3/18/21	2433	70.9625	4/18/2021	793	23.12916667	5/18/2021			6/18/2021		
1/19/21	1163	33.92083333	2/19/21	1287	37.5375	3/19/21	1652	48.18333333	4/19/2021	1020	29.75	5/19/2021			6/19/2021		
1/20/21	987	28.7875	2/20/21	490	14.29166667	3/20/21	374	10.90833333	4/20/2021	685	19.97916667	5/20/2021			6/20/2021		
1/21/21	1648	48.06666667	2/21/21			3/21/21	303	8.8375	4/21/2021	595	17.35416667	5/21/2021			6/21/2021		
1/22/21	2151	62.7375	2/22/21	1003	29.25416667	3/22/21	801	23.3625	4/22/2021			5/22/2021			6/22/2021		
1/23/21	828	24.15	2/23/21	2264	66.03333333	3/23/21	1755	51.1875	4/23/2021			5/23/2021			6/23/2021		
1/24/21	501	14.6125	2/24/21	653	19.04583333	3/24/21	918	26.775	4/24/2021			5/24/2021			6/24/2021		
1/25/21	763	22.25416667	2/25/21	1497	43.6625	3/25/21	1524	44.45	4/25/2021			5/25/2021	0	0	6/25/2021		
1/26/21	1223	35.67083333	2/26/21	1967	57.37083333	3/26/21	802	23.39166667	4/26/2021			5/26/2021			6/26/2021		
1/27/21	1231	35.90416667	2/27/21	1857	54.1625	3/27/21	538	15.69166667	4/27/2021			5/27/2021			6/27/2021		
1/28/21	2143	62.50416667	2/28/21	991	28.90416667	3/28/21	466	13.59166667	4/28/2021			5/28/2021			6/28/2021		
1/29/21	1244	36.28333333				3/29/21	928	27.06666667	4/29/2021			5/29/2021			6/29/2021		
1/30/21	1184	34.53333333				3/30/21	1142	33.30833333	4/30/2021			5/30/2021			6/30/2021	16	0.466666667
1/31/21	536	15.63333333				3/31/21	1454	42.40833333	_			5/31/2021	-				
AVG	1143.5	33.35208333		1392.592593	40.61728395		1189.466667	34.69277778		898.5294118	26.20710784		C	0		16	0.46666667
MAX	2151			2352	68.6		2433	70.9625		1670	48.70833333		O	0		16	0.466666667
MIN	407			260	7.5833333		303	8.8375000		261			0	0.0000000			0.4666667
Total for mont	16009			37600			35684			15275			0			16	

Released to Imaging: 8/18/2021 8:12:46 AM



Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Hall Environmental Analysis Laboratory

4901 Hawkins NE

July 23, 2021

Heather Woods

Souder, Miller and Associates

401 W. Broadway

Farmington, NM 87401 TEL: (505) 325-5667

FAX (505) 327-1496

RE: Aqua Moss Sunco # 1 OrderNo.: 2106F12

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/29/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2106F12

Date Reported: 7/23/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates Client Sample ID: S-18 (6/28/21)

 Project:
 Aqua Moss Sunco # 1
 Collection Date: 6/28/2021 11:00:00 AM

 Lab ID:
 2106F12-001
 Matrix: AQUEOUS
 Received Date: 6/29/2021 8:00:00 AM

Result **RL Oual Units DF** Date Analyzed Analyses **Batch EPA METHOD 8081: PESTICIDES TCLP** Analyst: JME Chlordane ND 0.030 mg/L 1 7/2/2021 9:43:16 AM 61046 Surr: Decachlorobiphenvl 104 41.7-129 %Rec 1 7/2/2021 9:43:16 AM 61046 Surr: Tetrachloro-m-xylene 93.1 31.8-88.5 S %Rec 1 7/2/2021 9:43:16 AM 61046 **EPA METHOD 8270C TCLP** Analyst: JME 2-Methylphenol 7/9/2021 4:25:33 AM ND 200 ma/L 1 61067 3+4-Methylphenol ND 200 mg/L 1 7/9/2021 4:25:33 AM 61067 2.4-Dinitrotoluene ND 0.13 mg/L 1 7/9/2021 4:25:33 AM 61067 Hexachlorobenzene ND 0.13 mg/L 1 7/9/2021 4:25:33 AM 61067 Hexachlorobutadiene ND 0.50 7/9/2021 4:25:33 AM 61067 mg/L 1 Hexachloroethane ND 3.0 mg/L 1 7/9/2021 4:25:33 AM 61067 Nitrobenzene ND 2.0 mg/L 1 7/9/2021 4:25:33 AM 61067 Pentachlorophenol ND 100 mg/L 7/9/2021 4:25:33 AM 61067 Pyridine ND 5.0 mg/L 7/9/2021 4:25:33 AM 61067 2,4,5-Trichlorophenol 400 ND mg/L 7/9/2021 4:25:33 AM 61067 ND 2,4,6-Trichlorophenol 2.0 7/9/2021 4:25:33 AM 61067 mg/L Cresols, Total ND 200 mg/L 1 7/9/2021 4:25:33 AM 61067 Surr: 2-Fluorophenol 46.9 15-91.8 %Rec 1 7/9/2021 4:25:33 AM 61067 Surr: Phenol-d5 34.5 15-69.6 %Rec 1 7/9/2021 4:25:33 AM 61067 Surr: 2,4,6-Tribromophenol 67.2 15-115 %Rec 1 7/9/2021 4:25:33 AM 61067 Surr: Nitrobenzene-d5 54.7 15-109 %Rec 1 7/9/2021 4:25:33 AM 61067 Surr: 2-Fluorobiphenyl 15-96 %Rec 7/9/2021 4:25:33 AM 61067 52.8 Surr: 4-Terphenyl-d14 81.9 15-133 %Rec 1 7/9/2021 4:25:33 AM 61067 **SPECIFIC GRAVITY** Analyst: JRR Specific Gravity 1.014 0 7/14/2021 11:06:00 AM R79788 **EPA METHOD 300.0: ANIONS** Analyst: CAS Fluoride ND 1.0 mg/L 6/29/2021 7:40:47 PM R79465 Chloride 16000 500 mq/L 1E+ 7/9/2021 5:25:39 PM R79711 **Bromide** 1.0 6/29/2021 7:40:47 PM R79465 23 mg/L Phosphorus, Orthophosphate (As P) ND 5.0 mg/L 6/29/2021 7:40:47 PM R79465 ND 10 Sulfate 5.0 mg/L 6/29/2021 7:40:47 PM R79465 Nitrate+Nitrite as N ND 10 mg/L 50 7/14/2021 2:59:54 AM A79773 **SM2510B: SPECIFIC CONDUCTANCE** Analyst: CAS Conductivity 51000 100 umhos/c 10 7/2/2021 2:26:35 PM R79556 SM2320B: ALKALINITY Analyst: JRR mg/L Ca 2.5 7/15/2021 10:37:37 PM R79813 Bicarbonate (As CaCO3) 886.3 50.00 Н Carbonate (As CaCO3) ND 5.000 Н mg/L Ca 2.5 7/15/2021 10:37:37 PM R79813 Н mg/L Ca 2.5 7/15/2021 10:37:37 PM R79813 Total Alkalinity (as CaCO3) 886.3 50.00

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

Qualifiers:

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

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

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Analytical Report Lab Order 2106F12

Date Reported: 7/23/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project: Aqua Moss Sunco # 1

Lab ID: 2106F12-001

Client Sample ID: S-18 (6/28/21)

Collection Date: 6/28/2021 11:00:00 AM

Matrix: AQUEOUS Received Date: 6/29/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	JMT
Total Dissolved Solids	29300	200	*D	mg/L	1	7/6/2021 11:27:00 AM	61072
SM4500-H+B / 9040C: PH						Analyst	CAS
рН	5.83		Н	pH units	1	6/30/2021 4:47:19 PM	R79516
EPA METHOD 7470: MERCURY						Analyst	: ags
Mercury	ND	0.020		mg/L	1	7/9/2021 11:04:54 AM	61188
EPA METHOD 6010B: DISSOLVED METALS				3		Analyst	ags
Calcium	470	10		mg/L	10	6/30/2021 5:23:52 PM	A79508
Magnesium	80	10		mg/L	10	6/30/2021 5:23:52 PM	A79508
Potassium	39	10		mg/L	10	6/30/2021 5:23:52 PM	A79508
Sodium	8500	100		mg/L	-	6/30/2021 5:52:29 PM	A79508
EPA 6010B: TOTAL RECOVERABLE METALS	0000	.00		9, =		Analyst	
	ND	5 0		ma/l	1		61023
Arsenic Barium		5.0		mg/L		6/30/2021 4:58:00 PM	61023
Cadmium	110 ND	100 1.0		mg/L		7/13/2021 1:12:40 PM 6/30/2021 4:58:00 PM	61023
Chromium	ND ND	5.0		mg/L	1 1	6/30/2021 4:58:00 PM	61023
Lead	ND	5.0		mg/L	1	7/16/2021 3:32:09 PM	61023
Selenium	ND ND	1.0		mg/L	1	6/30/2021 4:58:00 PM	61023
Silver	ND ND	5.0		mg/L mg/L	1	6/30/2021 4:58:00 PM	61023
	ND	5.0		IIIg/L	'		
TCLP VOLATILES BY 8260B				_		Analyst	
Benzene	11	0.50		mg/L		7/1/2021 6:03:56 AM	T79505
1,2-Dichloroethane (EDC)	ND	0.50		mg/L		7/1/2021 6:03:56 AM	T79505
2-Butanone	ND	200		mg/L		7/1/2021 6:03:56 AM	T79505
Carbon Tetrachloride	ND	0.50		mg/L		7/1/2021 6:03:56 AM	T79505
Chloroform	ND	6.0		mg/L		7/1/2021 6:03:56 AM	T79505
1,4-Dichlorobenzene	ND	7.5		mg/L		7/1/2021 6:03:56 AM	T79505
1,1-Dichloroethene	ND	0.70		mg/L		7/1/2021 6:03:56 AM	T79505
Tetrachloroethene (PCE)	ND	0.70		mg/L		7/1/2021 6:03:56 AM	T79505
Trichloroethene (TCE)	ND	0.50		mg/L		7/1/2021 6:03:56 AM	T79505
Vinyl chloride	ND	0.20		mg/L		7/1/2021 6:03:56 AM	T79505
Chlorobenzene	ND	100		mg/L		7/1/2021 6:03:56 AM	T79505
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec		7/1/2021 6:03:56 AM	T79505
Surr: 4-Bromofluorobenzene	102	70-130		%Rec		7/1/2021 6:03:56 AM	T79505
Surr: Dibromofluoromethane	101	70-130		%Rec		7/1/2021 6:03:56 AM	T79505
Surr: Toluene-d8	94.3	70-130		%Rec	200	7/1/2021 6:03:56 AM	T79505

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

Qualifiers:

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

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

Page 2 of 17

Analytical Report
Lab Order 2106F12

Client Sample ID: Trip Blank

Collection Date:

Date Reported: 7/23/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project: Aqua Moss Sunco # 1

Lab ID: 2106F12-002 **Matrix:** TRIP BLANK **Received Date:** 6/29/2021 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
TCLP VOLATILES BY 8260B					Analys	t: RAA
Benzene	ND	0.50	mg/L	1	7/1/2021 6:31:12 AM	T79505
1,2-Dichloroethane (EDC)	ND	0.50	mg/L	1	7/1/2021 6:31:12 AM	T79505
2-Butanone	ND	200	mg/L	1	7/1/2021 6:31:12 AM	T79505
Carbon Tetrachloride	ND	0.50	mg/L	1	7/1/2021 6:31:12 AM	T79505
Chloroform	ND	6.0	mg/L	1	7/1/2021 6:31:12 AM	T79505
1,4-Dichlorobenzene	ND	7.5	mg/L	1	7/1/2021 6:31:12 AM	T79505
1,1-Dichloroethene	ND	0.70	mg/L	1	7/1/2021 6:31:12 AM	T79505
Tetrachloroethene (PCE)	ND	0.70	mg/L	1	7/1/2021 6:31:12 AM	T79505
Trichloroethene (TCE)	ND	0.50	mg/L	1	7/1/2021 6:31:12 AM	T79505
Vinyl chloride	ND	0.20	mg/L	1	7/1/2021 6:31:12 AM	T79505
Chlorobenzene	ND	100	mg/L	1	7/1/2021 6:31:12 AM	T79505
Surr: 1,2-Dichloroethane-d4	106	70-130	%Rec	1	7/1/2021 6:31:12 AM	T79505
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	7/1/2021 6:31:12 AM	T79505
Surr: Dibromofluoromethane	102	70-130	%Rec	1	7/1/2021 6:31:12 AM	T79505
Surr: Toluene-d8	98.9	70-130	%Rec	1	7/1/2021 6:31:12 AM	T79505

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

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

Page 3 of 17



Pace Analytical® ANALYTICAL REPORT

July 23, 2021





Ss

Cn

Sr [°]Qc

Gl

Αl



Hall Environmental Analysis Laboratory

L1372907 Sample Delivery Group: Samples Received: 06/30/2021

Project Number:

Description:

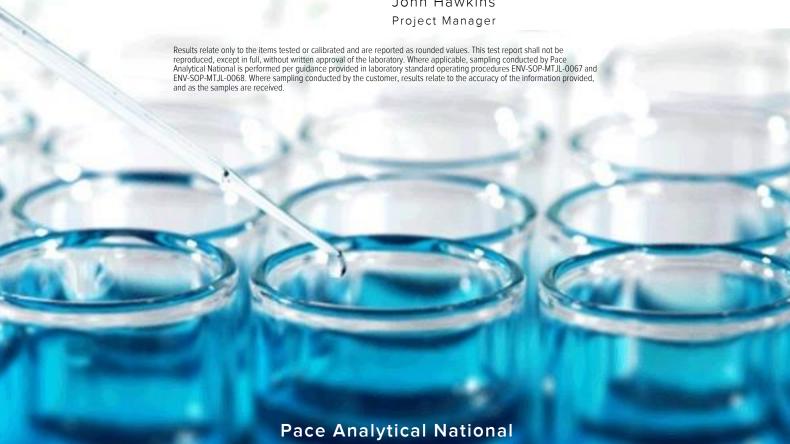
Report To: Jackie Bolte

4901 Hawkins NE

Albuquerque, NM 87109

Entire Report Reviewed By: Jah V Houkins

John Hawkins



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

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16

Sc: Sample Chain of Custody

Wet Chemistry by Method 2580

SAMPLE SUMMARY

			Collected by	Collected date/time	Received da	te/time
2106F12-001F S-18 (6/28/21) L1372907-01 WW				06/28/21 11:00	06/30/21 09	:00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Wet Chemistry by Method 4500H+ B-2011	WG1700812	1	07/07/21 14:00	07/07/21 14:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method D93/1010A	WG1703776	1	07/13/21 02:04	07/13/21 02:04	CAT	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
2106F12-001G S-18 (6/28/21) L1372907-02 WW				06/28/21 11:00	06/30/21 09	:00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Wet Chemistry by Method 4500 S2 D-2011	WG1700481	1	07/05/21 22:03	07/05/21 22:03	JIC	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
2106F12-001H S-18 (6/28/21) L1372907-03 WW				06/28/21 11:00	06/30/21 09	:00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Wet Chemistry by Method 4500 CN E-2011	WG1708500	1	07/20/21 20:52	07/21/21 12:44	KEG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
2106F12-001l S-18 (6/28/21) L1372907-04 GW				06/28/21 11:00	06/30/21 09	:00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		

WG1700745

07/06/21 15:52

07/06/21 15:52

АМН

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.











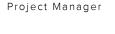












Project Narrative

John Hawkins

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

SAMPLE RESULTS - 01

Wet Chemistry by Method 4500H+ B-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	SU			date / time	
Corrosivity by pH	5.90	<u>T8</u>	1	07/07/2021 14:00	WG1700812



Sample Narrative:

L1372907-01 WG1700812: 5.9 at 21.3C

Collected date/time: 06/28/21 11:00



Ss

Wet Chemistry by Method D93/1010A

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	deg F			date / time	
Flashpoint	DNF at 170		1	07/13/2021 02:04	WG1703776



Cn











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SAMPLE RESULTS - 02

L1372907

Collected date/time: 06/28/21 11:00

Wet Chemistry by Method 4500 S2 D-2011

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Reactive Sulfide	0.330		0.0500	1	07/05/2021 22:03	WG1700481



















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SAMPLE RESULTS - 03

Collected date/time: 06/28/21 11:00

Wet Chemistry by Method 4500 CN E-2011

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Reactive Cyanide	0.0162	J4	0.00500	1	07/21/2021 12:44	WG1708500



















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SAMPLE RESULTS - 04

Wet Chemistry by Method 2580

Collected date/time: 06/28/21 11:00

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>	
Analyte	mV			date / time		
ORP	42.5	T8	1	07/06/2021 15:52	WG1700745	



















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Wet Chemistry by Method 2580

ORP

L1372907-04

L1372907-04 Original Sample (OS) • Duplicate (DUP)

42.5

(OS) L1372907-04 07/06/21 15:52 • (DUP) R3676180-3 07/06/21 15:52								
	Original Result	DUP Result	Dilution	DUP Diff	DUP Qualifier	DUP Diff Limits		
Analyte	mV	mV		mV		mV		

44.0



²Tc

³Ss

1.50

(/										
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	Diff	Diff Limits
Analyte	mV	mV	mV	%	%	%			mV	mV
ORP	106	106	106	100	100	86.0-105			0.000	20

20



[†]Cn









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Wet Chemistry by Method 4500 CN E-2011

L1372907-03

Method Blank (MB)

(MB) R3682171-1 07/21/21 12:36

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





L1373848-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1373848-03 07/21/21 12:46 • (DUP) R3682171-4 07/21/21 12:49

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





⁶Qc

L1377992-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1377992-01 07/21/21 13:09 • (DUP) R3682171-7 07/21/21 13:10

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



⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3682171-3 07/21/21 12:37

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Reactive Cyanide	0.100	0.0820	82.0	87.1-120	<u>J4</u>

L1377792-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1377792-01 07/21/21 13:06 • (MS) R3682171-5 07/21/21 13:07 • (MSD) R3682171-6 07/21/21 13:08

(OS) LI3///92-01 0//	/21/21 13:06 • (MS) R	36821/1-5 0//.	21/21 13:07 • (MSD) R36821/1	-6 0//21/2113	3:08						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Reactive Cyanide	0.100	ND	0.110	0.103	105	98.0	1	90.0-110			6.57	20

07/23/21 07:23

L1372907

PROJECT:

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L1372907-02

Wet Chemistry by Method 4500 S2 D-2011

Method Blank (MB)

(MB) R3675772-1 07	7/05/21 21:20			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Reactive Sulfide	U		0.0250	0.0500

¹Cp





Laboratory Control Sample (LCS)

(LCS) R3675772-2	07/05/21 21:29
(LCS) NSO/S//2 2	07/03/21 21.23

(LCS) K3073772-2 07/03/	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Reactive Sulfide	0.500	0.536	107	85.0-115	



[†]Cn









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L1372907-01

Wet Chemistry by Method 4500H+ B-2011 Laboratory Control Sample (LCS)

(LCS) R3676727-1 07/07/2114:00

Sample Narrative: LCS: 10.04 at 21.2C

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













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Wet Chemistry by Method D93/1010A

L1372907-01

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

(LCS) R3678532-1 07/13/21 02:04 • (LCSD) R3678532-2 07/13/21 02:04	• (LCSD) R3678532-2 07/13/21 02:04
--	------------------------------------

	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	131	131	104	104	96.0-104			0.000	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

Abbic viations and	
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
J4	The associated batch QC was outside the established quality control range for accuracy.
T8	Sample(s) received past/too close to holding time expiration.























Pace Analy	utical National	12065 Lebanon	Rd Mount Julie	t TN 37122
race Allai	yticai Nationai		i Ku Mourit Julie	I, IIN 3/122

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	LAO00356
Kentucky 16	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	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



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

TN00003

EPA-Crypto



















 $^{^* \, \}text{Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.} \\$

Received by QCD: 8/17/2021 4:36:51 PM ENVIRONMENTAL

LABORATORY

CHAIN OF CUSTODY RECORD P

ACP.	OF.
AGE:	1

Hall Environmental Analysis Laboratory 4901 Hawkins NE

Albuquerque, NM 87109

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

E183

Website: clients.hallenvironmental.com

SUB C	ONTRATOR: Pace	TN COMPANY:	PACE TN		PHONE:	(800) 767-5	5859 FAX: (615) 758	-5859
ADDRI	12065	Lebanon Rd		67	ACCOUNT #:		EMAIL:	=
CITY, S	TATE, ZIP: Mt. Ju	uliet, TN 37122			07			
ТЕМ	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	U372907 ANALYTICAL COMM	MENTS
1	2106F12-001F	S-18 (6/28/21)	500HDPE	Aqueous	6/28/2021 11:00:00 AM	1 RCI		-c1
2	2106F12-001G	S-18 (6/28/21)	500PLNAOH	Aqueous	6/28/2021 11:00:00 AM	1 RCI		-602
3	2106F12-001H	S-18 (6/28/21)	500PL-NaOH	Aqueous	6/28/2021 11:00:00 AM	1 RCI		-ej
4	2106F12-001I	S-18 (6/28/21)	125HDP	Aqueous	6/28/2021 11:00:00 AM	1 ORP		M

COC Seal Present/Intact: N N Sample Receipt N N N N N N N N N N N N N N N N N N N	The Applicable VOA Zero Headspace: Pres.Correct/Check: Y N

CDECTAL	DIGTORICS	PECANIC LE	OMMENT	0

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: 544	Date: 6/29/2021	Time: 10:47 AM	Received By:	Date:	Time:	REPORT TRANSMITTAL DESIRED:				
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	☐ HARDCOPY (extra cost) ☐ FAX	☐ EMAIL ☐ ONLINE			
Relinquished By:	Date:	Time:	Received By:	63021	TOT: GO	Temp of samples 4.64-2-4.8	ONLY Attempt to Cool?			
TAT: St	andard	RUSH	Next BD 2nd BD	☐ 3rd E	BD 🗆	AZOT	Attempt to Cool 2			
						Comments				

Hall Environmental Analysis Laboratory, Inc.

WO#: **2106F12**

23-Jul-21

Client: Souder, Miller and Associates

Project: Aqua Moss Sunco # 1

Sample ID: MB SampType: mblk TestCode: EPA Method 300.0: Anions Client ID: PBW Batch ID: **R79465** RunNo: 79465 Prep Date: Analysis Date: 6/29/2021 SeqNo: 2793674 Units: mg/L SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit Qual Fluoride ND 0.10 Bromide ND 0.10 Phosphorus, Orthophosphate (As P ND 0.50 Sulfate ND 0.50

Sample ID: LCS SampType: Ics TestCode: EPA Method 300.0: Anions Client ID: LCSW Batch ID: R79465 RunNo: 79465 Prep Date: Analysis Date: 6/29/2021 SeqNo: 2793675 Units: mg/L SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result POI I owl imit HighLimit Qual Fluoride 0.53 0.10 0.5000 0 106 90 110 0 2.5 0.10 2.500 100 90 110 Bromide Phosphorus, Orthophosphate (As P 4.7 0.50 5.000 0 93.3 90 110 0 98.4 Sulfate 9.8 0.50 10.00 90 110

Sample ID: MB SampType: mblk TestCode: EPA Method 300.0: Anions Client ID: PBW Batch ID: R79711 RunNo: 79711 Prep Date: Analysis Date: 7/9/2021 SeqNo: 2803588 Units: mg/L SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Chloride ND 0.50

Sample ID: LCS SampType: Ics TestCode: EPA Method 300.0: Anions Client ID: LCSW Batch ID: R79711 RunNo: 79711 Prep Date: Analysis Date: 7/9/2021 SeqNo: 2803594 Units: mg/L HighLimit **RPDLimit** Analyte Result SPK value SPK Ref Val %REC %RPD Qual PQL LowLimit Chloride 0.50 5.000 96.0 110

Sample ID: MB SampType: mblk TestCode: EPA Method 300.0: Anions Client ID: PBW Batch ID: A79773 RunNo: 79773 Analysis Date: 7/13/2021 Prep Date: SeqNo: 2806400 Units: mg/L SPK value SPK Ref Val %REC LowLimit **RPDLimit** Analyte Result **PQL** HighLimit %RPD Qual

Nitrate+Nitrite as N ND 0.20

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

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

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Hall Environmental Analysis Laboratory, Inc.

2106F12 23-Jul-21

WO#:

Client: Souder, Miller and Associates

Project: Aqua Moss Sunco # 1

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

Client ID: LCSW Batch ID: A79773 RunNo: 79773

Prep Date: Analysis Date: 7/14/2021 SeqNo: 2806401 Units: mg/L

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

Nitrate+Nitrite as N 3.4 0.20 3.500 0 97.9 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

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 5 of 17

Hall Environmental Analysis Laboratory, Inc.

WO#: **2106F12**

23-Jul-21

Client: Souder, Miller and Associates

Project: Aqua Moss Sunco # 1

Sample ID: MB-61046	SampType: MBLK TestCode: EPA Method 8081: Pesticides TCLP								
Client ID: PBW	Batch II	D: 61046	R	RunNo: 79529					
Prep Date: 6/30/2021	Analysis Dat	e: 7/1/2021	S	eqNo: 27 9	96336	Units: mg/L			
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chlordane	ND (0.030							
Surr: Decachlorobiphenyl	0.0031	0.002500		124	41.7	129			
Surr: Tetrachloro-m-xylene	0.0015	0.002500		62.0	31.8	88.5			
Sample ID: MB-61046	SampTyp	e: MBLK	TestCode: EPA Method 8081: Pesticides TCLP						
Client ID: PBW	Batch II	D: 61046	R	unNo: 79	529				
Prep Date: 6/30/2021	Analysis Dat	e: 7/1/2021	S	eqNo: 27 9	96337	Units: mg/L			
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chlordane	ND (0.030							
Surr: Decachlorobiphenyl	0.0033	0.002500		133	41.7	129			S
Surr: Tetrachloro-m-xylene	0.0017	0.002500		68.7	31.8	88.5			
Sample ID: LCS-61046	SampTyp	e: LCS	Test	Code: EP	A Method	8081: Pesticio	des TCLP		
Client ID: LCSW	Batch II	D: 61046	R	unNo: 79	529				
Prep Date: 6/30/2021	Analysis Date	e: 7/1/2021	S	eqNo: 27 9	96338	Units: %Rec			
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	0.0031	0.002500		124	41.7	129			
Surr: Tetrachloro-m-xylene	0.0018	0.002500		70.4	31.8	88.5			
Sample ID: 2106F12-001BMS	SampTyp	e: MS	Test	Code: EP	A Method	8081: Pesticio	des TCLP	·	<u>'</u>
Client ID: S-18 (6/28/21)	Batch II	D: 61046	R	RunNo: 79547					
Prep Date: 6/30/2021	Analysis Dat	e: 7/2/2021	s	egNo: 27 9	97400	Units: %Rec			

Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	0.0041	0.002500	_	164	41.7	129	-	•	S
Surr: Tetrachloro-m-xylene	0.0031	0.002500		122	31.8	88.5			S
Sample ID: 2106F12-001BMSD	Sample ID: 2106F12-001BMSD SampType: MSD TestCode: EPA Method 8081: Pesticides TCLP								
Client ID: S-18 (6/28/21)	Batch ID: 610	046	R	unNo: 7 9	9547				

Client ID: S-18 (6/28/21) Batch ID: 61046 RunNo: 79547

Prep Date: 6/30/2021 Analysis Date: 7/2/2021 SeqNo: 2797402 Units: %Rec

Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Surr: Decachlorobiphenyl 0.0026 0.002500 102 41.7 129 0 0 0.0024 0.002500 94.7 31.8 88.5 0 0 S Surr: Tetrachloro-m-xylene

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

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2106F12 23-Jul-21**

Client: Souder, Miller and Associates

Project: Aqua Moss Sunco # 1

Sample ID: LCS-61046 SampType: LCS TestCode: EPA Method 8081: Pesticides TCLP

Client ID: LCSW Batch ID: 61046 RunNo: 79529

Prep Date: 6/30/2021 Analysis Date: 7/1/2021 SeqNo: 2797408 Units: %Rec

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

 Surr: Decachlorobiphenyl
 0.0030
 0.002500
 119
 41.7
 129

 Surr: Tetrachloro-m-xylene
 0.0018
 0.002500
 71.2
 31.8
 88.5

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

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

ND

0.010

0.011

0.010

0.0098

100

0.01000

0.01000

0.01000

0.01000

2106F12 23-Jul-21

WO#:

Client: Souder, Miller and Associates

Project: Aqua Moss Sunco # 1

Sample ID: 100ng lcs2	Samp	Type: LC	S	Tes	tCode: T (CLP Volatil				
Client ID: LCSW	Batch ID: T79505			F	RunNo: 7 9	9505				
Prep Date:	Analysis	Date: 7/	1/2021	SeqNo: 2795327			Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.022	0.00023	0.02000	0	110	70	130			
1,1-Dichloroethene	0.020	0.00013	0.02000	0	102	70	130			
Trichloroethene (TCE)	0.020	0.00020	0.02000	0	101	70	130			
Chlorobenzene	0.020	0.00014	0.02000	0	99.7	70	130			
Surr: 1,2-Dichloroethane-d4	0.011		0.01000		107	70	130			
Surr: 4-Bromofluorobenzene	0.010		0.01000		105	70	130			
Surr: Dibromofluoromethane	0.010		0.01000		102	70	130			
Surr: Toluene-d8	0.010		0.01000		102	70	130			
Sample ID: mb2	SampType: MBLK			Tes	tCode: T (CLP Volatile				
Client ID: PBW	Bat	ch ID: T7 9	9505	F	9505					
Prep Date:	Analysis	Date: 7/	1/2021	8	795330	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								

Qualifiers:

Chlorobenzene

Surr: Toluene-d8

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

- 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

B Analyte detected in the associated Method Blank

104

106

101

98.2

70

70

70

70

130

130

130

130

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2106F12 23-Jul-21

Client: Souder, Miller and Associates

Project: Aqua Moss Sunco # 1

Sample ID: MB-61067	SampType: MBLK TestCode: EPA Method 8270C TCLP									
Client ID: PBW	Batcl	n ID: 61 0	067	RunNo: 79674						
Prep Date: 7/1/2021	Analysis D	ate: 7/	8/2021	S	SeqNo: 2	802563	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	0.074		0.2000		37.1	15	91.8			
Surr: Phenol-d5	0.061		0.2000		30.5	15	69.6			
Surr: 2,4,6-Tribromophenol	0.11		0.2000		54.5	15	115			
Surr: Nitrobenzene-d5	0.047		0.1000		46.6	15	109			
Surr: 2-Fluorobiphenyl	0.046		0.1000		46.0	15	96			
Surr: 4-Terphenyl-d14	0.071		0.1000		71.4	15	133			

Sample ID: LCS-61067	SampTyp	e: LCS	Tes	tCode: EF	PA Method	8270C TCLP			
Client ID: LCSW	Batch II	D: 61067	F	RunNo: 7 9	9674				
Prep Date: 7/1/2021	Analysis Date	e: 7/8/2021	8	SeqNo: 28	302564	Units: mg/L			
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	0.053 0.0	0.1000	0	53.2	33.8	121			
3+4-Methylphenol	0.11 0.0	0.2000	0	55.3	33.6	109			
2,4-Dinitrotoluene	0.045 0.0	0.1000	0	45.1	50.4	124			S
Hexachlorobenzene	0.060 0.0	0.1000	0	60.5	50.1	120			
Hexachlorobutadiene	0.050 0.0	0.1000	0	50.2	16.1	103			
Hexachloroethane	0.047 0.0	0.1000	0	47.0	15	94.2			
Nitrobenzene	0.056 0.0	0.1000	0	56.4	32.4	125			
Pentachlorophenol	0.055 0.0	0.1000	0	54.8	44.6	114			
Pyridine	0.039 0.0	0.1000	0	39.2	15	67			
2,4,5-Trichlorophenol	0.064 0.0	0.1000	0	63.9	49.4	118			
2,4,6-Trichlorophenol	0.062 0.0	0.1000	0	61.5	50.3	116			
Cresols, Total	0.16 0.0	0.3000	0	54.6	33.8	109			
Surr: 2-Fluorophenol	0.093	0.2000		46.6	15	91.8			
Surr: Phenol-d5	0.075	0.2000		37.3	15	69.6			
Surr: 2,4,6-Tribromophenol	0.13	0.2000		66.6	15	115			

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2106F12 23-Jul-21**

Client: Souder, Miller and Associates

Project: Aqua Moss Sunco # 1

Sample ID: LCS-61067 SampType: LCS TestCode: EPA Method 8270C TCLP Client ID: LCSW Batch ID: 61067 RunNo: 79674 Prep Date: 7/1/2021 Analysis Date: 7/8/2021 SeqNo: 2802564 Units: mg/L Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: Nitrobenzene-d5 0.056 0.1000 56.4 15 109 Surr: 2-Fluorobiphenyl 0.060 0.1000 59.7 15 96 Surr: 4-Terphenyl-d14 0.083 0.1000 82.6 15 133

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2106F12**

23-Jul-21

Client: Souder, Miller and Associates

Project: Aqua Moss Sunco # 1

Sample ID: Ics-1 98.7uS eC SampType: Ics TestCode: SM2510B: Specific Conductance

Client ID: LCSW Batch ID: R79556 RunNo: 79556

Prep Date: Analysis Date: 7/2/2021 SeqNo: 2798408 Units: µmhos/cm

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

Conductivity 97 10 98.70 0 97.9 85 115

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

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2106F12**

23-Jul-21

Client: Souder, Miller and Associates

Project: Aqua Moss Sunco # 1

Sample ID: MB-61188 SampType: MBLK TestCode: EPA Method 7470: Mercury

Client ID: PBW Batch ID: 61188 RunNo: 79686

Prep Date: 7/8/2021 Analysis Date: 7/9/2021 SeqNo: 2802512 Units: mg/L

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

Mercury ND 0.00020

Sample ID: LLLCS-61188 SampType: LCSLL TestCode: EPA Method 7470: Mercury

Client ID: BatchQC Batch ID: 61188 RunNo: 79686

Prep Date: 7/8/2021 Analysis Date: 7/9/2021 SeqNo: 2802513 Units: mg/L

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

Mercury ND 0.00020 0.0001500 0 79.5 50 150

Sample ID: LCS-61188 SampType: LCS TestCode: EPA Method 7470: Mercury

Client ID: LCSW Batch ID: 61188 RunNo: 79686

Prep Date: **7/8/2021** Analysis Date: **7/9/2021** SeqNo: **2802514** Units: **mg/L**

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

Mercury 0.0049 0.00020 0.005000 0 97.9 85 115

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

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

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Hall Environmental Analysis Laboratory, Inc.

Souder, Miller and Associates

2106F12 23-Jul-21

WO#:

Client:

Project: Aqua Moss Sunco # 1

Sample ID: MB SampType: MBLK TestCode: EPA Method 6010B: Dissolved Metals

PBW Client ID: Batch ID: A79508 RunNo: 79508

Prep Date: Analysis Date: 6/30/2021 SeqNo: 2795572 Units: mg/L

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

Magnesium ND 1.0 Potassium ND 1.0 Sodium ND 1.0

Sample ID: LCS SampType: LCS TestCode: EPA Method 6010B: Dissolved Metals

Client ID: LCSW Batch ID: A79508 RunNo: 79508

Prep Date: Analysis Date: 6/30/2021 SeqNo: 2795576 Units: mg/L

SPK value SPK Ref Val %REC Analyte PQL LowLimit HighLimit %RPD **RPDLimit** Qual 50.00 48 0 97.0 80 120 Magnesium 1.0 Potassium 48 1.0 50.00 0 95.9 80 120 0 97.5 49 1.0 50.00 80 120 Sodium

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2106F12**

23-Jul-21

Client: Souder, Miller and Associates

Project: Aqua Moss Sunco # 1

Sample ID: MB-61023 SampType: MBLK TestCode: EPA 6010B: Total Recoverable Metals Client ID: PBW Batch ID: 61023 RunNo: 79508 Prep Date: 6/29/2021 Analysis Date: 6/30/2021 SeqNo: 2795520 Units: mg/L PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Arsenic ND 0.030 Barium ND 0.0020 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-61023	TestCode: EPA 6010B: Total Recoverable Metals										
Client ID: LCSW	Bato	Batch ID: 61023			RunNo: 7 9	9508					
Prep Date: 6/29/2021	Pate: 6/29/2021 Analysis Date: 6/30/2021			5	SeqNo: 2	795522	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Arsenic	0.49	0.030	0.5000	0	97.5	80	120				
Barium	0.48	0.0020	0.5000	0	96.3	80	120				
Cadmium	0.49	0.0020	0.5000	0	97.3	80	120				
Chromium	0.48	0.0060	0.5000	0	96.5	80	120				
Lead	0.50	0.020	0.5000	0	99.3	80	120				
Selenium	0.50	0.050	0.5000	0	99.2	80	120				
Silver	0.098	0.0050	0.1000	0	98.4	80	120				

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

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

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Hall Environmental Analysis Laboratory, Inc.

2106F12 23-Jul-21

WO#:

Client: Souder, Miller and Associates

Project: Aqua Moss Sunco # 1

Sample ID: mb-1 alk SampType: mblk TestCode: SM2320B: Alkalinity

Client ID: PBW Batch ID: R79813 RunNo: 79813

Prep Date: Analysis Date: 7/15/2021 SeqNo: 2809111 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: Ics-1 alk SampType: Ics TestCode: SM2320B: Alkalinity

Client ID: LCSW Batch ID: R79813 RunNo: 79813

Prep Date: Analysis Date: 7/15/2021 SeqNo: 2809112 Units: mg/L CaCO3

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

Total Alkalinity (as CaCO3) 78.92 20.00 80.00 0 98.6 90 110

Sample ID: mb-2 alk SampType: mblk TestCode: SM2320B: Alkalinity

Client ID: PBW Batch ID: R79813 RunNo: 79813

Prep Date: Analysis Date: 7/15/2021 SeqNo: 2809134 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: Ics-2 alk SampType: Ics TestCode: SM2320B: Alkalinity

Client ID: LCSW Batch ID: R79813 RunNo: 79813

Prep Date: Analysis Date: 7/15/2021 SeqNo: 2809135 Units: mg/L CaCO3

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

Total Alkalinity (as CaCO3) 78.88 20.00 80.00 0 98.6 90 110

Sample ID: mb-3 alk SampType: mblk TestCode: SM2320B: Alkalinity

Client ID: PBW Batch ID: R79813 RunNo: 79813

Prep Date: Analysis Date: 7/15/2021 SeqNo: 2809158 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: Ics-3 alk SampType: Ics TestCode: SM2320B: Alkalinity

Client ID: LCSW Batch ID: R79813 RunNo: 79813

Prep Date: Analysis Date: 7/15/2021 SeqNo: 2809159 Units: mg/L CaCO3

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

Total Alkalinity (as CaCO3) 79.24 20.00 80.00 0 99.0 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

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2106F12 23-Jul-21

WO#:

Client: Souder, Miller and Associates

Project: Aqua Moss Sunco # 1

Sample ID: 2106F12-001C DUP SampType: DUP TestCode: Specific Gravity

Client ID: S-18 (6/28/21) Batch ID: R79788 RunNo: 79788

Prep Date: Analysis Date: 7/14/2021 SeqNo: 2806734 Units:

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

Specific Gravity 1.014 0 0.0592 20

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

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2106F12 23-Jul-21

WO#:

Client: Souder, Miller and Associates

Project: Aqua Moss Sunco # 1

Sample ID: MB-61072 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 61072 RunNo: 79588

Prep Date: 7/1/2021 Analysis Date: 7/6/2021 SeqNo: 2798905 Units: mg/L

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

Total Dissolved Solids ND 20.0

Sample ID: LCS-61072 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 61072 RunNo: 79588

Prep Date: 7/1/2021 Analysis Date: 7/6/2021 SeqNo: 2798906 Units: mg/L

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

Total Dissolved Solids 1020 20.0 1000 0 102 80 120

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

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

	ouder, Miller and ssociates	Work Order Num	per: 2106F12		RcptNo: 1
Received By:	Juan Rojas	6/29/2021 8:00:00	AM	Hansay.	
Completed By:	Sean Livingston	6/29/2021 10:40:57	AM	Grandy Sol	,
Reviewed By:	n	Glzalz		SU1	201-
Chain of Custo	<u>dy</u>				
1. Is Chain of Cust	ody complete?		Yes 🗸	No 🗌	Not Present
2. How was the sar	mple delivered?		Courier		
Log In			Palaco		
3. Was an attempt	made to cool the sam	ples?	Yes 🗸	No 🗌	NA 🗌
4. Were all samples	received at a tempe	rature of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗀
5. Sample(s) in pro	per container(s)?		Yes 🗸	No 🗌	
6. Sufficient sample	volume for indicated	test(s)?	Yes 🗸	No 🗌	
7. Are samples (exc	ept VOA and ONG) p	roperly preserved?	Yes 🗸	No 🗆	1 (/2g/2)
8. Was preservative	added to bottles?		Yes 🗹	No Je	GL G/29/21 NA
9. Received at least	1 vial with headspace	e <1/4" for AQ VOA?	Yes 🗸	No 🗌	NA 🗌
0. Were any sample	e containers received	broken?	Yes	No 🗸	# of preserved
Does paperwork i (Note discrepanci	match bottle labels? les on chain of custod	y)	Yes 🗸	No 🗆	bottles checked for pH: 3 Z (20r >12 unless noted)
2. Are matrices corr	ectly identified on Cha	ain of Custody?	Yes 🗸	No 🗌	Adjusted? Yes
3. Is it clear what an	alyses were requeste	d?	Yes 🗸	No 🗌	,
	imes able to be met? omer for authorization))	Yes 🗸	No 🗆	Checked by: Sch G/29/21
pecial Handling	(if applicable)				
15. Was client notifie	d of all discrepancies	with this order?	Yes	No 🗌	NA 🗸
Person Not	ified:	Date:	A reasonable and a second strategy	THE RESIDENCE OF THE PARTY OF T	
By Whom:		Via:	eMail F	Phone Fax	In Person
Regarding:					
Client Instr	uctions:				The second secon
16. Additional remar	ks: added -	4.0 m HNO3 +0	sample	001E, ad	ded - 0.4ml HADs to Sar
		ciae proper	CO PH CC		
	Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By	Ser G/Zata
1 0.					And the second s
2 1.	5 Good				

Sunco Disposal #1 Quarterly Laboratory Analytical List Page 1

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

EPA HW No.	Contaminant	SW-846 Methods	Regulatory Leve (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	3021B 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	n-Cresol	8270D	200.0	
D025	p-Cresol	3270D	200.0	
D026	Cresol	8270D	200.0	
D027	1,4-Dichlorobanzenc	8021B 8121 8260B 8270D	7.5	
0028	1,2-Dichforoethane	8021B 8260B	0.5	
0029	1,1-Dichloraethylene	8021B 8260B	5.7	
0030	2,4-Dinitrotolueno	8091 8270D	5.13	
0032	Hexachlorobenzene	8121	0.13	
)033	Hexachlorobutadiene	8021B 8121 8260B	0.5	
0034	Hexachloroethane	8121	1.0	
0008	Lead	1311	0.0	
0009	Mercury	7470A 7471B	5.0 0.2	
1035	Methyl ethyl ketone	8015B 8260B	200.0	

Sunco Disposal#1 Quarterly Laboratory Analytical List

D036	Nitrobenzene	8091 8270D	2.0
D037	Pentrachlorophonoi	3041	100.0
D038	Pyridine	8260B 8270D	5.0

10010	Selenium	[311	II o
D011	Silver	1311	1.0
D039		3260B	5.0
D040	Trichloroethylone	3021B \$260B	0.5
D041	2,4,5-Trichlorophenol	8270D	100.0
D042	2,4,6-Trichlorophenol	3041A 3270D	2.0
D043	Vinyl chloride	8021B 8260B	0.2

If α , 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/t.

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, suifate, total dissolved solids, cation/anion balance, pll, and bromide) using the methods specified at 40 CFR 136.3.



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

April 2, 2021 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 2021

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 2021. 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-17, from the process line inside the pump building on March 5, 2021. 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-17) 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 and reduction potential.

A dilution due to matrix qualifier is indicated on the laboratory report for total dissolved solids, reactive cyanide, selenium, lead, and arsenic.

A low recovery for the laboratory control spike was reported for reactive cyanide.

Ms. Philana Thompson April 2, 2021 Page 2

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, P.G.

Project Geoscientist

Heather.Woods@soudermiller.com

eather M. Woods

Attachments:

Table 1. Summary of Field Screening and Laboratory Analytical Results Laboratory Analytical Reports (Hall 2103428)

Table 1: Summary of Field Screening and Laboratory Analytical Results

Sample ID	S			
Collection Date	3/5	/2021		
				Toxicity
	Field Laboratory			Characteristic
Analyte	Results	Results	Units	Concentrations
Arsenic		<0.50 D	mg/L	5.0 mg/L
Barium		<100	mg/L	100.0 mg/L
Benzene		11	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		<0.030	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	I	<0.13	mg/L	0.13 mg/L
Hexachlorobenzene	1	<0.13	mg/L	0.13 mg/L
Hexachlorobutadiene	1	<0.50	mg/L	0.5 mg/L
Hexachloroethane	-	<3.0	mg/L	3.0 mg/L
Lead		<0.50 D	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		<0.10 D	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	-	0.732 D	mg/L	
Reactive cyanide	1	<0.00500 D,S	mg/L	
Corrosivity by pH	1	8.47 H	s.u.	
Ignitability		DNF at 170	deg F	
Specific conductance	16,820	28,000	μmhos/cm	
Specific gravity	-	1.004		
ORP	7.4	85.9 H	mV	
Fluoride		<0.50	mg/L	
Calcium		77	mg/L	
Potassium		28	mg/L	
Magnesium		35	mg/L	
Bicarbonate (as CaCO3)		1,916	mg/L Ca	
Carbonate (as CaCO3)		188.8	mg/L Ca	
Chloride		6,300	mg/L	
Sulfate	-	85	mg/L	
Total dissolved solids	10,200	12,400 D	mg/L	
рН	8.59	8.39 H		
Bromide	-	20	mg/L	
Temperature	14.2		deg C	·

Notes: ORP - oxidation reduction potential

> mg/L - milligrams per liter s.u. - standard units

 $\mu mhos/cm$ - 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 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

March 26, 2021

Heather Woods Souder, Miller and Associates 401 W. Broadway

Farmington, NM 87401 TEL: (505) 325-5667 FAX (505) 327-1496

RE: Aqua Moss Sunco Disposal # 1 OrderNo.: 2103428

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/6/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109



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

Case Narrative

WO#: 2103428 Date: 3/26/2021

CLIENT: Souder, Miller and Associates **Project:** Aqua Moss Sunco Disposal # 1

Analytical Notes Regarding EPA Method 8270:

The Laboratory Control Spike (LCS) had a low recovery for 2,4-Dinitrotoluene. The MS/MSD had acceptable recoveries.

Analytical Report Lab Order 2103428

Client Sample ID: S-17 (3/5/21)

Date Reported: 3/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project: Aqua Moss Sunco Disposal # 1 **Collection Date:** 3/5/2021 5:45:00 PM

Lab ID: 2103428-001 **Matrix:** AQUEOUS **Received Date:** 3/6/2021 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8081: PESTICIDES TCLP						Analyst	: LSB
Chlordane	ND	0.030		mg/L	1	3/18/2021 2:33:13 PM	58634
Surr: Decachlorobiphenyl	89.3	41.7-129		%Rec	1	3/18/2021 2:33:13 PM	58634
Surr: Tetrachloro-m-xylene	1170	31.8-88.5	S	%Rec	1	3/18/2021 2:33:13 PM	58634
EPA 200.8: METALS						Analyst	: bcv
Arsenic	ND	0.50	D	mg/L	5	3/12/2021 1:59:17 PM	58669
Lead	ND	0.50	D	mg/L	5	3/12/2021 1:59:17 PM	58669
Selenium	ND	0.10	D	mg/L	5	3/12/2021 1:59:17 PM	58669
EPA METHOD 8270C TCLP						Analyst	: DAM
2-Methylphenol	ND	200		mg/L	1	3/18/2021 4:08:02 PM	58664
3+4-Methylphenol	ND	200		mg/L	1	3/18/2021 4:08:02 PM	58664
2,4-Dinitrotoluene	ND	0.13		mg/L	1	3/18/2021 4:08:02 PM	58664
Hexachlorobenzene	ND	0.13		mg/L	1	3/18/2021 4:08:02 PM	58664
Hexachlorobutadiene	ND	0.50		mg/L	1	3/18/2021 4:08:02 PM	58664
Hexachloroethane	ND	3.0		mg/L	1	3/18/2021 4:08:02 PM	58664
Nitrobenzene	ND	2.0		mg/L	1	3/18/2021 4:08:02 PM	58664
Pentachlorophenol	ND	100		mg/L	1	3/18/2021 4:08:02 PM	58664
Pyridine	ND	5.0		mg/L	1	3/18/2021 4:08:02 PM	58664
2,4,5-Trichlorophenol	ND	400		mg/L	1	3/18/2021 4:08:02 PM	58664
2,4,6-Trichlorophenol	ND	2.0		mg/L	1	3/18/2021 4:08:02 PM	58664
Cresols, Total	ND	200		mg/L	1	3/18/2021 4:08:02 PM	58664
Surr: 2-Fluorophenol	0	15-91.8	S	%Rec	1	3/18/2021 4:08:02 PM	58664
Surr: Phenol-d5	28.9	15-69.6		%Rec	1	3/18/2021 4:08:02 PM	58664
Surr: 2,4,6-Tribromophenol	63.2	15-115		%Rec	1	3/18/2021 4:08:02 PM	58664
Surr: Nitrobenzene-d5	45.5	15-109		%Rec	1	3/18/2021 4:08:02 PM	58664
Surr: 2-Fluorobiphenyl	42.1	15-96		%Rec	1	3/18/2021 4:08:02 PM	58664
Surr: 4-Terphenyl-d14	53.6	15-133		%Rec	1	3/18/2021 4:08:02 PM	58664
SPECIFIC GRAVITY						Analyst	: JRR
Specific Gravity	1.004	0			1	3/25/2021 2:18:00 PM	R76216
EPA METHOD 300.0: ANIONS						Analyst	CAS
Fluoride	ND	0.50		mg/L	5	3/10/2021 1:53:53 PM	R75861
Chloride	6300	500	*	mg/L	1E-	+ 3/20/2021 4:32:39 PM	R76100
Bromide	20	0.50		mg/L	5	3/10/2021 1:53:53 PM	R75861
Phosphorus, Orthophosphate (As P)	ND	2.5	Н	mg/L	5	3/10/2021 1:53:53 PM	R75861
Sulfate	85	2.5		mg/L	5	3/10/2021 1:53:53 PM	R75861
Nitrate+Nitrite as N	ND	10		mg/L	50	3/19/2021 2:30:29 AM	A76059
SM2510B: SPECIFIC CONDUCTANCE						Analyst	CAS
Conductivity	28000	100		µmhos/c	10	3/16/2021 3:47:50 PM	R76029

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

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

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Analytical Report Lab Order 2103428

Date Reported: 3/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates Client Sample ID: S-17 (3/5/21)

Project:Aqua Moss Sunco Disposal # 1Collection Date: 3/5/2021 5:45:00 PMLab ID:2103428-001Matrix: AQUEOUSReceived Date: 3/6/2021 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Ana	lyzed	Batch
SM2320B: ALKALINITY							Analyst:	CAS
Bicarbonate (As CaCO3)	1916	50.00		mg/L Ca	2.5	3/16/2021	3:52:22 PM	R76029
Carbonate (As CaCO3)	188.8	5.000		mg/L Ca	2.5	3/16/2021	3:52:22 PM	R76029
Total Alkalinity (as CaCO3)	2105	50.00		mg/L Ca	2.5	3/16/2021	3:52:22 PM	R76029
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst:	МН
Total Dissolved Solids	12400	200	*D	mg/L	1	3/12/2021	2:25:00 PM	58667
SM4500-H+B / 9040C: PH							Analyst:	CAS
рН	8.39		Н	pH units	1	3/12/2021	12:35:23 PM	R75940
EPA METHOD 200.7: METALS							Analyst:	ELS
Barium	ND	100	*	mg/L	5	3/12/2021	1:48:13 PM	58669
Cadmium	ND	1.0		mg/L	1	3/12/2021	1:46:52 PM	58669
Chromium	ND	5.0		mg/L	1	3/12/2021	1:46:52 PM	58669
Silver	ND	5.0		mg/L	1	3/12/2021	1:46:52 PM	58669
Sulfur	46	2.0		mg/L	1	3/12/2021	1:46:52 PM	58669
EPA METHOD 245.1: MERCURY							Analyst:	ags
Mercury	ND	0.020		mg/L	1	3/12/2021	2:40:57 PM	58690
EPA METHOD 6010B: DISSOLVED METALS							Analyst:	JLF
Calcium	77	5.0		mg/L	5	3/18/2021	5:38:38 PM	A76078
Magnesium	35	5.0		mg/L	5	3/18/2021	5:38:38 PM	A76078
Potassium	28	5.0		mg/L	5	3/18/2021	5:38:38 PM	A76078
Sodium	4700	50		mg/L	50	3/18/2021	5:47:27 PM	A76078
TCLP VOLATILES BY 8260B							Analyst:	JMR
Benzene	11	0.50		mg/L	200	3/17/2021	3:35:48 AM	D75990
1,2-Dichloroethane (EDC)	ND	0.50		mg/L	200	3/17/2021	3:35:48 AM	D75990
2-Butanone	ND	200		mg/L		3/17/2021		D75990
Carbon Tetrachloride	ND	0.50		mg/L	200	3/17/2021	3:35:48 AM	D75990
Chloroform	ND	6.0		mg/L	200	3/17/2021	3:35:48 AM	D75990
1,4-Dichlorobenzene	ND	7.5		mg/L	200	3/17/2021	3:35:48 AM	D75990
1,1-Dichloroethene	ND	0.70		mg/L	200	3/17/2021	3:35:48 AM	D75990
Tetrachloroethene (PCE)	ND	0.70		mg/L	200	3/17/2021	3:35:48 AM	D75990
Trichloroethene (TCE)	ND	0.50		mg/L	200	3/17/2021	3:35:48 AM	D75990
Vinyl chloride	ND	0.20		mg/L	200	3/17/2021	3:35:48 AM	D75990
Chlorobenzene	ND	100		mg/L		3/17/2021		D75990
Surr: 1,2-Dichloroethane-d4	87.5	70-130		%Rec		3/17/2021		D75990
Surr: 4-Bromofluorobenzene	101	70-130		%Rec		3/17/2021		D75990
Surr: Dibromofluoromethane	89.6	70-130		%Rec		3/17/2021		D75990
Surr: Toluene-d8	102	70-130		%Rec	200	3/17/2021	3:35:48 AM	D75990

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

Qualifiers:

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

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

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Pace Analytical® ANALYTICAL REPORT

March 17, 2021



















Hall Environmental Analysis Laboratory

L1325250 Sample Delivery Group: Samples Received: 03/10/2021

Project Number:

Description:

Report To: Jackie Bolte

4901 Hawkins NE

Albuquerque, NM 87109

Entire Report Reviewed By: Jah V Houkins

John Hawkins

Project Manager Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122

615-758-5858

800-767-5859

www.pacenational.com

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SAMPLE SUMMARY

2103428-001F S-17 (3/5/21) L1325250-01 WW			Collected by	Collected date/time 03/05/2117:45	Received da 03/10/21 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 4500 CN E-2011	WG1633983	1	03/12/21 20:01	03/14/21 04:10	SDL	Mt. Juliet, TN
Wet Chemistry by Method 4500H+ B-2011	WG1632660	1	03/11/21 01:19	03/11/21 01:19	WOS	Mt. Juliet, TN
Wet Chemistry by Method 9034-9030B	WG1631392	1	03/11/21 19:21	03/11/21 19:21	CO	Mt. Juliet, TN
Wet Chemistry by Method D93/1010A	WG1635305	1	03/16/21 19:00	03/16/21 19:00	LRP	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	
2103428-001G S-17 (3/5/21) L1325250-02 GW				03/05/21 17:45	03/10/21 09:	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Wet Chemistry by Method 2580	WG1632606	1	03/11/21 15:00	03/11/21 15:00	SRG	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 9012B. All Reactive Sulfide results reported in the attached report were determined as totals using method 9034/9030B.

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SAMPLE RESULTS - 01

L1325250

Collected date/time: 03/05/21 17:45

Wet Chemistry by Method 4500 CN E-2011

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Reactive Cyanide	ND	J3 J6	0.00500	1	03/14/2021 04:10	WG1633983



Wet Chemistry by Method 4500H+ B-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	Su			date / time	
Corrosivity by pH	8.47	<u>T8</u>	1	03/11/2021 01:19	WG1632660



Sample Narrative:

L1325250-01 WG1632660: 8.47 at 19.8C



Wet Chemistry by Method 9034-9030B

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Reactive Sulfide	0.732	<u>J6</u>	0.0500	1	03/11/2021 19:21	WG1631392



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ΆΙ

Wet Chemistry by Method D93/1010A

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	deg F			date / time	
Flashpoint	DNF at 170		1	03/16/2021 19:00	WG1635305



SAMPLE RESULTS - 02

L1325250

Wet Chemistry by Method 2580

Collected date/time: 03/05/21 17:45

-	Result	Qualifier	Dilution	Analysis	Batch
Analyte	mV			date / time	
ORP	85 9	T8	1	03/11/2021 15:00	WG1632606



















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Wet Chemistry by Method 2580

L1325250-02

L1323617-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1323617-01	03/11/21 15:00 • (DUP) R	3629735-3	03/11/21 15:0	0
	Original Result	DUP Result	Dilution	DUP

	Original Result	DUP Result	Dilution	DUP Diff	DUP Qualifier	DUP Diff Limits
Analyte	mV	mV		mV		mV
ORP	217	212	1	5.30		20





L1323617-04 Original Sample (OS) • Duplicate (DUP)

	(OS) L1323617-04	03/11/21 15:00 •	(DUP) R3629735-4	03/11/21 15:00
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	Original Result	DUP Result	Dilution	DUP Diff	DUP Qualifier	DUP Diff Limits
Analyte	mV	mV		mV		mV
ORP	224	223	1	0.900		20





L1323617-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1323617-05 03/11/21	15:00 • (DOP) R	(3629/35-5 C	13/11/21 15:	00		
	Original Result	DUP Result	Dilution	DUP Diff	DUP Qualifier	DUP Diff Limits
Analyte	mV	mV		mV		mV
ORP	224	227	1	3.20		20



L1325250-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1325250-02	03/11/21 15:00 •	(DUP) R3629735-6	03/11/21 15:00

(03) [1323230-02 03/11/21	15.00 (DOI)	113023733-0)3/11/21 13	.00		
	Original Result	DUP Result	Dilution	DUP Diff	DUP Qualifier	DUP Diff Limits
Analyte	mV	mV		mV		mV
ORP	85.9	89.3	1	3.40		20



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

(LCS) R3629735-1 03/11/21 15:00 • (LCSD) R3629735-2 03/11/21 15:00										
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	Diff	Diff Limits
Analyte	mV	mV	mV	%	%	%			mV	mV
ORP	106	106	105	99.8	98.6	86.0-105			1.30	20

DATE/TIME:

03/17/21 10:31

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Wet Chemistry by Method 4500 CN E-2011

0.00180

0.00500

L1325250-01

Method Blank (MB)

Reactive Cyanide

(MB) R3630469-1 03/14/2	1 04:03			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l

— ¹Ср

²Tc





(OS) L1325471-05 03/14/21 04:25 • (DUP) R3630469-7 03/14/21 04:28

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/I	mg/l		%		%
Reactive Cvanide	0.0208	ND	1	200	P1	20







Laboratory Control Sample (LCS)

(LCS) R3630469-2 03/14/21 04:04

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Reactive Cyanide	0.100	0.110	110	90 0-117	





PAGE:

8 of 14



(OS) L1325250-01 03/14/21 04:10 • (MS) R3630469-3 03/14/21 04:11 • (MSD) R3630469-4 03/14/21 04:12

(,		Original Result		•	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Reactive Cyanide	0.100	ND	0.0244	0.0141	22.2	11.9	1	90.0-110	<u>J6</u>	<u>J3 J6</u>	53.5	20

L1325471-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1325471-01 03/14/21 04:20 • (MS) R3630469-5 03/14/21 04:21 • (MSD) R3630469-6 03/14/21 04:22

(03) 21323471 01 03/	` '	Original Result		MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Reactive Cyanide	0.100	0.131	0.142	0.190	11.0	59.0	1	90.0-110	J6	J3 J6	28.9	20

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L1325250-01

Wet Chemistry by Method 4500H+ B-2011

Laboratory Control Sample (LCS) (LCS) R3629499-1 03/11/21 01:19

Sample Narrative: LCS: 9.99 at 21.6C

, ,	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	SU	SU	%	%	
Corrosivity by pH	10.0	9.99	99.9	99.0-101	















mg/l

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Wet Chemistry by Method 9034-9030B

QUALITY CONTROL SUMMARY

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L1325250-01

Method Blank (MB)

(MB) R3629878-1 03/11/21 19:12

Analyte

Reactive Sulfide

MB Result MB Qualifier MB MDL mg/l

0.0250

MB RDL

mg/l 0.0500

Ss

[†]Cn

Laboratory Control Sample (LCS)

(LCS) R3629878-2 03/11/21 19:12

Spike Amount LCS Result LCS Rec. Rec. Limits LCS Qualifier % mg/l % Analyte mg/l Reactive Sulfide 0.500 0.502 100

85.0-115



GI

L1325250-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1325250-01 03/11/21 19:21 • (MS) R3629878-4 03/11/21 19:22 • (MSD) R3629878-5 03/11/21 19:22

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Reactive Sulfide	1.00	0.732	1.28	1.22	55.2	48.6	1	80.0-120	J6	J6	5.28	20



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Wet Chemistry by Method D93/1010A

L1325250-01

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

(LCS) R3631420-1 03/16/21 19:00 • (LCSD) R3631420-2 03/16/21 19:00

	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	125	127	99.2	101	96.0-104			1.59	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

Appreviations and	d 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
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
T8	Sample(s) received past/too close to holding time expiration.





















Pace Analy	utical National	12065 Lebanon	Rd Mount Julie	t TN 37122
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Kentucky² 16 South Dakota n/a Louisiana Al30792 Tennessee¹4 2006 Louisiana LA018 Texas T104704245-20-18 Maine TN00003 Texas 5 LAB0152 Maryland 324 Utah TN00032021-11 Massachusetts M-TN003 Vermont VT2006 Michigan 9958 Virginia 110033 Minnesota 047-999-395 Washington C847				
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A2LA – ISO 17025 ⁵ 1461.02 DOD 1461.01	Montana	CERT0086	Wyoming	A2LA
	A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
Canada 1461.01 USDA P330-15-00234	A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
	Canada	1461.01	USDA	P330-15-00234



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

TN00003

EPA-Crypto



















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

Received by OCD: 8/17/2021 4:36:51 PM HALL ENVIRONMENTAL ANALYSIS LABORATORY

CHAIN OF CUSTODY RECORD

AGE: 0F: 1

F082

Hall Environmental Analysis Laboratory 4901 Hawkins NE

> Albuquerque, NM 87109 TEL: 505-345-3975

FAX: 505-345-4107 Website: clients.hallenvironmental.com

					A100 A100 A100 A100 A100 A100 A100 A100			
SUB CO	NTRATOR: Pace T	'N COMPANY:	PACE TN		PHONE:	(800) 767-5859	FAX:	(615) 758-5859
ADDRE	12065	Lebanon Rd			ACCOUNT #:		EMAIL:	
CITY, S	Mt. Ju	liet, TN 37122						
ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINER	ANALYTICA	L/325250
1	2103428-001F	S-17 (3/5/21)	500HDPE	Aqueous	3/5/2021 5.45.00 PM	3 RCI	4	-01
2	2103428-001G	S-17 (3/5/21)	125HDP	Aqueous	3/5/2021 5:45:00 PM	1 ORP	-	-cr

Fedex: 1749 9998 4241

Correct bottles used:	Checklist If Applicable VOA Zero Headspace: Y_N Pres.Correct/Check: Y_N	
RAD Screen <0.5 mR/hr: N		

Please include the LAB ID and	THE RESERVE TO SHARE THE PARTY OF THE PARTY	AMPLE ID on	all final reports. Please e-mail results	s to lab@halle	environmental.com	m. Please return all coolers and blue ice. Thank you.
			•	1) ,={	
Relinquished By:	Date: 3/9/2021			SILVIA		REPORT TRANSMITTAL DESIRED: HARDCOPY (extra cost)
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	FOR LAB USE ONLY
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Temp of samples C Attempt to Cool?
TAT. Ston	dard	RUSH	Next BD 2nd BD	3rd E	D 🗆	Temp of samples At KH Attempt to Cool? 2.5
TAT: Stan	Can Company	RUSH				Comments: Coss)

Hall Environmental Analysis Laboratory, Inc.

WO#:

2103428 26-Mar-21

Client: Souder, Miller and Associates **Project:** Aqua Moss Sunco Disposal # 1

Sample ID: MB-58669 SampType: MBLK TestCode: EPA Method 200.7: Metals Client ID: PBW Batch ID: 58669 RunNo: 75907

Prep Date: 3/11/2021 Analysis Date: 3/12/2021 SeqNo: 2685796 Units: mg/L

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

Barium ND 0.0030 Cadmium ND 0.0020 Chromium ND 0.0060 Silver ND 0.0050

Sample ID: LLLCS-58669 SampType: LCSLL TestCode: EPA Method 200.7: Metals Client ID: **BatchQC** Batch ID: 58669 RunNo: 75907 Prep Date: 3/11/2021 Analysis Date: 3/12/2021 SeqNo: 2685798 Units: mg/L SPK value SPK Ref Val %REC %RPD **RPDLimit** Qual Analyte Result POI LowLimit HighLimit Barium ND 0.0030 0.002000 0 65.7 50 150 0 ND 75.5 50 150 Cadmium 0.0020 0.002000 Chromium ND 0.0060 0.006000 0 85.6 50 150 0 98.1 Silver ND 0.0050 0.005000 50 150

Sample ID: LCS-58669 TestCode: EPA Method 200.7: Metals SampType: LCS Client ID: LCSW Batch ID: 58669 RunNo: 75907 Prep Date: 3/11/2021 Analysis Date: 3/12/2021 SeqNo: 2685800 Units: mg/L SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual 0.50 0.0030 0.5000 0 99.5 85 115 Barium Cadmium 0.50 0.0020 0.5000 0 99.4 85 115 Chromium 0.5000 0 96.9 85 0.48 0.0060 115 Silver 0.090 0.0050 0.1000 0 90.5 85 115

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

26-Mar-21

2103428

WO#:

Client: Souder, Miller and Associates

Project: Aqua Moss Sunco Disposal # 1

Sample ID: MB-58669 SampType: MBLK TestCode: EPA 200.8: Metals

Client ID: PBW Batch ID: 58669 RunNo: 75932

Prep Date: 3/11/2021 Analysis Date: 3/12/2021 SeqNo: 2686969 Units: mg/L

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

 Arsenic
 ND
 0.0010

 Lead
 ND
 0.00050

 Selenium
 ND
 0.0010

Sample ID: MSLLLCS-58669 SampType: LCSLL TestCode: EPA 200.8: Metals

Client ID: BatchQC Batch ID: 58669 RunNo: 75932

Prep Date: 3/11/2021 Analysis Date: 3/12/2021 SeqNo: 2686970 Units: mg/L

Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.0010 0 95.8 50 Arsenic ND 0.001000 150 Lead ND 0.00050 0.0005000 0 98.4 50 150 0 0.0013 0.0010 0.001000 133 50 150 Selenium

Sample ID: MSLCS-58669 SampType: LCS TestCode: EPA 200.8: Metals

Client ID: LCSW Batch ID: 58669 RunNo: 75932

Prep Date: 3/11/2021 Analysis Date: 3/12/2021 SeqNo: 2686971 Units: mg/L

SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit Qual 0.025 0.0010 0.02500 0 99.4 85 115 Arsenic Lead 0.012 0.00050 0.01250 0 99.4 85 115 0 Selenium 0.024 0.0010 0.02500 95.2 85 115

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

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

26-Mar-21

2103428

WO#:

Client: Souder, Miller and Associates

Project: Aqua Moss Sunco Disposal # 1

Sample ID: MB-58690 SampType: MBLK TestCode: EPA Method 245.1: Mercury

Client ID: PBW Batch ID: 58690 RunNo: 75933

Prep Date: 3/12/2021 Analysis Date: 3/12/2021 SeqNo: 2687046 Units: mg/L

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

Mercury ND 0.00020

Sample ID: LLLCS-58690 SampType: LCSLL TestCode: EPA Method 245.1: Mercury

Client ID: BatchQC Batch ID: 58690 RunNo: 75933

Prep Date: 3/12/2021 Analysis Date: 3/12/2021 SeqNo: 2687047 Units: mg/L

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

Mercury ND 0.00020 0.0001500 0 88.7 50 150

Sample ID: LCS-58690 SampType: LCS TestCode: EPA Method 245.1: Mercury

Client ID: LCSW Batch ID: 58690 RunNo: 75933

Prep Date: 3/12/2021 Analysis Date: 3/12/2021 SeqNo: 2687048 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

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

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2103428

26-Mar-21

Client: Souder, Miller and Associates **Project:** Aqua Moss Sunco Disposal # 1

Sample ID: MB SampType: mblk TestCode: EPA Method 300.0: Anions Client ID: PBW Batch ID: R75861 RunNo: 75861 Prep Date: Analysis Date: 3/10/2021 SeqNo: 2684104 Units: mg/L SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit Qual Fluoride ND 0.10 Bromide ND 0.10 Phosphorus, Orthophosphate (As P ND 0.50 Sulfate ND 0.50

Sample ID: LCS SampType: Ics TestCode: EPA Method 300.0: Anions Client ID: LCSW Batch ID: R75861 RunNo: 75861 Prep Date: Analysis Date: 3/10/2021 SeqNo: 2684105 Units: mg/L SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result POI I owl imit HighLimit Qual Fluoride 0.52 0.10 0.5000 0 105 90 110 0 107 2.7 0.10 2.500 90 110 Bromide Phosphorus, Orthophosphate (As P 4.8 0.50 5.000 0 96.3 90 110 0 99.0 Sulfate 9.9 0.50 10.00 90 110

Sample ID: MB SampType: mblk TestCode: EPA Method 300.0: Anions Client ID: PBW Batch ID: A76059 RunNo: 76059 Prep Date: Analysis Date: 3/18/2021 SeqNo: 2692455 Units: mg/L SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual

Nitrate+Nitrite as N ND 0.20

Sample ID: LCS SampType: Ics TestCode: EPA Method 300.0: Anions Client ID: LCSW Batch ID: A76059 RunNo: 76059 Prep Date: Analysis Date: 3/18/2021 SeqNo: 2692456 Units: mg/L PQL HighLimit **RPDLimit** Result SPK value SPK Ref Val %REC LowLimit %RPD Qual Analyte Nitrate+Nitrite as N 0.20 3.500 96.5 110

Sample ID: MB SampType: mblk TestCode: EPA Method 300.0: Anions Client ID: PBW Batch ID: **R76100** RunNo: 76100 Analysis Date: 3/20/2021 Prep Date: SeqNo: 2694279 Units: mg/L SPK value SPK Ref Val %REC LowLimit **RPDLimit** Analyte Result **PQL** HighLimit %RPD Qual

ND 0.50 Chloride

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Project:

Hall Environmental Analysis Laboratory, Inc.

Aqua Moss Sunco Disposal # 1

WO#: **2103428 26-Mar-21**

Client: Souder, Miller and Associates

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

Client ID: LCSW Batch ID: R76100 RunNo: 76100

Prep Date: Analysis Date: 3/20/2021 SeqNo: 2694280 Units: mg/L

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

Chloride 4.7 0.50 5.000 0 94.6 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

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2103428**

26-Mar-21

Client: Souder, Miller and Associates

Project: Aqua Moss Sunco Disposal # 1

. 1								
Sample ID: MB-58634	SampType	e: MBLK	Test	Code: EPA Me	ethod 8081: Pestici	des TCLP		
Client ID: PBW	Batch ID	58634	R	tunNo: 76098				
Prep Date: 3/10/2021	Analysis Date	e: 3/18/2021	S	eqNo: 269421	8 Units: mg/L			
Analyte	Result F	PQL SPK value	SPK Ref Val	%REC Lowl	Limit HighLimit	%RPD	RPDLimit	Qual
Chlordane		.030						
Surr: Decachlorobiphenyl	0.0021	0.002500		85.2	41.7 129			
Surr: Tetrachloro-m-xylene	0.0015	0.002500		61.6	31.8 88.5			
Sample ID: LCS-58634	SampType	e: LCS	Test	Code: EPA Me	ethod 8081: Pestici	des TCLP		
Client ID: LCSW	Batch ID	58634	R	tunNo: 76098				
Prep Date: 3/10/2021	Analysis Date	e: 3/18/2021	S	eqNo: 269421	9 Units: %Rec	:		
Analyte	Result F	PQL SPK value	SPK Ref Val	%REC Lowl	Limit HighLimit	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	0.0021	0.002500		83.6	41.7 129			
Surr: Tetrachloro-m-xylene	0.0015	0.002500		58.2	31.8 88.5			
Sample ID: LCS-58634	SampType	e: LCS	Test	Code: EPA Me	ethod 8081: Pestici	des TCLP		
Client ID: LCSW	Batch ID	58634	R	tunNo: 76098				
Prep Date: 3/10/2021	Analysis Date	e: 3/18/2021	S	eqNo: 269422	0 Units: %Rec	:		
Analyte	Result F	PQL SPK value	SPK Ref Val	%REC Lowl	Limit HighLimit	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	0.0021	0.002500		85.6	41.7 129			
Surr: Tetrachloro-m-xylene	0.0015	0.002500		59.4	31.8 88.5			
Sample ID: MB-58634	SampType	e: MBLK	Test	Code: EPA Me	ethod 8081: Pestici	des TCLP		
Client ID: PBW	Batch ID	58634	R	tunNo: 76098				
Prep Date: 3/10/2021	Analysis Date	e: 3/18/2021	S	eqNo: 269422	1 Units: mg/L			
Analyte	Result F	PQL SPK value	SPK Ref Val	%REC Lowl	Limit HighLimit	%RPD	RPDLimit	Qual
Chlordane	ND 0	.030						
Surr: Decachlorobiphenyl	0.0021	0.002500		83.5	41.7 129			
Surr: Tetrachloro-m-xylene	0.0016	0.002500		63.6	31.8 88.5			
Sample ID: 2103428-001BMS	SampType	e: MS	Test	Code: EPA Me	ethod 8081: Pestici	des TCLP		
Client ID: S-17 (3/5/21)	Batch ID	58634	R	unNo: 76098				
Prep Date: 3/10/2021	Analysis Date	e: 3/18/2021	S	eqNo: 269422	3 Units: %Rec	:		
Analyte	Result F	PQL SPK value	SPK Ref Val	%REC Lowl	Limit HighLimit	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	0.0020	0.002500		79.6	41.7 129			
Surr: Tetrachloro-m-xylene	0.021	0.002500		853	31.8 88.5			S

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analysis Laboratory, Inc.

26-Mar-21

2103428

WO#:

Client: Souder, Miller and Associates

Project: Aqua Moss Sunco Disposal # 1

Sample ID: 2103428-001BMSD SampType: MSD TestCode: EPA Method 8081: Pesticides TCLP Client ID: S-17 (3/5/21) Batch ID: 58634 RunNo: 76098 Prep Date: 3/10/2021 Analysis Date: 3/18/2021 SeqNo: 2694224 Units: %Rec SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result LowLimit Surr: Decachlorobiphenyl 0.0022 0.002500 89.9 41.7 129 0 0 Surr: Tetrachloro-m-xylene 0.024 0.002500 968 31.8 88.5 0 0 S

Sample ID: MDL 58634 TestCode: EPA Method 8081: Pesticides TCLP SampType: LCS RunNo: 76098 Client ID: LCSW Batch ID: 58634 Prep Date: 3/10/2021 Analysis Date: 3/18/2021 SeqNo: 2694225 Units: %Rec %RPD **RPDLimit** Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit Qual Surr: Decachlorobiphenyl 0.0024 0.002500 95.5 41.7 129 0.0017 Surr: Tetrachloro-m-xylene 0.002500 67.8 31.8 88.5

Sample ID: MDL 58634 SampType: LCS TestCode: EPA Method 8081: Pesticides TCLP Client ID: LCSW Batch ID: 58634 RunNo: 76098 Prep Date: 3/10/2021 Analysis Date: 3/18/2021 SeqNo: 2694226 Units: %Rec %RPD PQL SPK value SPK Ref Val %REC HighLimit **RPDLimit** Qual Analyte Result LowLimit Surr: Decachlorobiphenyl 0.0024 0.002500 94.8 41.7 129

69.2

31.8

88.5

0.002500

0.0017

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

Surr: Tetrachloro-m-xylene

S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

WO#: **2103428**

26-Mar-21

Client: Souder, Miller and Associates

Project: Aqua Moss Sunco Disposal # 1

Sample ID: 100ng lcs	SampT	ype: LC	s	Tes	tCode: T 0	CLP Volatil	es by 8260B			
Client ID: LCSW	Batcl	h ID: D7	5990	F	RunNo: 7	5990				
Prep Date:	Analysis D	Date: 3/	16/2021	S	SeqNo: 2	689517	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.018	0.010	0.02000	0	88.4	70	130			
1,1-Dichloroethene	0.016	0.010	0.02000	0	80.4	70	130			
Trichloroethene (TCE)	0.015	0.010	0.02000	0	77.4	70	130			
Chlorobenzene	0.019	0.010	0.02000	0	95.3	70	130			
Surr: 1,2-Dichloroethane-d4	0.0095		0.01000		94.9	70	130			
Surr: 4-Bromofluorobenzene	0.0093		0.01000		92.6	70	130			
Surr: Dibromofluoromethane	0.0092		0.01000		91.8	70	130			
Surr: Toluene-d8	0.010		0.01000		102	70	130			

TestCode: TCLP Volatiles by 8260B

'	•						•				
Client ID: PBW	Batcl	h ID: D7	5990	F	RunNo: 7	5990					
Prep Date:	Analysis D	Date: 3/	16/2021	9	SeqNo: 2	689518	Units: mg/L	ng/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	0.0096		0.01000		95.8	70	130				
Surr: 4-Bromofluorobenzene	0.0094		0.01000		93.8	70	130				
Surr: Dibromofluoromethane	0.0092		0.01000		92.4	70	130				
Surr: Toluene-d8	0.010		0.01000		105	70	130				

Qualifiers:

Sample ID: mb1

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2103428 26-Mar-21**

Client: Souder, Miller and Associates

Project: Aqua Moss Sunco Disposal # 1

Sample ID: mb-58664	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8270C TCLP			
Client ID: PBW	Batch	n ID: 58 0	664	F	RunNo: 7 0	6057				
Prep Date: 3/11/2021	Analysis D	ate: 3/	18/2021	S	SeqNo: 20	692330	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	0.083		0.2000		41.7	15	91.8			
Surr: Phenol-d5	0.066		0.2000		33.1	15	69.6			
Surr: 2,4,6-Tribromophenol	0.092		0.2000		46.1	15	115			
Surr: Nitrobenzene-d5	0.049		0.1000		49.3	15	109			
Surr: 2-Fluorobiphenyl	0.048		0.1000		47.9	15	96			
Surr: 4-Terphenyl-d14	0.059		0.1000		58.6	15	133			

Sample ID: Ics-58664	Samp	Type: LC	S	Tes	tCode: El	PA Method	8270C TCLP			
Client ID: LCSW	Bato	h ID: 580	664	F	RunNo: 7	6057				
Prep Date: 3/11/2021	Analysis	Date: 3/	18/2021	5	SeqNo: 2	692331	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	0.050	0.0010	0.1000	0	49.7	33.8	121			
3+4-Methylphenol	0.097	0.0010	0.2000	0	48.4	33.6	109			
2,4-Dinitrotoluene	0.039	0.0010	0.1000	0	39.5	50.4	124			S
Hexachlorobenzene	0.070	0.0010	0.1000	0	69.5	50.1	120			
Hexachlorobutadiene	0.044	0.0010	0.1000	0	44.3	16.1	103			
Hexachloroethane	0.044	0.0010	0.1000	0	44.2	15	94.2			
Nitrobenzene	0.057	0.0010	0.1000	0	57.0	32.4	125			
Pentachlorophenol	0.057	0.0010	0.1000	0	57.1	44.6	114			
Pyridine	0.044	0.0010	0.1000	0	44.3	15	67			
2,4,5-Trichlorophenol	0.052	0.0010	0.1000	0	52.2	49.4	118			
2,4,6-Trichlorophenol	0.056	0.0010	0.1000	0	56.4	50.3	116			
Cresols, Total	0.15	0.0010	0.3000	0	49.1	33.8	109			
Surr: 2-Fluorophenol	0.091		0.2000		45.3	15	91.8			
Surr: Phenol-d5	0.069		0.2000		34.6	15	69.6			
Surr: 2,4,6-Tribromophenol	0.10		0.2000		51.5	15	115			

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

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

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Hall Environmental Analysis Laboratory, Inc.

SampType: MS

WO#: **2103428 26-Mar-21**

Client: Souder, Miller and Associates

Project: Aqua Moss Sunco Disposal # 1

Sample ID: 2103428-001bms

Sample ID: Ics-58664	SampT	ype: LC	s	Tes	tCode: El	PA Method	8270C TCLP			
Client ID: LCSW	Batch	ID: 58	664	F	RunNo: 7	6057				
Prep Date: 3/11/2021	Analysis D	ate: 3/	18/2021	8	SeqNo: 2	692331	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Nitrobenzene-d5	0.054		0.1000		54.0	15	109			
Surr: 2-Fluorobiphenyl	0.055		0.1000		55.3	15	96			
Surr: 4-Terphenyl-d14	0.072		0.1000		72.4	15	133			

TestCode: EPA Method 8270C TCLP

Client ID: S-17 (3/5/21)	Bato	h ID: 580	664	F	RunNo: 7	6057				
Prep Date: 3/11/2021	Analysis I	Date: 3/	18/2021	S	SeqNo: 2	692333	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	0.055	0.0010	0.1000	0.005184	49.5	30.5	98.2			
3+4-Methylphenol	0.10	0.0010	0.2000	0.003756	48.8	27.4	98.6			
2,4-Dinitrotoluene	0.060	0.0010	0.1000	0	59.5	34.3	87.4			
Hexachlorobenzene	0.073	0.0010	0.1000	0	73.5	36.5	100			
Hexachlorobutadiene	0.048	0.0010	0.1000	0	47.8	15	108			
Hexachloroethane	0.043	0.0010	0.1000	0	42.8	15	90.7			
Nitrobenzene	0.053	0.0010	0.1000	0	52.7	39	100			
Pentachlorophenol	0.074	0.0010	0.1000	0	74.5	15	97.5			
Pyridine	0.046	0.0010	0.1000	0.003571	42.5	15	65.8			
2,4,5-Trichlorophenol	0.084	0.0010	0.1000	0	83.9	36.1	109			
2,4,6-Trichlorophenol	0.079	0.0010	0.1000	0	78.7	37.8	104			
Cresols, Total	0.16	0.0010	0.3000	0.01743	49.1	27.1	99.8			
Surr: 2-Fluorophenol	0.079		0.2000		39.3	15	91.8			
Surr: Phenol-d5	0.064		0.2000		32.1	15	69.6			
Surr: 2,4,6-Tribromophenol	0.18		0.2000		89.5	15	115			
Surr: Nitrobenzene-d5	0.049		0.1000		49.4	15	109			
Surr: 2-Fluorobiphenyl	0.051		0.1000		51.1	15	96			
Surr: 4-Terphenyl-d14	0.070		0.1000		70.0	15	133			

Sample ID: 2103428-001bmsd	l Samp	Туре: МЅ	SD D	Tes	tCode: El	PA Method	8270C TCLP			
Client ID: S-17 (3/5/21)	Bato	h ID: 586	664	F	RunNo: 70	6057				
Prep Date: 3/11/2021	1,					692334				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	0.048	0.0010	0.1000	0.005184	42.8	30.5	98.2	13.1	44.3	
3+4-Methylphenol	0.084	0.0010	0.2000	0.003756	40.1	27.4	98.6	18.7	50	
2,4-Dinitrotoluene	0.045	0.0010	0.1000	0	45.3	34.3	87.4	27.2	45.1	
Hexachlorobenzene	0.061	0.0010	0.1000	0	61.3	36.5	100	18.0	47.2	
Hexachlorobutadiene	0.039	0.0010	0.1000	0	39.5	15	108	18.9	43.4	
Hexachloroethane	0.038	0.0010	0.1000	0	37.9	15	90.7	12.0	39.2	
Nitrobenzene	0.047	0.0010	0.1000	0	46.6	39	100	12.3	42.1	

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2103428 26-Mar-21**

Client: Souder, Miller and Associates

Project: Aqua Moss Sunco Disposal # 1

Sample ID: 2103428-001bmsd	1 77						8270C TCLP			
Client ID: S-17 (3/5/21)	Bato	h ID: 586	664	RunNo: 76057						
Prep Date: 3/11/2021	18/2021	S	SeqNo: 20	692334	Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Pentachlorophenol	0.062	0.0010	0.1000	0	62.1	15	97.5	18.2	50	
Pyridine	0.039	0.0010	0.1000	0.003571	35.7	15	65.8	15.9	50	
2,4,5-Trichlorophenol	0.065	0.0010	0.1000	0	64.7	36.1	109	25.8	49.7	
2,4,6-Trichlorophenol	0.064	0.0010	0.1000	0	64.2	37.8	104	20.3	47	
Cresols, Total	0.14	0.0010	0.3000	0.01743	40.7	27.1	99.8	16.6	27.4	
Surr: 2-Fluorophenol	0		0.2000		0	15	91.8	0	0	S
Surr: Phenol-d5	0.053		0.2000		26.6	15	69.6	0	0	
Surr: 2,4,6-Tribromophenol	0.14		0.2000		71.6	15	115	0	0	
Surr: Nitrobenzene-d5	0.043		0.1000		42.7	15	109	0	0	
Surr: 2-Fluorobiphenyl	0.042		0.1000		42.0	15	96	0	0	
Surr: 4-Terphenyl-d14	0.057		0.1000		57.1	15	133	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 range due to dilution or matrix

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2103428 26-Mar-21**

Client: Souder, Miller and Associates

Project: Aqua Moss Sunco Disposal # 1

Sample ID: Ics-1 99.5uS eC SampType: Ics TestCode: SM2510B: Specific Conductance

Client ID: LCSW Batch ID: R76029 RunNo: 76029

Prep Date: Analysis Date: 3/16/2021 SeqNo: 2691352 Units: µmhos/cm

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

Conductivity 100 10 99.50 0 101 85 115

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

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

26-Mar-21

2103428

WO#:

Client: Souder, Miller and Associates **Project:** Aqua Moss Sunco Disposal # 1

Sample ID: MB SampType: MBLK TestCode: EPA Method 6010B: Dissolved Metals

Client ID: PBW Batch ID: A76078 RunNo: 76078

Prep Date: Analysis Date: 3/18/2021 SeqNo: 2693041 Units: mg/L

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

Calcium ND 1.0 Magnesium ND 1.0 ND Potassium 1.0 Sodium ND 1.0

Sample ID: LCS TestCode: EPA Method 6010B: Dissolved Metals SampType: LCS

Client ID: LCSW Batch ID: A76078 RunNo: 76078

Prep Date: Analysis Date: 3/18/2021 SeqNo: 2693043 Units: mg/L

POI SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Calcium 49 1.0 50.00 0 98.5 80 120 51 0 101 50.00 80 120 Magnesium 1.0 Potassium 50 1.0 50.00 0 99.4 80 120 49 0 97.8 120 Sodium 1.0 50.00 80

Sample ID: 2103428-001DMS SampType: MS TestCode: EPA Method 6010B: Dissolved Metals

Client ID: S-17 (3/5/21) Batch ID: A76078 RunNo: 76078

Prep Date: Analysis Date: 3/18/2021 SeqNo: 2693045 Units: mg/L %REC HighLimit %RPD **RPDLimit** Analyte Result PQL SPK value SPK Ref Val LowLimit Qual 330 5.0 250.0 77.36 101 75 125 Calcium Magnesium 290 5.0 250.0 34.94 100 75 125 Potassium 270 5.0 250.0 28.01 97.8 75 125

TestCode: EPA Method 6010B: Dissolved Metals Sample ID: 2103428-001DMSD SampType: MSD

Client ID: S-17 (3/5/21) Batch ID: A76078 RunNo: 76078

Prep Date: Analysis Date: 3/18/2021 SeqNo: 2693046 Units: mg/L

%RPD Analyte POI SPK value SPK Ref Val %REC HighLimit **RPDLimit** Qual Result LowLimit Calcium 330 5.0 250.0 77.36 99.1 75 125 1.46 20 99.5 Magnesium 280 5.0 250.0 34.94 75 125 0.520 20 Potassium 270 5.0 250.0 28.01 97.9 75 125 0.144 20

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Е Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 16 of 18

Hall Environmental Analysis Laboratory, Inc.

26-Mar-21

2103428

WO#:

Client: Souder, Miller and Associates

Project: Aqua Moss Sunco Disposal # 1

Sample ID: mb-1 alk SampType: mblk TestCode: SM2320B: Alkalinity

Client ID: PBW Batch ID: R76029 RunNo: 76029

Prep Date: Analysis Date: 3/16/2021 SeqNo: 2691289 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: Ics-1 alk SampType: Ics TestCode: SM2320B: Alkalinity

Client ID: LCSW Batch ID: R76029 RunNo: 76029

Prep Date: Analysis Date: 3/16/2021 SeqNo: 2691290 Units: mg/L CaCO3

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

Total Alkalinity (as CaCO3) 72.52 20.00 80.00 0 90.6 90 110

Sample ID: mb-2 alk SampType: mblk TestCode: SM2320B: Alkalinity

Client ID: PBW Batch ID: R76029 RunNo: 76029

Prep Date: Analysis Date: 3/16/2021 SeqNo: 2691312 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: Ics-2 alk SampType: Ics TestCode: SM2320B: Alkalinity

Client ID: LCSW Batch ID: R76029 RunNo: 76029

Prep Date: Analysis Date: 3/16/2021 SeqNo: 2691313 Units: mg/L CaCO3

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

Total Alkalinity (as CaCO3) 72.08 20.00 80.00 0 90.1 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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2103428**

26-Mar-21

Client: Souder, Miller and Associates

Project: Aqua Moss Sunco Disposal # 1

Sample ID: MB-58667 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 58667 RunNo: 75916

Prep Date: 3/11/2021 Analysis Date: 3/12/2021 SeqNo: 2686077 Units: mg/L

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

Total Dissolved Solids ND 20.0

Sample ID: LCS-58667 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 58667 RunNo: 75916

Prep Date: 3/11/2021 Analysis Date: 3/12/2021 SeqNo: 2686078 Units: mg/L

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

Total Dissolved Solids 988 20.0 1000 0 98.8 80 120

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

B Analyte detected in the associated Method Blank

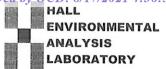
E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 18 of 18



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Souder, Miller and Associates	Work Order Number	2103428		RcptNo: 1
Received By: Juan Rojas	3/6/2021 8:55:00 AM		Guaran g	
Completed By: Cheyenne Cason	3/9/2021 9:54:41 AM			
Reviewed By: 5PA 3.9.21				
Chain of Custody				
1. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present
2. How was the sample delivered?		Courier		
<u>Log In</u>			_	_
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 broker	1?	Yes	No 🗸	# of preserved
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗸	No 🗌	for pH: (2) or >(2) unless noted)
2. Are matrices correctly identified on Chain of C	Custody?	Yes 🗸	No 🗌	Adjusted? Y ? >
3. Is it clear what analyses were requested?		Yes 🗸	No 🗌	
4. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗸	No 🗌	Checked by: 70 3 9 71
Special Handling (if applicable)				
15. Was client notified of all discrepancies with t	nis order?	Yes \square	No 🗌	NA 🗸
Person Notified:	Date:	CONTRACTOR DESCRIPTION OF THE PARTY OF THE P	on the processing and the processing of the proc	
By Whom:	Via:	eMail [Phone Fax	☐ In Person
Regarding:	THE THE THE STATE OF THE STATE	OTTOWNS PRODUCED THESE	PHONE SECTION	TO A METAL STATE OF THE STATE O
Client Instructions:	PROFESSION NAMES CONTROL CONTR	ASSUM, MANUAL EXCENSIVE ESTA	Will Dook the contract of the same of the	
16. Additional remarks: Added -0.5ml t	1NO3 to sample	-WIE	for proper	PH. Also added O. YMI FI
17. Cooler Information	-001D 491 bis	eal Date	h. TO 3/9 Signed By	1/2,

Received by OCD: 8/17/2021	4:36:51 PM	Page 79 of 83
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	See Attached	
490 Tel	TPH:8015D(GRO \ DRO \ MRO)	Remarks: Direct Ratks possibility. Ar
Turn-Around Time: X Standard Rush Project Name: Actual Moss Sunce Disposed # / Project #:	Project Manager: Healthur Woods Sampler: Healthur Woods December: Preservative HEAL No. December: December:	HND3 WE NOTH WITH NOTH WAS A WAS
Chain-of-Custody Record Client: Souder, Miller: Associates Mailing Address: 401 W. Bradway, Farming ton, NM 87401 Phone #: (565) 7116-2787	email or Fax#: Heathus, Woods @souchsmiller.co QA/QC Package: Standard Accreditation: NELAC Date Time Matrix Sample Name	

Sunco Disposal #1 Quarterly Laboratory Analytical List Page 1

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

EPA HW No.	Contaminant	SW-846 Methods	Regulatory Leve (mg/L)
D004	Arsenic	1311	5.0
D005	Barium	[31]	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
0029	1,1-Dichloroethylene	8021B 8260B	0.7
D030	2,4-Dinitrotoluene	8091 8270D	0.13
0032	Hexachlorobenzene	8121	0.13
0033	Hexachlorobutadiene	8021B 8121 8260B	0.5
0034	Hexachloroethane	8121	3.0
0008	Lead	1311	5.0
0009	Mercury	7470A 7471B	0.2
0035	Methyl ethyl ketone	8015B 8260B	200.0

Sunco Disposal #1 Quarterly Laboratory Analytical List Page 2

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.

if o, ms, and person concentrations cannot be autherentiated, then the total cresor (1992) 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, suifate, total dissolved solids, cation/anion balance, pH, and bromide) using the methods specified at 40 CFR 136.3.

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

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

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

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

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

COMMENTS

Action 42695

COMMENTS

Operator:	OGRID:
AGUA MOSS, LLC	247130
P.O. Box 600	Action Number:
Farmington, NM 87499	42695
	Action Type:
	[UF-DP] Discharge Permit (DISCHARGE PERMIT)

COMMENTS

Created By	Comment	Comment Date
cchavez	Various injection well reports associated with discharge permit deliverables were submitted.	8/18/2021

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

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

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

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

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

CONDITIONS

Action 42695

CONDITIONS

Operator:	OGRID:
AGUA MOSS, LLC	247130
P.O. Box 600	Action Number:
Farmington, NM 87499	42695
	Action Type:
	[UF-DP] Discharge Permit (DISCHARGE PERMIT)

CONDITIONS

Crea	Created By Condition		Condition Date	
ccha	vez	None	8/18/2021	