Annual Class I Well Report for 2022

March 10th, 2023

Agua Moss, LLC

PO Box 600

Farmington, NM 87499

Permit UICI-005

API 30-045-28653

Submitted By:

Philana Thompson

Regulatory Compliance Specialist

Merrion Oil & Gas

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Appendices

Appendix A

Monthly Injection/disposal volumes

MAX and Average injection PSI

Appendix B

Quarterly Chemical Analyses Data

Appendix C

MIT

BH Test

FOT

Appendix D

Charts

C-138s

Appendix E

AOR

Appendix F

Monitor Well

Summary of Operations

2022

A Fall of test was conducted on 8/22/2022.
Based on the analysis and results comparison, Agua Moss believes the Sunco SWD #1 2022 FOT was successfully completed. The results do not show indications of concern in continuing the current waste injection operations. In addition, the comparison of results between bottom hole gauges and surface gauges indicate that surface gauges provide a similar result.

Agua Moss, LLC submitted a permit to continue operations and it was deemed administratively complete on 7/29/2022, It is still currently in the review process.

Appendix A

Received by OCD: 10/2/2023 3:49:18 PM

Quarterly Injection Report

	Average Pressure (psig)	Maximum Pressure (psig)	Minimum Pressure (psig)	Average Flow (gpm)	Maxium Flow (gpm)	Minimum Flow (gpm)	Average Annular Pressure (psig)	Maximum Annular Pressure (psig)	Minimum Annular Pressure (psig)	Average Volume (bpd)	Maximum Volume (bpd)	Minimum Volume (bpd)	Volume (barrels)	Total Cumulative Volume (barrels)	
													Previous year	15182756	
Jan-2021	1620	1850	1250	33.35208333	62.7375	11.8708333	0	0	0	1143.5	2151	407	16009	15198765	
Feb-2021	1896.429	2350	1750	40.61728395	68.6	7.58333333	0	0	0	1392.592593	2352	260	37600	15236365	
Mar-2021	1917.742	2150	1850	34.69277778	70.9625	8.8375	0	0	0	1189.466667	2433	303	35684	15272049	
													Previous Quarter	15272049	
Apr-2021	0	0	0	26.20710784	48.70833333	7.6125	0	0	0	898.5294118	1670	261	15275	15287324	
May-2021	1873.684	2150	1750	0	0	0	0	0	0	0	0	0	0	15287324	
Jun-2021	1495	1520	1450	0.466666667	0.466666667	0.46666667	0	0	0	16	16	16	16	15287340	
													Previous Quarter	15287340	
Jul-21	1423.333	1720	1275	15.925	15.925	15.925	0	0	0	546	546	546	546	15287886	
Aug-21	1396.667	1740	1200	12.49791667	14.64166667	10.3541667	0	0	0	428.5	502	355	857	15288743	
Sep-21	1210	1250	1200	22.05972222	41.125	11.375	0	0	0	756.3333333	1410	390	2269	15291012	
													Previous Quarter	15291012	
Oct-2021	1250	1250	1250	27.50416667	27.50416667	27.5041667	0	0	0	943	943	943	943	15291955	
Nov-2021	1267.857	1450	1150	25.21944444	41.3875	13.4458333	0	0	0	864.6666667	1419	461	5188	15297143	
Dec-2021	1584.375	1700	1300	33.48333333	51.47916667	5.62916667	0	0	0	1148	1765	193	8036	15305179	
												Total for year	**122423**	**15427602**	**Life Of well injected**

Released to Imaging: 10/2/2023 4:00:31 PM

	WH	AP
1/1/21		0
1/2/21		
1/3/21		
1/4/21		
1/5/21		
1/6/21		
1/7/21		
1/8/21		
1/9/21		
1/10/21		
1/11/21		
1/12/21		
1/13/21		
1/14/21		
1/15/21	1250	
1/16/21		
1/17/21		
1/18/21	1250	
1/19/21	1400	
1/20/21	1550	
1/21/21	1600	
1/22/21	1700	
1/23/21	1750	
1/24/21	1700	
1/25/21	1400	
1/26/21	1700	
1/27/21	1750	
1/28/21	1800	
1/29/21	1850	
1/30/21	1800	
1/31/21	1800	
	1620	**0** AVG
	1250	**0** MIN
	1850	**0** MAX

	WH	AP
2/1/21	1750	0
2/2/21	1800	
2/3/21	1850	
2/4/21	1850	
2/5/21	1900	
2/6/21	2350	
2/7/21	1850	
2/8/21	1850	
2/9/21	1800	
2/10/21	1900	
2/11/21	1900	
2/12/21	1900	
2/13/21	1900	
2/14/21	1850	
2/15/21	1800	
2/16/21	1850	
2/17/21	1800	
2/18/21	1800	
2/19/21	1800	
2/20/21	1900	
2/21/21	1750	
2/22/21	1750	
2/23/21	2075	
2/24/21	1900	
2/25/21	2100	
2/26/21	2100	
2/27/21	2100	
2/28/21	1925	
	1896.429	**0** AVG
	1750	**0** MIN
	2350	**0** MAX

	WH	AP
3/1/21	1900	0
3/2/21	1900	
3/3/21	1900	
3/4/21	1900	
3/5/21	1900	
3/6/21	1950	
3/7/21	1850	
3/8/21	1900	
3/9/21	1900	
3/10/21	1925	
3/11/21	1925	
3/12/21	1950	
3/13/21	1950	
3/14/21	1900	
3/15/21	1850	
3/16/21	1900	
3/17/21	1950	
3/18/21	2150	
3/19/21	1950	
3/20/21	1950	
3/21/21	1850	
3/22/21	1850	
3/23/21	1950	
3/24/21	1850	
3/25/21	1850	
3/26/21	1950	
3/27/21	1950	
3/28/21	1850	
3/29/21	1950	
3/30/21	2000	
3/31/21	1900	
	1917.742	**0** AVG
	1850	**0** MIN
	2150	**0** MAX

	WH	AP
4/1/21	0	0
4/2/21		
4/3/21		
4/4/21		
4/5/21		
4/6/21		
4/7/21		
4/8/21		
4/9/21		
4/10/21		
4/11/21		
4/12/21		
4/13/21		
4/14/21		
4/15/21		
4/16/21		
4/17/21		
4/18/21		
4/19/21		
4/20/21		
4/21/21		
4/22/21		
4/23/21		
4/24/21		
4/25/21		
4/26/21		
4/27/21		
4/28/21		
4/29/21		
4/30/21		
	0	**0** AVG
	0	**0** MIN
	0	**0** MAX

	WH	AP
5/1/21	1900	0
5/2/21	1950	
5/3/21	1950	
5/4/21	1900	
5/5/21	1850	
5/6/21	1850	
5/7/21	1900	
5/8/21	1900	
5/9/21	1900	
5/10/21	2150	
5/11/21	1850	
5/12/21	1850	
5/13/21		
5/14/21		
5/15/21	1850	
5/16/21	1850	
5/17/21	1750	
5/18/21	1750	
5/19/21	1800	
5/20/21	1800	
5/21/21	1850	
5/22/21		
5/23/21		
5/24/21		
5/25/21		
5/26/21		
5/27/21		
5/28/21		
5/29/21		
5/30/21		
5/31/21		
	1873.684	**0** AVG
	1750	**0** MIN
	2150	**0** MAX

	WH	AP
6/1/21	1500	0
6/2/21		
6/3/21		
6/4/21		
6/5/21		
6/6/21		
6/7/21		
6/8/21	1500	
6/9/21		
6/10/21		
6/11/21		
6/12/21		
6/13/21		
6/14/21		
6/15/21		
6/16/21	1500	
6/17/21	1500	
6/18/21		
6/19/21		
6/20/21		
6/21/21		
6/22/21		
6/23/21		
6/24/21		
6/25/21		
6/26/21		
6/27/21		
6/28/21		
6/29/21	1450	
6/30/21	1520	
	1495	**0** AVG
	1450	**0** MIN
	1520	**0** MAX

	WH	AP
7/1/21		0
7/2/21		
7/3/21		
7/4/21		
7/5/21		
7/6/21		
7/7/21		
7/8/21		
7/9/21		
7/10/21		
7/11/21		
7/12/21		
7/13/21		
7/14/21		
7/15/21		
7/16/21		
7/17/21		
7/18/21		
7/19/21		
7/20/21		
7/21/21	1275	
7/22/21		
7/23/21	1275	
7/24/21		
7/25/21		
7/26/21		
7/27/21		
7/28/21	1720	
7/29/21		
7/30/21		
7/31/21		
	1423.333	**0** AVG
	1275	**0** MIN
	1720	**0** MAX

	WH	AP
8/1/21		0
8/2/21		
8/3/21		
8/4/21	1250	
8/5/21		
8/6/21		
8/7/21		
8/8/21		
8/9/21		
8/10/21	1740	
8/11/21	1200	
8/12/21		
8/13/21		
8/14/21		
8/15/21		
8/16/21		
8/17/21		
8/18/21		
8/19/21		
8/20/21		
8/21/21		
8/22/21		
8/23/21		
8/24/21		
8/25/21		
8/26/21		
8/27/21		
8/28/21		
8/29/21		
8/30/21		
8/31/21		
	1396.667	**0** AVG
	1200	**0** MIN
	1740	**0** MAX

	WH	AP
9/1/21	1250	0
9/2/21		
9/3/21		
9/4/21		
9/5/21		
9/6/21		
9/7/21	1200	
9/8/21		
9/9/21		
9/10/21		
9/11/21		
9/12/21		
9/13/21		
9/14/21		
9/15/21	1200	
9/16/21		
9/17/21		
9/18/21		
9/19/21		
9/20/21		
9/21/21		
9/22/21	1200	
9/23/21		
9/24/21		
9/25/21		
9/26/21		
9/27/21	1200	
9/28/21		
9/29/21		
9/30/21		
	1210	**0** AVG
	1200	**0** MIN
	1250	**0** MAX

	WH	AP
10/1/21	1250	0
10/2/21		
10/3/21		
10/4/21		
10/5/21		
10/6/21		
10/7/21		
10/8/21		
10/9/21		
10/10/21		
10/11/21		
10/12/21		
10/13/21		
10/14/21		
10/15/21		
10/16/21		
10/17/21		
10/18/21		
10/19/21		
10/20/21		
10/21/21		
10/22/21		
10/23/21		
10/24/21		
10/25/21		
10/26/21		
10/27/21		
10/28/21		
10/29/21		
10/30/21		
10/31/21		
	1250	**0** AVG
	1250	**0** MIN
	1250	**0** MAX

	WH	AP
11/1/21		0
11/2/21	1150	
11/3/21	1300	
11/4/21		
11/5/21		
11/6/21		
11/7/21		
11/8/21		
11/9/21		
11/10/21	1150	
11/11/21		
11/12/21		
11/13/21		
11/14/21		
11/15/21		
11/16/21		
11/17/21		
11/18/21		
11/19/21		
11/20/21		
11/21/21		
11/22/21		
11/23/21		
11/24/21		
11/25/21	1150	
11/26/21	1400	
11/27/21		
11/28/21		
11/29/21	1275	
11/30/21	1450	
	1267.857	**0** AVG
	1150	**0** MIN
	1450	**0** MAX

	WH	AP
12/1/21	1550	0
12/2/21	1600	
12/3/21	1650	
12/4/21	1700	
12/5/21		
12/6/21	1575	
12/7/21	1650	
12/8/21	1650	
12/9/21		
12/10/21		
12/11/21		
12/12/21		
12/13/21		
12/14/21		
12/15/21		
12/16/21		
12/17/21		
12/18/21		
12/19/21		
12/20/21		
12/21/21		
12/22/21	1300	
12/23/21		
12/24/21		
12/25/21		
12/26/21		
12/27/21		
12/28/21		
12/29/21		
12/30/21		
12/31/21		
	1584.375	**0** AVG
	1300	**0** MIN
	1700	**0** MAX

Total Injected	Avg Vol	Avg Flow		Avg Vol	Avg Flow		Avg Vol	Avg Flow		Avg Vol	Avg Flow		Avg Vol	Avg Flow		Avg Vol	Avg Flow		Avg Vol	Avg Flow		Avg Vol	Avg Flow		Avg Vol	Avg Flow		Avg Vol	Avg Flow		Avg 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			7/1/2021			8/1/2021			9/1/2021	469	13.67916667	10/1/2021	943	27.50416667	11/1/2021			12/1/2021	1566	45.675
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			7/2/2021			8/2/2021			9/2/2021			10/2/2021			11/2/2021	476	13.88333333	12/2/2021	1511	44.07083333
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			7/3/2021			8/3/2021			9/3/2021			10/3/2021			11/3/2021	461	13.44583333	12/3/2021	1765	51.47916667
1/4/21			2/4/21	2235	65.1875	3/4/21	1640	47.83333333	4/4/2021			5/4/2021			6/4/2021			7/4/2021			8/4/2021			9/4/2021			10/4/2021			11/4/2021			12/4/2021	935	27.27083333
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			7/5/2021			8/5/2021			9/5/2021			10/5/2021			11/5/2021			12/5/2021		
1/6/21			2/6/21	1178	34.35833333	3/6/21			4/6/2021	1144	33.36666667	5/6/2021			6/6/2021			7/6/2021			8/6/2021			9/6/2021			10/6/2021			11/6/2021			12/6/2021	1164	33.95
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			7/7/2021			8/7/2021			9/7/2021	390	11.375	10/7/2021			11/7/2021			12/7/2021	902	26.30833333
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			7/8/2021			8/8/2021			9/8/2021			10/8/2021			11/8/2021			12/8/2021	193	5.629166667
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			7/9/2021			8/9/2021			9/9/2021			10/9/2021			11/9/2021			12/9/2021		
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			7/10/2021			8/10/2021	502	14.64166667	9/10/2021			10/10/2021			11/10/2021			12/10/2021		
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			7/11/2021			8/11/2021	355	10.35416667	9/11/2021			10/11/2021			11/11/2021			12/11/2021		
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			7/12/2021			8/12/2021			9/12/2021			10/12/2021			11/12/2021			12/12/2021		
1/13/21			2/13/21	559	16.30416667	3/13/21	1157	33.74583333	4/13/2021			5/13/2021			6/13/2021			7/13/2021			8/13/2021			9/13/2021			10/13/2021			11/13/2021			12/13/2021		
1/14/21			2/14/21	260	7.583333333	3/14/21	357	10.4125	4/14/2021			5/14/2021			6/14/2021			7/14/2021			8/14/2021			9/14/2021			10/14/2021			11/14/2021			12/14/2021		
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			7/15/2021			8/15/2021			9/15/2021			10/15/2021			11/15/2021			12/15/2021		
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			7/16/2021			8/16/2021			9/16/2021			10/16/2021			11/16/2021			12/16/2021		
1/17/21			2/17/21	1605	46.8125	3/17/21	841	24.52916667	4/17/2021			5/17/2021			6/17/2021			7/17/2021			8/17/2021			9/17/2021			10/17/2021			11/17/2021			12/17/2021		
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			7/18/2021			8/18/2021			9/18/2021			10/18/2021			11/18/2021			12/18/2021		
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			7/19/2021			8/19/2021			9/19/2021			10/19/2021			11/19/2021			12/19/2021		
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			7/20/2021			8/20/2021			9/20/2021			10/20/2021			11/20/2021			12/20/2021		
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			7/21/2021			8/21/2021			9/21/2021			10/21/2021			11/21/2021			12/21/2021		
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			7/22/2021			8/22/2021			9/22/2021			10/22/2021			11/22/2021			12/22/2021		
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			7/23/2021			8/23/2021			9/23/2021			10/23/2021			11/23/2021			12/23/2021		
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			7/24/2021			8/24/2021			9/24/2021			10/24/2021			11/24/2021			12/24/2021		
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			7/25/2021			8/25/2021			9/25/2021			10/25/2021			11/25/2021	772	22.51666667	12/25/2021		
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			7/26/2021			8/26/2021			9/26/2021			10/26/2021			11/26/2021	1142	33.30833333	12/26/2021		
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			7/27/2021			8/27/2021			9/27/2021	1410	41.125	10/27/2021			11/27/2021			12/27/2021		
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			7/28/2021	546	15.925	8/28/2021			9/28/2021			10/28/2021			11/28/2021			12/28/2021		
1/29/21	1244	36.28333333				3/29/21	928	27.06666667	4/29/2021			5/29/2021			6/29/2021			7/29/2021			8/29/2021			9/29/2021			10/29/2021			11/29/2021	918	26.775	12/29/2021		
1/30/21	1184	34.53333333				3/30/21	1142	33.30833333	4/30/2021			5/30/2021			6/30/2021	16	0.466666667	7/30/2021			8/30/2021			9/30/2021			10/30/2021			11/30/2021	1419	41.3875	12/30/2021		
1/31/21	536	15.63333333				3/31/21	1454	42.40833333				5/31/2021			7/31/2021			8/31/2021						10/31/2021			12/31/2021					
AVG	1143.5	33.35208333		1392.592593	40.61728395		1189.466667	34.69277778		898.5294118	26.20710784		0	0		16	0.466666667		546	15.925		428.5	12.49791667		756.3333	22.05972222		943	27.50416667		864.6667	25.21944444		1148	33.48333333
MAX	2151	62.7375		2352	68.6		2433	70.9625		1670	48.70833333		0	0		16	0.466666667		546	15.925		502	14.64166667		1410	41.125		943	27.50416667		1419	41.3875		1765	51.47916667
MIN	407	11.8708333		260	7.5833333		303	8.8375000		261	7.6125000		0	0.0000000		16	0.4666667		546	15.9250000		355	10.3541667		390	11.3750000		943	27.5041667		461	13.4458333		193	5.6291667
Total for mont	16009			37600			35684			15275			0			16			546			857			2269			943			5188			8036	

886

Appendix B

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

May 12, 2022

Heather Woods

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

RE: Agua Moss Sunco 1 OrderNo.: 2203F61

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/30/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Case Narrative

WO#: **2203F61**
Date: **5/12/2022**

CLIENT: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Analytical Comments for ORP:
Sub lab was unable to analyze for ORP due to lab error.

Analytical Report
Lab Order **2203F61**
Date Reported: **5/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: S-21 (03/29/22)
Project: Agua Moss Sunco 1
Collection Date: 3/29/2022 9:20:00 AM
Lab ID: 2203F61-001 **Matrix:** AQUEOUS **Received Date:** 3/30/2022 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8081: PESTICIDES TCLP						Analyst:	**JME**
Chlordane	ND	0.030		mg/L	1	4/8/2022 12:33:47 PM	66537
Surr: Decachlorobiphenyl	88.3	73-119		%Rec	1	4/8/2022 12:33:47 PM	66537
Surr: Tetrachloro-m-xylene	76.1	36.6-84.1		%Rec	1	4/8/2022 12:33:47 PM	66537
EPA METHOD 8270C TCLP						Analyst:	**DAM**
2-Methylphenol	ND	200		mg/L	1	4/14/2022 12:38:02 AM	66542
3+4-Methylphenol	ND	200		mg/L	1	4/14/2022 12:38:02 AM	66542
2,4-Dinitrotoluene	ND	0.13		mg/L	1	4/14/2022 12:38:02 AM	66542
Hexachlorobenzene	ND	0.13		mg/L	1	4/14/2022 12:38:02 AM	66542
Hexachlorobutadiene	ND	0.50		mg/L	1	4/14/2022 12:38:02 AM	66542
Hexachloroethane	ND	3.0		mg/L	1	4/14/2022 12:38:02 AM	66542
Nitrobenzene	ND	2.0		mg/L	1	4/14/2022 12:38:02 AM	66542
Pentachlorophenol	ND	100		mg/L	1	4/14/2022 12:38:02 AM	66542
Pyridine	ND	5.0		mg/L	1	4/14/2022 12:38:02 AM	66542
2,4,5-Trichlorophenol	ND	400		mg/L	1	4/14/2022 12:38:02 AM	66542
2,4,6-Trichlorophenol	ND	2.0		mg/L	1	4/14/2022 12:38:02 AM	66542
Cresols, Total	ND	200		mg/L	1	4/14/2022 12:38:02 AM	66542
Surr: 2-Fluorophenol	52.2	15-118		%Rec	1	4/14/2022 12:38:02 AM	66542
Surr: Phenol-d5	40.1	15-92.9		%Rec	1	4/14/2022 12:38:02 AM	66542
Surr: 2,4,6-Tribromophenol	64.1	15-150		%Rec	1	4/14/2022 12:38:02 AM	66542
Surr: Nitrobenzene-d5	64.7	15-136		%Rec	1	4/14/2022 12:38:02 AM	66542
Surr: 2-Fluorobiphenyl	54.3	15-134		%Rec	1	4/14/2022 12:38:02 AM	66542
Surr: 4-Terphenyl-d14	71.6	15-168		%Rec	1	4/14/2022 12:38:02 AM	66542
SPECIFIC GRAVITY						Analyst:	**CAS**
Specific Gravity	1.052	0			1	4/11/2022 4:41:00 PM	R87156
EPA METHOD 300.0: ANIONS						Analyst:	**LRN**
Fluoride	ND	50		mg/L	500	4/14/2022 6:10:48 PM	R87274
Chloride	46000	2500	*	mg/L	5E+	4/18/2022 1:21:40 PM	R87334
Bromide	110	5.0		mg/L	50	4/14/2022 6:23:39 PM	R87274
Phosphorus, Orthophosphate (As P)	ND	10		mg/L	20	3/31/2022 1:24:30 AM	R86850
Sulfate	380	10	*	mg/L	20	3/31/2022 1:24:30 AM	R86850
Nitrate+Nitrite as N	ND	40		mg/L	200	4/14/2022 9:10:56 PM	R87274
SM2510B: SPECIFIC CONDUCTANCE						Analyst:	**CAS**
Conductivity	160000	500		µmhos/c	50	4/6/2022 2:20:47 PM	R87087
SM2320B: ALKALINITY						Analyst:	**LRN**
Bicarbonate (As CaCO3)	215.6	20.00		mg/L Ca	1	4/5/2022 2:26:56 PM	R87028
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	4/5/2022 2:26:56 PM	R87028
Total Alkalinity (as CaCO3)	215.6	20.00		mg/L Ca	1	4/5/2022 2:26:56 PM	R87028

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

Qualifiers:

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

Analytical Report
Lab Order **2203F61**
Date Reported: **5/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Project: Agua Moss Sunco 1
Lab ID: 2203F61-001 **Matrix:** AQUEOUS

Client Sample ID: S-21 (03/29/22)
Collection Date: 3/29/2022 9:20:00 AM
Received Date: 3/30/2022 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	92400	1000	*D	mg/L	1	4/7/2022 11:38:00 AM	66619
SM4500-H+B / 9040C: PH						Analyst:	**LRN**
pH	5.54		H	pH units	1	4/5/2022 2:26:56 PM	R87028
EPA METHOD 7470A: MERCURY						Analyst:	**VP**
Mercury	ND	0.0010		mg/L	5	4/18/2022 1:34:29 PM	66897
EPA METHOD 6010B: DISSOLVED METALS						Analyst:	**JLF**
Calcium	8300	100		mg/L	100	4/5/2022 7:20:10 PM	A87057
Magnesium	590	10		mg/L	10	4/5/2022 5:42:27 PM	A87057
Potassium	850	10		mg/L	10	4/5/2022 5:42:27 PM	A87057
Sodium	20000	1000		mg/L	1E+	4/8/2022 12:55:25 PM	A87128
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst:	**JLF**
Arsenic	ND	0.15		mg/L	5	4/6/2022 2:54:20 PM	66512
Barium	4.1	0.010		mg/L	5	4/5/2022 3:18:21 PM	66512
Cadmium	ND	0.010		mg/L	5	4/5/2022 3:18:21 PM	66512
Chromium	ND	0.030		mg/L	5	4/5/2022 3:18:21 PM	66512
Lead	ND	0.10		mg/L	5	4/5/2022 3:18:21 PM	66512
Selenium	0.37	0.25		mg/L	5	4/5/2022 3:18:21 PM	66512
Silver	0.093	0.025		mg/L	5	4/5/2022 3:18:21 PM	66512
TCLP VOLATILES BY 8260B						Analyst:	**CCM**
Benzene	0.94	0.50		mg/L	200	4/6/2022 10:00:00 PM	T87039
1,2-Dichloroethane (EDC)	ND	0.50		mg/L	200	4/6/2022 10:00:00 PM	T87039
2-Butanone	ND	200		mg/L	200	4/6/2022 10:00:00 PM	T87039
Carbon Tetrachloride	ND	0.50		mg/L	200	4/6/2022 10:00:00 PM	T87039
Chloroform	ND	6.0		mg/L	200	4/6/2022 10:00:00 PM	T87039
1,4-Dichlorobenzene	ND	7.5		mg/L	200	4/6/2022 10:00:00 PM	T87039
1,1-Dichloroethene	ND	0.70		mg/L	200	4/6/2022 10:00:00 PM	T87039
Tetrachloroethene (PCE)	ND	0.70		mg/L	200	4/6/2022 10:00:00 PM	T87039
Trichloroethene (TCE)	ND	0.50		mg/L	200	4/6/2022 10:00:00 PM	T87039
Vinyl chloride	ND	0.20		mg/L	200	4/6/2022 10:00:00 PM	T87039
Chlorobenzene	ND	100		mg/L	200	4/6/2022 10:00:00 PM	T87039
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	200	4/6/2022 10:00:00 PM	T87039
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	200	4/6/2022 10:00:00 PM	T87039
Surr: Dibromofluoromethane	106	70-130		%Rec	200	4/6/2022 10:00:00 PM	T87039
Surr: Toluene-d8	97.0	70-130		%Rec	200	4/6/2022 10:00:00 PM	T87039

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

Qualifiers:

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

ANALYTICAL REPORT

April 05, 2022

Hall Environmental Analysis Laboratory

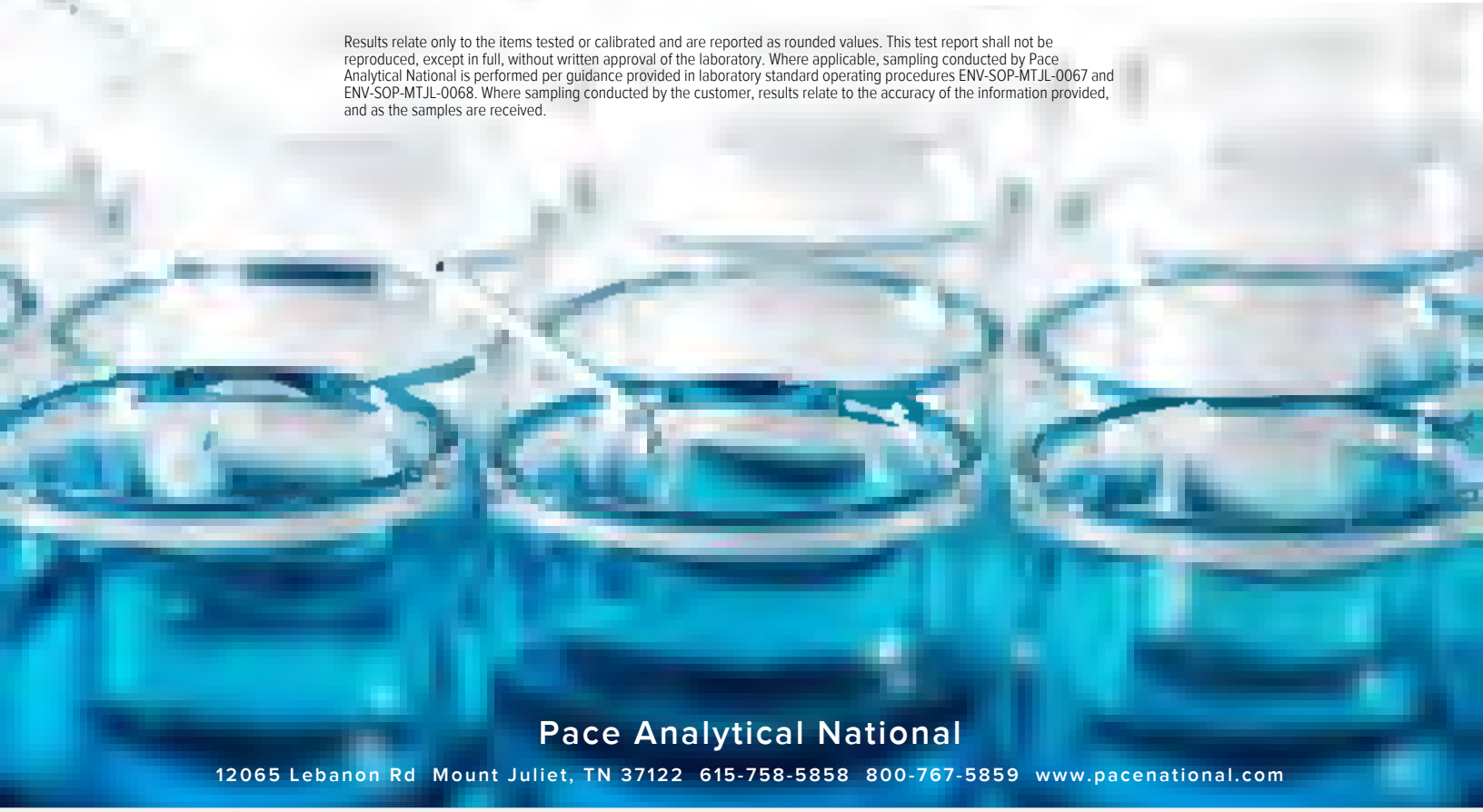
Sample Delivery Group:	L1477305
Samples Received:	03/31/2022
Project Number:	
Description:	

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

Entire Report Reviewed By:

Jason Romer
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

TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

2203F61-001FGHI S-21 (03/29/22) L1477305-01 5

Qc: Quality Control Summary 6

Wet Chemistry by Method 4500 CN E-2016 6

Wet Chemistry by Method 4500 S2 D-2011 7

Wet Chemistry by Method 9040C 8

Wet Chemistry by Method D93/1010A 9

Gl: Glossary of Terms 10

Al: Accreditations & Locations 11

Sc: Sample Chain of Custody 12

SAMPLE SUMMARY

2203F61-001FGHI S-21 (03/29/22) L1477305-01 GW

	Collected by	Collected date/time	Received date/time
		03/29/22 09:20	03/31/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 4500 CN E-2016	WG1841516	1	04/03/22 21:12	04/05/22 11:24	LDT	Mt. Juliet, TN
Wet Chemistry by Method 4500 S2 D-2011	WG1841651	1	04/01/22 20:48	04/01/22 20:48	TWF	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG1841727	1	04/01/22 10:15	04/01/22 10:15	EPW	Mt. Juliet, TN
Wet Chemistry by Method D93/1010A	WG1842591	1	04/04/22 01:00	04/04/22 01:00	WOS	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.



Jason Romer
Project Manager

Project Narrative

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

Sample Delivery Group (SDG) Narrative

Analysis was performed from an improper container for the following samples.

Lab Sample ID	Project Sample ID	Method
L1477305-01	2203F61-001FGHI S-21 (03/29/22)	4500 CN E-2016

Wet Chemistry by Method 4500 CN E-2016

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Cyanide	ND		0.00500	1	04/05/2022 11:24	WG1841516

Wet Chemistry by Method 4500 S2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Sulfide	ND		0.0500	1	04/01/2022 20:48	WG1841651

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
Corrosivity by pH	5.64	T8	1	04/01/2022 10:15	WG1841727

Sample Narrative:

L1477305-01 WG1841727: 5.64 at 17.2C

Wet Chemistry by Method D93/1010A

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	deg F			date / time	
Flashpoint	DNF at 170		1	04/04/2022 01:00	WG1842591

Method Blank (MB)

(MB) R3777668-1 04/05/22 10:52

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

L1476135-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1476135-01 04/05/22 10:56 • (DUP) R3777668-3 04/05/22 10:57

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

L1476156-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1476156-02 04/05/22 11:08 • (DUP) R3777668-6 04/05/22 11:10

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

Laboratory Control Sample (LCS)

(LCS) R3777668-2 04/05/22 10:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Cyanide	0.100	0.0978	97.8	87.1-120	

L1476135-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1476135-02 04/05/22 10:58 • (MS) R3777668-4 04/05/22 10:59 • (MSD) R3777668-5 04/05/22 11:00

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	0.00562	0.0955	0.103	89.9	97.4	1	90.0-110	J6		7.56	20

L1477288-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1477288-01 04/05/22 11:20 • (MS) R3777668-7 04/05/22 11:21 • (MSD) R3777668-8 04/05/22 11:22

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	ND	0.0702	0.0897	70.2	89.7	1	90.0-110	J6	J3 J6	24.4	20

Method Blank (MB)

(MB) R3776799-1 04/01/22 20:44

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

Laboratory Control Sample (LCS)

(LCS) R3776799-2 04/01/22 20:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Sulfide	0.500	0.510	102	85.0-115	

Received by OCD: 10/2/2023 3:49:18 PM

L1477305-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1477305-01 04/01/22 10:15 • (DUP) R3776830-3 04/01/22 10:15

Analyte	Original Result su	DUP Result su	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Corrosivity by pH	5.64	5.62	1	0.355		1

Sample Narrative:

OS: 5.64 at 17.2C

DUP: 5.62 at 17.6C

Laboratory Control Sample (LCS)

(LCS) R3776830-1 04/01/22 10:15

Analyte	Spike Amount su	LCS Result su	LCS Rec. %	Rec. Limits %	LCS Qualifier
Corrosivity by pH	10.0	9.95	99.5	99.0-101	

Sample Narrative:

LCS: 9.95 at 19.7C

Released to Imaging: 10/2/2023 4:00:31 PM

L1476287-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1476287-02 04/04/22 01:00 • (DUP) R3777412-3 04/04/22 01:00

Analyte	Original Result deg F	DUP Result deg F	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Flashpoint	130	136	1	4.52		10

L1477305-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1477305-01 04/04/22 01:00 • (DUP) R3777412-4 04/04/22 01:00

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

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

(LCS) R3777412-1 04/04/22 01:00 • (LCSD) R3777412-2 04/04/22 01:00

Analyte	Spike Amount deg F	LCS Result deg F	LCSD Result deg F	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Flashpoint	126	130	128	103	101	96.0-104			1.55	10

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

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

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

G125

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

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

L1477305

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2203F61-001F	S-21 (03/29/22)	500HDPE	Aqueous	3/29/2022 9:20:00 AM	1	RCI
2	2203F61-001G	S-21 (03/29/22)	500PLNAOH ZNAC	Aqueous	3/29/2022 9:20:00 AM	1	RCI
3	2203F61-001H	S-21 (03/29/22)	500PL-NaOH	Aqueous	3/29/2022 9:20:00 AM	1	RCI
4	2203F61-001I	S-21 (03/29/22)	125HDP	Aqueous	3/29/2022 9:20:00 AM	1	ORP

-01

#5528 5947 9569

Sample Receipt Checklist

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

BAAG 5.7 to = 5.7 / 4

SPECIAL INSTRUCTIONS / COMMENTS:

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

	Date	Time		Date	Time
Relinquished By:	3/30/2022	8:42 AM	Received By:	3/31/22	900
Relinquished By:	Date	Time	Received By:	Date	Time
Relinquished By:	Date	Time	Received By:	Date	Time

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

REPORT TRANSMITTAL DESIRED

☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY

Temp of samples: ____ ° Attempt to Cool: ____

Comments: ____

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203F61**
12-May-22

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R86850**	RunNo: **86850**							
Prep Date:	Analysis Date: **3/30/2022**	SeqNo: **3069045**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phosphorus, Orthophosphate (As P	ND	0.50								
Sulfate	ND	0.50								

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R86850**	RunNo: **86850**							
Prep Date:	Analysis Date: **3/30/2022**	SeqNo: **3069046**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phosphorus, Orthophosphate (As P	4.8	0.50	5.000	0	95.9	90	110			
Sulfate	10	0.50	10.00	0	100	90	110			

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R87274**	RunNo: **87274**							
Prep Date:	Analysis Date: **4/14/2022**	SeqNo: **3086299**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Bromide	ND	0.10								
Nitrate+Nitrite as N	ND	0.20								

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R87274**	RunNo: **87274**							
Prep Date:	Analysis Date: **4/14/2022**	SeqNo: **3086300**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.50	0.10	0.5000	0	100	90	110			
Bromide	2.5	0.10	2.500	0	99.8	90	110			
Nitrate+Nitrite as N	3.6	0.20	3.500	0	102	90	110			

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R87334**	RunNo: **87334**							
Prep Date:	Analysis Date: **4/18/2022**	SeqNo: **3088780**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203F61**
12-May-22

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R87334**	RunNo: **87334**							
Prep Date:	Analysis Date: **4/18/2022**	SeqNo: **3088781**	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	93.8	90	110			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203F61**
12-May-22

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **MB-66537**	SampType: **MBLK**	TestCode: **EPA Method 8081: Pesticides TCLP**							
Client ID: **PBW**	Batch ID: **66537**	RunNo: **87097**							
Prep Date: **3/31/2022**	Analysis Date: **4/8/2022**	SeqNo: **3080552**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chlordane	ND	0.030								
Surr: Decachlorobiphenyl	0.0028		0.002500		113	73	119			
Surr: Tetrachloro-m-xylene	0.0019		0.002500		75.6	36.6	84.1			

Sample ID: **MB-66537**	SampType: **MBLK**	TestCode: **EPA Method 8081: Pesticides TCLP**							
Client ID: **PBW**	Batch ID: **66537**	RunNo: **87097**							
Prep Date: **3/31/2022**	Analysis Date: **4/8/2022**	SeqNo: **3080553**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chlordane	ND	0.030								
Surr: Decachlorobiphenyl	0.0029		0.002500		118	73	119			
Surr: Tetrachloro-m-xylene	0.0019		0.002500		76.7	36.6	84.1			

Sample ID: **LCS-66537**	SampType: **LCS**	TestCode: **EPA Method 8081: Pesticides TCLP**							
Client ID: **LCSW**	Batch ID: **66537**	RunNo: **87097**							
Prep Date: **3/31/2022**	Analysis Date: **4/8/2022**	SeqNo: **3080554**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	0.0029		0.002500		115	73	119			
Surr: Tetrachloro-m-xylene	0.0015		0.002500		60.8	36.6	84.1			

Sample ID: **LCS-66537**	SampType: **LCS**	TestCode: **EPA Method 8081: Pesticides TCLP**							
Client ID: **LCSW**	Batch ID: **66537**	RunNo: **87097**							
Prep Date: **3/31/2022**	Analysis Date: **4/8/2022**	SeqNo: **3080555**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	0.0030		0.002500		119	73	119			
Surr: Tetrachloro-m-xylene	0.0016		0.002500		63.5	36.6	84.1			

Sample ID: **2203F61-001BMS**	SampType: **MS**	TestCode: **EPA Method 8081: Pesticides TCLP**							
Client ID: **S-21 (03/29/22)**	Batch ID: **66537**	RunNo: **87097**							
Prep Date: **3/31/2022**	Analysis Date: **4/8/2022**	SeqNo: **3080563**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	0.0022		0.002500		86.9	73	119			
Surr: Tetrachloro-m-xylene	0.0018		0.002500		70.4	36.6	84.1			

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203F61**
12-May-22

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **2203F61-001BMSD** SampType: **MSD** TestCode: **EPA Method 8081: Pesticides TCLP**
Client ID: **S-21 (03/29/22)** Batch ID: **66537** RunNo: **87097**
Prep Date: **3/31/2022** Analysis Date: **4/8/2022** SeqNo: **3080564** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	0.0027		0.002500		109	73	119	0	0	
Surr: Tetrachloro-m-xylene	0.0020		0.002500		81.9	36.6	84.1	0	0	

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203F61**
12-May-22

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **100ng 624 lcs**	SampType: **LCS**	TestCode: **TCLP Volatiles by 8260B**							
Client ID: **LCSW**	Batch ID: **T87039**	RunNo: **87039**							
Prep Date:	Analysis Date: **4/6/2022**	SeqNo: **3077978**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.50	0.02000	0	105	70	130			
1,1-Dichloroethene	ND	0.70	0.02000	0	101	70	130			
Trichloroethene (TCE)	ND	0.50	0.02000	0	101	70	130			
Chlorobenzene	ND	100	0.02000	0	105	70	130			
Surr: 1,2-Dichloroethane-d4	0.010		0.01000		101	70	130			
Surr: 4-Bromofluorobenzene	0.010		0.01000		104	70	130			
Surr: Dibromofluoromethane	0.010		0.01000		101	70	130			
Surr: Toluene-d8	0.0099		0.01000		98.9	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203F61**
12-May-22

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **mb-66542**	SampType: **MBLK**	TestCode: **EPA Method 8270C TCLP**							
Client ID: **PBW**	Batch ID: **66542**	RunNo: **87231**							
Prep Date: **4/1/2022**	Analysis Date: **4/13/2022**	SeqNo: **3084458**	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	0.11		0.2000		55.0	15	118			
Surr: Phenol-d5	0.082		0.2000		41.0	15	92.9			
Surr: 2,4,6-Tribromophenol	0.13		0.2000		62.7	15	150			
Surr: Nitrobenzene-d5	0.065		0.1000		65.3	15	136			
Surr: 2-Fluorobiphenyl	0.052		0.1000		51.8	15	134			
Surr: 4-Terphenyl-d14	0.075		0.1000		74.5	15	168			

Sample ID: **lcs-66542**	SampType: **LCS**	TestCode: **EPA Method 8270C TCLP**							
Client ID: **LCSW**	Batch ID: **66542**	RunNo: **87231**							
Prep Date: **4/1/2022**	Analysis Date: **4/13/2022**	SeqNo: **3084459**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	0.056	0.00010	0.1000	0	55.8	19	106			
3+4-Methylphenol	0.11	0.00010	0.2000	0	53.3	16.3	112			
2,4-Dinitrotoluene	0.034	0.00010	0.1000	0	34.3	15	99.6			
Hexachlorobenzene	0.052	0.00010	0.1000	0	52.4	41.8	111			
Hexachlorobutadiene	0.042	0.00010	0.1000	0	41.6	15	91.5			
Hexachloroethane	0.046	0.00010	0.1000	0	46.3	15	87.5			
Nitrobenzene	0.059	0.00010	0.1000	0	59.3	19.3	114			
Pentachlorophenol	0.057	0.00010	0.1000	0	56.7	29	103			
Pyridine	0.039	0.00010	0.1000	0	39.3	15	92.6			
2,4,5-Trichlorophenol	0.052	0.00010	0.1000	0	51.7	25.2	114			
2,4,6-Trichlorophenol	0.053	0.00010	0.1000	0	52.9	25.7	112			
Cresols, Total	0.16	0.00010	0.3000	0	54.1	15	145			
Surr: 2-Fluorophenol	0.092		0.2000		45.9	15	118			
Surr: Phenol-d5	0.071		0.2000		35.3	15	92.9			
Surr: 2,4,6-Tribromophenol	0.12		0.2000		61.6	15	150			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203F61**

12-May-22

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **lcs-66542**	SampType: **LCS**	TestCode: **EPA Method 8270C TCLP**							
Client ID: **LCSW**	Batch ID: **66542**	RunNo: **87231**							
Prep Date: **4/1/2022**	Analysis Date: **4/13/2022**	SeqNo: **3084459**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Nitrobenzene-d5	0.058		0.1000		58.5	15	136			
Surr: 2-Fluorobiphenyl	0.051		0.1000		50.8	15	134			
Surr: 4-Terphenyl-d14	0.077		0.1000		77.0	15	168			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203F61**
12-May-22

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **lcs-1 100.2uS eC**	SampType: **lcs**	TestCode: **SM2510B: Specific Conductance**
Client ID: **LCSW**	Batch ID: **R87087**	RunNo: **87087**
Prep Date:	Analysis Date: **4/6/2022**	SeqNo: **3078666** Units: **µmhos/cm**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	100	10	100.2	0	101	85	115			

Sample ID: **lcsd-1 100.2uS eC**	SampType: **lcsd**	TestCode: **SM2510B: Specific Conductance**
Client ID: **LCSS02**	Batch ID: **R87087**	RunNo: **87087**
Prep Date:	Analysis Date: **4/6/2022**	SeqNo: **3078667** Units: **µmhos/cm**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	100	10	100.2	0	101	85	115	0.295	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203F61**

12-May-22

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **MB-66897**	SampType: **MBLK**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **PBW**	Batch ID: **66897**	RunNo: **87314**
Prep Date: **4/18/2022**	Analysis Date: **4/18/2022**	SeqNo: **3087633** Units: **mg/L**

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

Sample ID: **LCSLL-66897**	SampType: **LCSLL**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **BatchQC**	Batch ID: **66897**	RunNo: **87314**
Prep Date: **4/18/2022**	Analysis Date: **4/18/2022**	SeqNo: **3087634** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020	0.0001500	0	95.6	50	150			

Sample ID: **LCS-66897**	SampType: **LCS**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **LCSW**	Batch ID: **66897**	RunNo: **87314**
Prep Date: **4/18/2022**	Analysis Date: **4/18/2022**	SeqNo: **3087635** 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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203F61**

12-May-22

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **MB-A**	SampType: **MBLK**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **PBW**	Batch ID: **A87057**	RunNo: **87057**
Prep Date:	Analysis Date: **4/5/2022**	SeqNo: **3077196** Units: **mg/L**

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

Sample ID: **LCS-A**	SampType: **LCS**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **A87057**	RunNo: **87057**
Prep Date:	Analysis Date: **4/5/2022**	SeqNo: **3077198** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	55	1.0	50.00	0	111	80	120			
Magnesium	53	1.0	50.00	0	107	80	120			
Potassium	53	1.0	50.00	0	106	80	120			

Sample ID: **LCSD-A**	SampType: **LCSD**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **LCSS02**	Batch ID: **A87057**	RunNo: **87057**
Prep Date:	Analysis Date: **4/5/2022**	SeqNo: **3077199** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	56	1.0	50.00	0	112	80	120	0.933	20	
Magnesium	54	1.0	50.00	0	108	80	120	0.834	20	
Potassium	53	1.0	50.00	0	107	80	120	0.832	20	

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **PBW**	Batch ID: **A87128**	RunNo: **87128**
Prep Date:	Analysis Date: **4/8/2022**	SeqNo: **3080438** Units: **mg/L**

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

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **A87128**	RunNo: **87128**
Prep Date:	Analysis Date: **4/8/2022**	SeqNo: **3080440** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	48	1.0	50.00	0	95.4	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203F61**
12-May-22

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **MB-66512**	SampType: **MBLK**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW**	Batch ID: **66512**	RunNo: **86886**
Prep Date: **3/30/2022**	Analysis Date: **3/31/2022**	SeqNo: **3069692** Units: **mg/L**

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

Sample ID: **LCS-66512**	SampType: **LCS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW**	Batch ID: **66512**	RunNo: **86886**
Prep Date: **3/30/2022**	Analysis Date: **3/31/2022**	SeqNo: **3069694** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.52	0.030	0.5000	0	105	80	120			
Barium	0.51	0.0020	0.5000	0	102	80	120			
Cadmium	0.51	0.0020	0.5000	0	102	80	120			
Chromium	0.52	0.0060	0.5000	0	103	80	120			
Lead	0.51	0.020	0.5000	0	101	80	120			
Selenium	0.51	0.050	0.5000	0	103	80	120			
Silver	0.10	0.0050	0.1000	0	105	80	120			

Sample ID: **LCSD-66512**	SampType: **LCSD**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSS02**	Batch ID: **66512**	RunNo: **86886**
Prep Date: **3/30/2022**	Analysis Date: **3/31/2022**	SeqNo: **3069695** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.52	0.030	0.5000	0	103	80	120	1.87	20	
Barium	0.51	0.0020	0.5000	0	102	80	120	0.468	20	
Cadmium	0.51	0.0020	0.5000	0	102	80	120	0.199	20	
Chromium	0.51	0.0060	0.5000	0	103	80	120	0.663	20	
Lead	0.50	0.020	0.5000	0	101	80	120	0.444	20	
Selenium	0.52	0.050	0.5000	0	104	80	120	0.693	20	
Silver	0.10	0.0050	0.1000	0	102	80	120	2.15	20	

Sample ID: **MB-66512**	SampType: **MBLK**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW**	Batch ID: **66512**	RunNo: **87086**
Prep Date: **3/30/2022**	Analysis Date: **4/6/2022**	SeqNo: **3078545** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.030								

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203F61**
12-May-22

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **LCS-66512**	SampType: **LCS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW**	Batch ID: **66512**	RunNo: **87086**
Prep Date: **3/30/2022**	Analysis Date: **4/6/2022**	SeqNo: **3078547** 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	97.7	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203F61**

12-May-22

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **mb-1 alk**	SampType: **mblk**	TestCode: **SM2320B: Alkalinity**							
Client ID: **PBW**	Batch ID: **R87028**	RunNo: **87028**							
Prep Date:	Analysis Date: **4/5/2022**	SeqNo: **3075482**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: **lcs-1 alk**	SampType: **lcs**	TestCode: **SM2320B: Alkalinity**							
Client ID: **LCSW**	Batch ID: **R87028**	RunNo: **87028**							
Prep Date:	Analysis Date: **4/5/2022**	SeqNo: **3075483**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	73.64	20.00	80.00	0	92.0	90	110			

Sample ID: **mb-2 alk**	SampType: **mblk**	TestCode: **SM2320B: Alkalinity**							
Client ID: **PBW**	Batch ID: **R87028**	RunNo: **87028**							
Prep Date:	Analysis Date: **4/5/2022**	SeqNo: **3075505**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: **lcs-2 alk**	SampType: **lcs**	TestCode: **SM2320B: Alkalinity**							
Client ID: **LCSW**	Batch ID: **R87028**	RunNo: **87028**							
Prep Date:	Analysis Date: **4/5/2022**	SeqNo: **3075506**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	73.84	20.00	80.00	0	92.3	90	110			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203F61**
12-May-22

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **MB-66619**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**							
Client ID: **PBW**	Batch ID: **66619**	RunNo: **87066**							
Prep Date: **4/5/2022**	Analysis Date: **4/7/2022**	SeqNo: **3077588**	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-66619**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**							
Client ID: **LCSW**	Batch ID: **66619**	RunNo: **87066**							
Prep Date: **4/5/2022**	Analysis Date: **4/7/2022**	SeqNo: **3077589**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1010	20.0	1000	0	101	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Souder, Miller and Associates | Work Order Number: 2203F61 | RcptNo: 1

Received By: Tracy Casarrubias 3/30/2022 7:55:00 AM

Completed By: Tracy Casarrubias 3/30/2022 8:27:50 AM

Reviewed By: DAD 3/30/22

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐ JR 3/30/22
8. Was preservative added to bottles? Yes ☑ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☑ No ☐
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐ # of preserved bottles checked for pH: 3 2 (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐ Adjusted? yes
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐ Checked by: JR 3/30/22

Special Handling (if applicable)

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

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

16. Additional remarks: Poured off 175ml from sample 001C. For orp analysis. 400ml of HNO3 was added to sample 001D for ph<2. JR 3/30/22.
17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.9	Good	Yes			

Released to Imaging: 10/2/2023 4:00:31 PM
Received by OCD: 10/2/2023 3:49:18 PM

Chain-of-Custody Record

Client: Souder Miller & Associates

Mailing Address: 401 West Broadway
Farmington, NM 87401

Phone #: (505) 325-7535

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

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Agua Moss Sunco #1

Project #:

Project Manager: Heather Woods

Sampler: Heather Woods
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp (Including CF): 1.2 - 0.3 = 0.9 (°C)

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2203F61
3/29/22	0920	Aq	S-21 (3/29/22)	(5) 1L Amber	Non	
				(2) 500mL Plastic	Non	
				(1) 500mL Plastic	Zinc acetate / NaOH	
				(1) 125mL Plastic	Filtered HNO_3	
				(1) 125mL Plastic	H_2SO_4	
				(1) 250mL Plastic	HNO_3	
				(1) 250mL Plastic	NaOH	
				(3) 40mL VOA	HCl	

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	See Attached Sheet (2 pg)
										X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
3/29/22	1702	Heather M. Woods	Monica Wade		3/29/22	1702
3/29/22	1803	Monica Wade		Courier	3/30/22	7:55

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

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

Received by OCD: 10/2/2023 3:49:18 PM

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

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

Released to Imaging: 10/2/2023 4:00:31 PM

D036	Nitrobenzene	8091 8270D	0.0
D037	Pentrechlorophenol	8041	100.0
D038	Pyridine	8260B 8270D	5.0
D010	Selenium	1311	1.0
D011	Silver	1311	5.0
D039	Tetrachloroethylene	8260B	0.7
D040	Trichloroethylene	8021B 8260B	0.5
D041	2,4,5-Trichlorophenol	8270D	400.0
D042	2,4,6-Trichlorophenol	8041A 8270D	2.0
D043	Vinyl chloride	8021B 8260B	0.2

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

ADDTIONALLY:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 20, 2022

Heather Woods

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

RE: Agua Moss Sunco 1 OrderNo.: 2206E59

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/28/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2206E59**
Date Reported: **7/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: S-22 (06/27/22)
Project: Agua Moss Sunco 1
Collection Date: 6/27/2022 3:00:00 PM
Lab ID: 2206E59-001 **Matrix:** AQUEOUS **Received Date:** 6/28/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8081: PESTICIDES TCLP						Analyst:	**JME**
Chlordane	ND	0.030		mg/L	1	7/15/2022 10:33:20 AM	68482
Surr: Decachlorobiphenyl	36.9	48.4-132	S	%Rec	1	7/15/2022 10:33:20 AM	68482
Surr: Tetrachloro-m-xylene	292	29.4-106	S	%Rec	1	7/15/2022 10:33:20 AM	68482
EPA METHOD 8270C TCLP						Analyst:	**JME**
2-Methylphenol	ND	200		mg/L	1	7/14/2022 3:39:38 AM	68477
3+4-Methylphenol	ND	200		mg/L	1	7/14/2022 3:39:38 AM	68477
2,4-Dinitrotoluene	ND	0.13		mg/L	1	7/14/2022 3:39:38 AM	68477
Hexachlorobenzene	ND	0.13		mg/L	1	7/14/2022 3:39:38 AM	68477
Hexachlorobutadiene	ND	0.50		mg/L	1	7/14/2022 3:39:38 AM	68477
Hexachloroethane	ND	3.0		mg/L	1	7/14/2022 3:39:38 AM	68477
Nitrobenzene	ND	2.0		mg/L	1	7/14/2022 3:39:38 AM	68477
Pentachlorophenol	ND	100		mg/L	1	7/14/2022 3:39:38 AM	68477
Pyridine	ND	5.0		mg/L	1	7/14/2022 3:39:38 AM	68477
2,4,5-Trichlorophenol	ND	400		mg/L	1	7/14/2022 3:39:38 AM	68477
2,4,6-Trichlorophenol	ND	2.0		mg/L	1	7/14/2022 3:39:38 AM	68477
Cresols, Total	ND	200		mg/L	1	7/14/2022 3:39:38 AM	68477
Surr: 2-Fluorophenol	27.3	18.1-88.9		%Rec	1	7/14/2022 3:39:38 AM	68477
Surr: Phenol-d5	21.2	17-61.5		%Rec	1	7/14/2022 3:39:38 AM	68477
Surr: 2,4,6-Tribromophenol	36.0	29.8-104		%Rec	1	7/14/2022 3:39:38 AM	68477
Surr: Nitrobenzene-d5	35.7	22.2-111		%Rec	1	7/14/2022 3:39:38 AM	68477
Surr: 2-Fluorobiphenyl	33.0	24.6-96.3		%Rec	1	7/14/2022 3:39:38 AM	68477
Surr: 4-Terphenyl-d14	62.0	53.4-124		%Rec	1	7/14/2022 3:39:38 AM	68477
SPECIFIC GRAVITY						Analyst:	**CAS**
Specific Gravity	1.124	0			1	6/30/2022 3:28:00 PM	R89169
EPA METHOD 300.0: ANIONS						Analyst:	**JMT**
Fluoride	ND	5.0		mg/L	50	6/29/2022 9:58:55 PM	R89146
Chloride	20000	1000	*	mg/L	2E+	6/29/2022 10:11:16 PM	R89146
Bromide	140	2.0		mg/L	20	6/28/2022 4:15:49 PM	R89101
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	6/28/2022 4:02:57 PM	R89101
Sulfate	5.0	2.5		mg/L	5	6/28/2022 4:02:57 PM	R89101
Nitrate+Nitrite as N	ND	20		mg/L	100	7/5/2022 3:31:20 PM	R89249
SM2510B: SPECIFIC CONDUCTANCE						Analyst:	**MRA**
Conductivity	67000	500		µmhos/c	50	7/11/2022 12:48:17 PM	R89444
SM2320B: ALKALINITY						Analyst:	**LRN**
Bicarbonate (As CaCO3)	893.3	20.00		mg/L Ca	1	7/5/2022 6:35:21 PM	R89223
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	7/5/2022 6:35:21 PM	R89223
Total Alkalinity (as CaCO3)	893.3	20.00		mg/L Ca	1	7/5/2022 6:35:21 PM	R89223

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

Qualifiers:

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

Analytical Report
Lab Order **2206E59**
Date Reported: **7/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Project: Agua Moss Sunco 1
Lab ID: 2206E59-001 **Matrix:** AQUEOUS

Client Sample ID: S-22 (06/27/22)
Collection Date: 6/27/2022 3:00:00 PM
Received Date: 6/28/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	32100	100	*D	mg/L	1	7/1/2022 6:39:00 PM	68467
SM4500-H+B / 9040C: PH						Analyst: **LRN**	
pH	7.69		H	pH units	1	7/5/2022 6:35:21 PM	R89223
EPA METHOD 7470A: MERCURY						Analyst: **VP**	
Mercury	ND	0.020		mg/L	1	7/6/2022 11:00:18 AM	68557
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **JRR**	
Calcium	180	5.0		mg/L	5	6/29/2022 12:33:57 PM	A89148
Magnesium	70	1.0		mg/L	1	6/29/2022 10:55:07 AM	A89148
Potassium	58	1.0		mg/L	1	6/29/2022 10:55:07 AM	A89148
Sodium	13000	500		mg/L	500	6/29/2022 12:37:46 PM	A89148
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **JRR**	
Arsenic	ND	5.0		mg/L	1	6/29/2022 11:32:27 AM	68432
Barium	ND	100		mg/L	50	7/7/2022 12:38:54 PM	68432
Cadmium	ND	1.0		mg/L	1	6/29/2022 11:32:27 AM	68432
Chromium	ND	5.0		mg/L	1	6/29/2022 11:32:27 AM	68432
Lead	ND	5.0		mg/L	1	6/29/2022 11:32:27 AM	68432
Selenium	ND	1.0		mg/L	1	7/7/2022 12:34:55 PM	68432
Silver	ND	5.0		mg/L	1	6/29/2022 11:32:27 AM	68432
TCLP VOLATILES BY 8260B						Analyst: **BRM**	
Benzene	1.7	0.50		mg/L	200	7/2/2022 1:42:05 PM	D89211
1,2-Dichloroethane (EDC)	ND	0.50		mg/L	200	7/2/2022 1:42:05 PM	D89211
2-Butanone	ND	200		mg/L	200	7/2/2022 1:42:05 PM	D89211
Carbon Tetrachloride	ND	0.50		mg/L	200	7/2/2022 1:42:05 PM	D89211
Chloroform	ND	6.0		mg/L	200	7/2/2022 1:42:05 PM	D89211
1,4-Dichlorobenzene	ND	7.5		mg/L	200	7/2/2022 1:42:05 PM	D89211
1,1-Dichloroethene	ND	0.70		mg/L	200	7/2/2022 1:42:05 PM	D89211
Tetrachloroethene (PCE)	ND	0.70		mg/L	200	7/2/2022 1:42:05 PM	D89211
Trichloroethene (TCE)	ND	0.50		mg/L	200	7/2/2022 1:42:05 PM	D89211
Vinyl chloride	ND	0.20		mg/L	200	7/2/2022 1:42:05 PM	D89211
Chlorobenzene	ND	100		mg/L	200	7/2/2022 1:42:05 PM	D89211
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	200	7/2/2022 1:42:05 PM	D89211
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	200	7/2/2022 1:42:05 PM	D89211
Surr: Dibromofluoromethane	105	70-130		%Rec	200	7/2/2022 1:42:05 PM	D89211
Surr: Toluene-d8	100	70-130		%Rec	200	7/2/2022 1:42:05 PM	D89211

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

Qualifiers:

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

ANALYTICAL REPORT

July 14, 2022

Hall Environmental Analysis Laboratory

Sample Delivery Group: L1510492

Samples Received: 06/30/2022

Project Number:

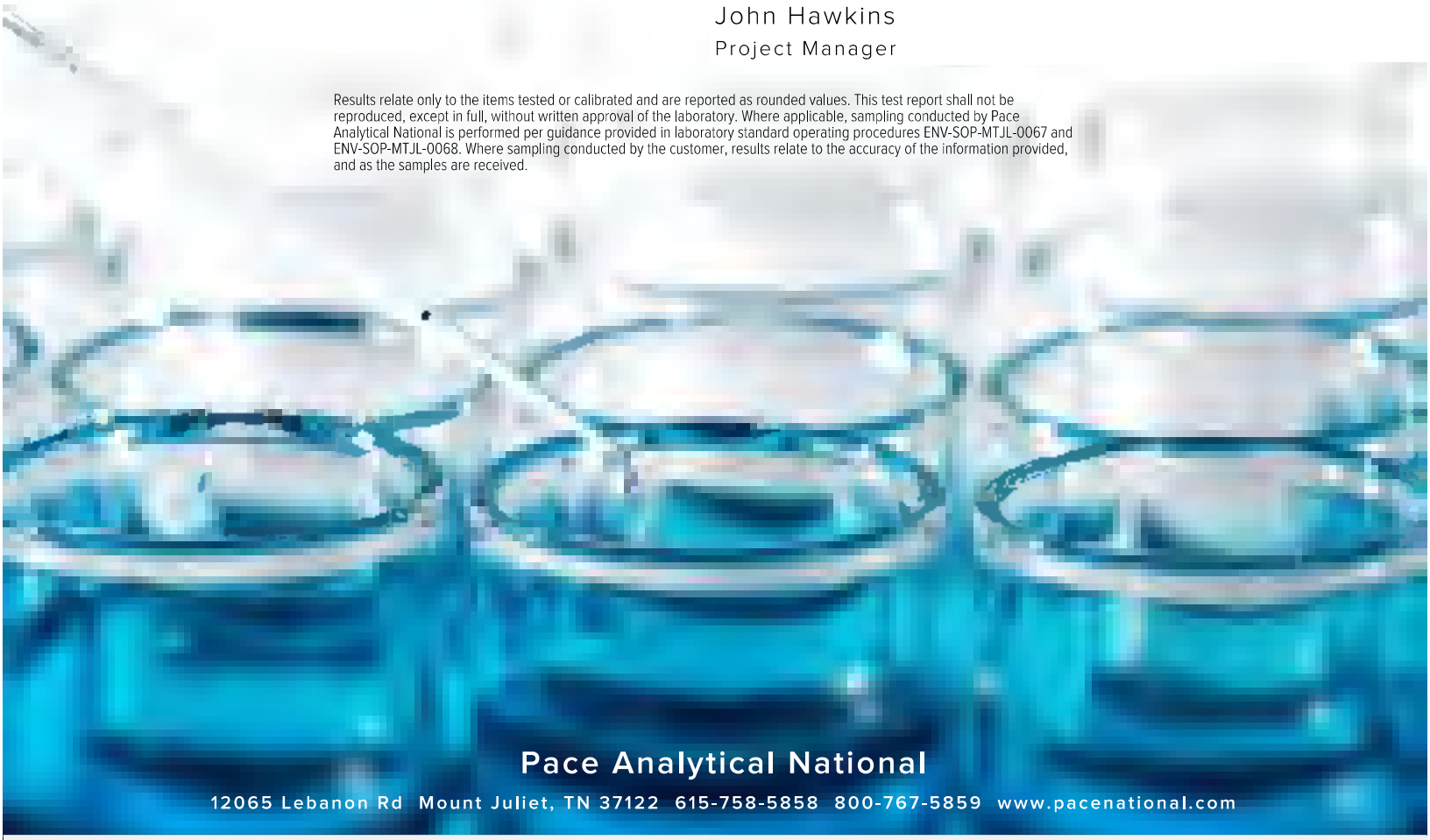
Description:

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

Entire Report Reviewed By:

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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TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

2206E59-001F S-22 (06/27/22) L1510492-01 5

Qc: Quality Control Summary 6

Wet Chemistry by Method 2580 6

Wet Chemistry by Method 4500 CN E-2016 7

Wet Chemistry by Method 4500 S2 D-2011 8

Wet Chemistry by Method 9040C 9

Wet Chemistry by Method D93/1010A 10

Gl: Glossary of Terms 11

Al: Accreditations & Locations 12

Sc: Sample Chain of Custody 13

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SAMPLE SUMMARY

2206E59-001F S-22 (06/27/22) L1510492-01 GW

			Collected by	Collected date/time	Received date/time	
				06/27/22 15:00	06/30/22 09:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2580	WG1891794	1	07/13/22 13:16	07/13/22 13:16	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500 CN E-2016	WG1889365	1	07/05/22 07:54	07/07/22 19:43	CAT	Mt. Juliet, TN
Wet Chemistry by Method 4500 S2 D-2011	WG1889770	1	07/04/22 15:05	07/04/22 15:05	CRB	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG1893462	1	07/12/22 15:35	07/12/22 15:35	NTG	Mt. Juliet, TN
Wet Chemistry by Method D93/1010A	WG1890254	1	07/05/22 23:00	07/05/22 23:00	WOS	Mt. Juliet, TN

CASE NARRATIVE

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

John Hawkins
Project Manager

Project Narrative

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

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Wet Chemistry by Method 2580

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	mV			date / time	
ORP	-83.5	T8	1	07/13/2022 13:16	WG1891794

Wet Chemistry by Method 4500 CN E-2016

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Cyanide	ND		0.00500	1	07/07/2022 19:43	WG1889365

Wet Chemistry by Method 4500 S2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Sulfide	ND		0.0500	1	07/04/2022 15:05	WG1889770

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	7.55	T8	1	07/12/2022 15:35	WG1893462

Sample Narrative:

L1510492-01 WG1893462: 7.55 at 23.5C

Wet Chemistry by Method D93/1010A

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	deg F			date / time	
Flashpoint	DNF at 170		1	07/05/2022 23:00	WG1890254

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L1505736-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1505736-01 07/13/22 13:16 • (DUP) R3814296-3 07/13/22 13:16

Analyte	Original Result mV	DUP Result mV	Dilution	DUP Diff mV	DUP Qualifier	DUP Diff Limits mV
ORP	176	176	1	0.700		20

L1508843-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1508843-02 07/13/22 13:16 • (DUP) R3814296-4 07/13/22 13:16

Analyte	Original Result mV	DUP Result mV	Dilution	DUP Diff mV	DUP Qualifier	DUP Diff Limits mV
ORP	198	197	1	1.00		20

L1510492-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1510492-01 07/13/22 13:16 • (DUP) R3814296-5 07/13/22 13:16

Analyte	Original Result mV	DUP Result mV	Dilution	DUP Diff mV	DUP Qualifier	DUP Diff Limits mV
ORP	-83.5	-82.3	1	0.000		20

L1512255-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1512255-02 07/13/22 13:16 • (DUP) R3814296-6 07/13/22 13:16

Analyte	Original Result mV	DUP Result mV	Dilution	DUP Diff mV	DUP Qualifier	DUP Diff Limits mV
ORP	166	166	1	0.500		20

L1512255-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1512255-03 07/13/22 13:16 • (DUP) R3814296-7 07/13/22 13:16

Analyte	Original Result mV	DUP Result mV	Dilution	DUP Diff mV	DUP Qualifier	DUP Diff Limits mV
ORP	93.6	91.3	1	2.30		20

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

(LCS) R3814296-1 07/13/22 13:16 • (LCSD) R3814296-2 07/13/22 13:16

Analyte	Spike Amount mV	LCS Result mV	LCSD Result mV	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	Diff mV	Diff Limits mV
ORP	108	107	110	99.2	102	90.0-110			2.70	20

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Method Blank (MB)

(MB) R3812224-1 07/07/22 19:10

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

L1509260-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1509260-05 07/07/22 19:26 • (DUP) R3812224-5 07/07/22 19:27

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

L1509640-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1509640-01 07/07/22 19:54 • (DUP) R3812224-10 07/07/22 19:55

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Reactive Cyanide	ND	0.0104	1	119	P1	20

Laboratory Control Sample (LCS)

(LCS) R3812224-2 07/07/22 19:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Cyanide	0.100	0.0981	98.1	87.1-120	

L1509260-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1509260-01 07/07/22 19:17 • (MS) R3812224-3 07/07/22 19:18 • (MSD) R3812224-4 07/07/22 19:19

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	ND	0.0957	0.0956	92.9	92.8	1	90.0-110			0.105	20

L1509495-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1509495-03 07/07/22 19:29 • (MS) R3812224-6 07/07/22 19:30 • (MSD) R3812224-7 07/07/22 19:31

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	0.00786	0.103	0.0997	95.1	91.8	1	90.0-110			3.26	20

Released to Imaging: 10/2/2023 4:00:31 PM
Received by OCD: 10/2/2023 3:49:18 PM

QUALITY CONTROL SUMMARY

L1510492-01

Method Blank (MB)

(MB) R3810591-1 07/04/22 14:13

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

Laboratory Control Sample (LCS)

(LCS) R3810591-2 07/04/22 14:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Sulfide	0.500	0.514	103	85.0-115	

Page 53 of 673

Released to Imaging: 10/2/2023 4:00:31 PM
Received by OCD: 10/2/2023 3:49:18 PM

L1511823-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1511823-05 07/12/22 15:35 • (DUP) R3813875-2 07/12/22 15:35

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.16	7.14	1	0.280		1

Sample Narrative:
OS: 7.16 at 23.6C
DUP: 7.14 at 22.9C

L1512341-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1512341-01 07/12/22 15:35 • (DUP) R3813875-4 07/12/22 15:35

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.57	7.57	1	0.000		1

Sample Narrative:
OS: 7.57 at 24.5C
DUP: 7.57 at 25C

Laboratory Control Sample (LCS)

(LCS) R3813875-1 07/12/22 15:35

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	9.91	99.1	99.0-101	

Sample Narrative:
LCS: 9.91 at 23.8C

Released to Imaging: 10/2/2023 4:00:31 PM
Received by OCD: 10/2/2023 3:49:18 PM

L1510492-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1510492-01 07/05/22 23:00 • (DUP) R3811109-3 07/05/22 23:00

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

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

(LCS) R3811109-1 07/05/22 23:00 • (LCSD) R3811109-2 07/05/22 23:00

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	deg F	deg F	deg F	%	%	%			%	%
Flashpoint	126	130	126	103	99.9	96.0-104			3.13	10

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
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.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

Released to Imaging: 10/2/2023 4:00:31 PM
Received by OCD: 10/2/2023 3:49:18 PM

HALL ENVIRONMENTAL ANALYSIS LABORATORY

CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

F146

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

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

U510452

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2206E59-001F	S-22 (06/27/22)	500HDPE	Aqueous	6/27/2022 3:00:00 PM	3	RCI, ORP

-cl

Sample Receipt Checklist

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

0.2+0=0.2 DRFT

5755 8089 4307

SPECIAL INSTRUCTIONS / COMMENTS:

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

Relinquished By: CMC	Date: 6/28/2022	Time: 1:12 PM	Received By: M. Sunp	Date: 6/30/22	Time: 0930
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

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

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

FOR LAB USE ONLY

Temp of samples _____ C Attempt to Cool ? _____

Comments: _____

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206E59**

20-Jul-22

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R89101**	RunNo: **89101**
Prep Date:	Analysis Date: **6/28/2022**	SeqNo: **3166030** Units: **mg/L**

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

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R89101**	RunNo: **89101**
Prep Date:	Analysis Date: **6/28/2022**	SeqNo: **3166031** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	2.5	0.10	2.500	0	101	90	110			
Phosphorus, Orthophosphate (As P	4.6	0.50	5.000	0	93.0	90	110			
Sulfate	10	0.50	10.00	0	104	90	110			

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R89146**	RunNo: **89146**
Prep Date:	Analysis Date: **6/29/2022**	SeqNo: **3168036** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.100								
Chloride	ND	0.500								

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R89146**	RunNo: **89146**
Prep Date:	Analysis Date: **6/29/2022**	SeqNo: **3168037** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.500	0.100	0.5000	0	99.9	90	110			
Chloride	4.65	0.500	5.000	0	93.1	90	110			

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R89249**	RunNo: **89249**
Prep Date:	Analysis Date: **7/5/2022**	SeqNo: **3173045** Units: **mg/L**

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206E59**

20-Jul-22

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R89249**	RunNo: **89249**							
Prep Date:	Analysis Date: **7/5/2022**	SeqNo: **3173046**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.6	0.20	3.500	0	102	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206E59**

20-Jul-22

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **MB-68482**	SampType: **MBLK**	TestCode: **EPA Method 8081: Pesticides TCLP**							
Client ID: **PBW**	Batch ID: **68482**	RunNo: **89521**							
Prep Date: **6/30/2022**	Analysis Date: **7/15/2022**	SeqNo: **3187540**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chlordane	ND	0.030								
Surr: Decachlorobiphenyl	0.0016		0.002500		63.6	48.4	132			
Surr: Tetrachloro-m-xylene	0.00073		0.002500		29.1	29.4	106			S

Sample ID: **MB-68482**	SampType: **MBLK**	TestCode: **EPA Method 8081: Pesticides TCLP**							
Client ID: **PBW**	Batch ID: **68482**	RunNo: **89521**							
Prep Date: **6/30/2022**	Analysis Date: **7/15/2022**	SeqNo: **3187543**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chlordane	ND	0.030								
Surr: Decachlorobiphenyl	0.0015		0.002500		59.7	48.4	132			
Surr: Tetrachloro-m-xylene	0.00072		0.002500		28.8	29.4	106			S

Sample ID: **LCS-68482**	SampType: **LCS**	TestCode: **EPA Method 8081: Pesticides TCLP**							
Client ID: **LCSW**	Batch ID: **68482**	RunNo: **89521**							
Prep Date: **6/30/2022**	Analysis Date: **7/15/2022**	SeqNo: **3187544**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	0.0016		0.002500		62.8	48.4	132			
Surr: Tetrachloro-m-xylene	0.0010		0.002500		42.0	29.4	106			

Sample ID: **LCS-68482**	SampType: **LCS**	TestCode: **EPA Method 8081: Pesticides TCLP**							
Client ID: **LCSW**	Batch ID: **68482**	RunNo: **89521**							
Prep Date: **6/30/2022**	Analysis Date: **7/15/2022**	SeqNo: **3187547**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	0.0015		0.002500		58.3	48.4	132			
Surr: Tetrachloro-m-xylene	0.0010		0.002500		41.9	29.4	106			

Sample ID: **LCSD-68482**	SampType: **LCSD**	TestCode: **EPA Method 8081: Pesticides TCLP**							
Client ID: **LCSS02**	Batch ID: **68482**	RunNo: **89521**							
Prep Date: **6/30/2022**	Analysis Date: **7/15/2022**	SeqNo: **3187604**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	0.0020		0.002500		81.7	48.4	132	0	0	
Surr: Tetrachloro-m-xylene	0.0013		0.002500		50.8	29.4	106	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206E59**

20-Jul-22

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **LCSD-68482**	SampType: **LCSD**	TestCode: **EPA Method 8081: Pesticides TCLP**
Client ID: **LCSS02**	Batch ID: **68482**	RunNo: **89521**
Prep Date: **6/30/2022**	Analysis Date: **7/15/2022**	SeqNo: **3187605** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	0.0019		0.002500		76.1	48.4	132	0	0	
Surr: Tetrachloro-m-xylene	0.0013		0.002500		50.5	29.4	106	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206E59**

20-Jul-22

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **100ng lcs2** SampType: **LCS** TestCode: **TCLP Volatiles by 8260B**

Client ID: **LCSW** Batch ID: **D89211** RunNo: **89211**

Prep Date: Analysis Date: **7/2/2022** SeqNo: **3171195** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.021	0.00023	0.02000	0	105	70	130			
1,1-Dichloroethene	0.019	0.00020	0.02000	0	97.5	70	130			
Trichloroethene (TCE)	0.020	0.00020	0.02000	0	102	70	130			
Chlorobenzene	0.019	0.00016	0.02000	0	96.3	70	130			
Surr: 1,2-Dichloroethane-d4	0.010		0.01000		100	70	130			
Surr: 4-Bromofluorobenzene	0.011		0.01000		109	70	130			
Surr: Dibromofluoromethane	0.0099		0.01000		98.8	70	130			
Surr: Toluene-d8	0.0095		0.01000		95.1	70	130			

Sample ID: **2206e59-001a ms** SampType: **MS** TestCode: **TCLP Volatiles by 8260B**

Client ID: **S-22 (06/27/22)** Batch ID: **D89211** RunNo: **89211**

Prep Date: Analysis Date: **7/2/2022** SeqNo: **3171199** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.9	0.00023	2.000	1.704	108	70	130			
1,1-Dichloroethene	1.8	0.00020	2.000	0	92.2	70	130			
Trichloroethene (TCE)	1.9	0.00020	2.000	0	96.6	70	130			
Chlorobenzene	1.8	0.00016	2.000	0	88.3	70	130			
Surr: 1,2-Dichloroethane-d4	2.2		2.000		109	70	130			
Surr: 4-Bromofluorobenzene	1.9		2.000		96.0	70	130			
Surr: Dibromofluoromethane	2.1		2.000		107	70	130			
Surr: Toluene-d8	2.1		2.000		103	70	130			

Sample ID: **2206e59-001a msd** SampType: **MSD** TestCode: **TCLP Volatiles by 8260B**

Client ID: **S-22 (06/27/22)** Batch ID: **D89211** RunNo: **89211**

Prep Date: Analysis Date: **7/2/2022** SeqNo: **3171200** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.6	0.00023	2.000	1.704	92.5	70	130	8.27	20	
1,1-Dichloroethene	1.7	0.00020	2.000	0	85.0	70	130	8.09	20	
Trichloroethene (TCE)	1.8	0.00020	2.000	0	90.5	70	130	6.51	20	
Chlorobenzene	1.6	0.00016	2.000	0	80.0	70	130	9.90	20	
Surr: 1,2-Dichloroethane-d4	2.0		2.000		102	70	130	0	0	
Surr: 4-Bromofluorobenzene	2.0		2.000		100	70	130	0	0	
Surr: Dibromofluoromethane	2.0		2.000		102	70	130	0	0	
Surr: Toluene-d8	2.0		2.000		100	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206E59**

20-Jul-22

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **mb**	SampType: **MBLK**	TestCode: **TCLP Volatiles by 8260B**
Client ID: **PBW**	Batch ID: **D89211**	RunNo: **89211**
Prep Date:	Analysis Date: **7/2/2022**	SeqNo: **3171201** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.50								
1,2-Dichloroethane (EDC)	ND	0.50								
2-Butanone	ND	200								
Carbon Tetrachloride	ND	0.50								
Chloroform	ND	6.0								
1,4-Dichlorobenzene	ND	7.5								
1,1-Dichloroethene	ND	0.70								
Tetrachloroethene (PCE)	ND	0.70								
Trichloroethene (TCE)	ND	0.50								
Vinyl chloride	ND	0.20								
Chlorobenzene	ND	100								
Surr: 1,2-Dichloroethane-d4	0.011		0.01000		106	70	130			
Surr: 4-Bromofluorobenzene	0.010		0.01000		104	70	130			
Surr: Dibromofluoromethane	0.010		0.01000		103	70	130			
Surr: Toluene-d8	0.0098		0.01000		97.8	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206E59**

20-Jul-22

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **MB-68477**	SampType: **MBLK**	TestCode: **EPA Method 8270C TCLP**
Client ID: **PBW**	Batch ID: **68477**	RunNo: **89411**
Prep Date: **6/30/2022**	Analysis Date: **7/14/2022**	SeqNo: **3183325** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	ND	200								
3+4-Methylphenol	ND	200								
2,4-Dinitrotoluene	ND	0.13								
Hexachlorobenzene	ND	0.13								
Hexachlorobutadiene	ND	0.50								
Hexachloroethane	ND	3.0								
Nitrobenzene	ND	2.0								
Pentachlorophenol	ND	100								
Pyridine	ND	5.0								
2,4,5-Trichlorophenol	ND	400								
2,4,6-Trichlorophenol	ND	2.0								
Cresols, Total	ND	200								
Surr: 2-Fluorophenol	0.10		0.2000		52.0	18.1	88.9			
Surr: Phenol-d5	0.077		0.2000		38.6	17	61.5			
Surr: 2,4,6-Tribromophenol	0.13		0.2000		62.8	29.8	104			
Surr: Nitrobenzene-d5	0.064		0.1000		63.6	22.2	111			
Surr: 2-Fluorobiphenyl	0.055		0.1000		55.1	24.6	96.3			
Surr: 4-Terphenyl-d14	0.074		0.1000		74.0	53.4	124			

Sample ID: **LCS-68477**	SampType: **LCS**	TestCode: **EPA Method 8270C TCLP**
Client ID: **LCSW**	Batch ID: **68477**	RunNo: **89411**
Prep Date: **6/30/2022**	Analysis Date: **7/14/2022**	SeqNo: **3183326** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	0.057	0.00010	0.1000	0	56.9	19	106			
3+4-Methylphenol	0.12	0.00010	0.2000	0	58.0	16.3	112			
2,4-Dinitrotoluene	0.046	0.00010	0.1000	0	45.6	15	99.6			
Hexachlorobenzene	0.054	0.00010	0.1000	0	54.4	41.8	111			
Hexachlorobutadiene	0.042	0.00010	0.1000	0	42.1	15	91.5			
Hexachloroethane	0.053	0.00010	0.1000	0	53.0	15	87.5			
Nitrobenzene	0.057	0.00010	0.1000	0	56.6	19.3	114			
Pentachlorophenol	0.050	0.00010	0.1000	0	50.2	29	103			
Pyridine	0.033	0.00010	0.1000	0	33.2	15	92.6			
2,4,5-Trichlorophenol	0.057	0.00010	0.1000	0	57.1	25.2	114			
2,4,6-Trichlorophenol	0.059	0.00010	0.1000	0	58.7	25.7	112			
Cresols, Total	0.17	0.00010	0.3000	0	57.7	15	145			
Surr: 2-Fluorophenol	0.093		0.2000		46.7	18.1	88.9			
Surr: Phenol-d5	0.069		0.2000		34.7	17	61.5			
Surr: 2,4,6-Tribromophenol	0.12		0.2000		59.4	29.8	104			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206E59**

20-Jul-22

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **LCS-68477**	SampType: **LCS**	TestCode: **EPA Method 8270C TCLP**							
Client ID: **LCSW**	Batch ID: **68477**	RunNo: **89411**							
Prep Date: **6/30/2022**	Analysis Date: **7/14/2022**	SeqNo: **3183326**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Nitrobenzene-d5	0.063		0.1000		62.6	22.2	111			
Surr: 2-Fluorobiphenyl	0.055		0.1000		55.2	24.6	96.3			
Surr: 4-Terphenyl-d14	0.072		0.1000		72.3	53.4	124			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206E59**

20-Jul-22

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **lcs-1 99.6uS eC**	SampType: **lcs**	TestCode: **SM2510B: Specific Conductance**
Client ID: **LCSW**	Batch ID: **R89444**	RunNo: **89444**
Prep Date:	Analysis Date: **7/11/2022**	SeqNo: **3182163** Units: **µmhos/cm**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	100	10	99.60	0	103	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206E59**

20-Jul-22

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **MB-68557**	SampType: **MBLK**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **PBW**	Batch ID: **68557**	RunNo: **89254**
Prep Date: **7/5/2022**	Analysis Date: **7/6/2022**	SeqNo: **3173465** Units: **mg/L**

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

Sample ID: **LCSLL-68557**	SampType: **LCSLL**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **BatchQC**	Batch ID: **68557**	RunNo: **89254**
Prep Date: **7/5/2022**	Analysis Date: **7/6/2022**	SeqNo: **3173466** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020	0.0001500	0	84.7	50	150			

Sample ID: **LCS-68557**	SampType: **LCS**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **LCSW**	Batch ID: **68557**	RunNo: **89254**
Prep Date: **7/5/2022**	Analysis Date: **7/6/2022**	SeqNo: **3173467** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0047	0.00020	0.005000	0	94.8	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206E59**

20-Jul-22

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **MB-68432**	SampType: **MBLK**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW**	Batch ID: **68432**	RunNo: **89148**
Prep Date: **6/28/2022**	Analysis Date: **6/29/2022**	SeqNo: **3168304** Units: **mg/L**

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

Sample ID: **LCS-68432**	SampType: **LCS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW**	Batch ID: **68432**	RunNo: **89148**
Prep Date: **6/28/2022**	Analysis Date: **6/29/2022**	SeqNo: **3168306** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.47	0.030	0.5000	0	94.7	80	120			
Barium	0.47	0.0020	0.5000	0	94.2	80	120			
Cadmium	0.47	0.0020	0.5000	0	93.8	80	120			
Chromium	0.47	0.0060	0.5000	0	94.8	80	120			
Lead	0.49	0.020	0.5000	0	97.2	80	120			
Silver	0.096	0.0050	0.1000	0	96.2	80	120			

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW**	Batch ID: **A89148**	RunNo: **89148**
Prep Date:	Analysis Date: **6/29/2022**	SeqNo: **3168307** Units: **mg/L**

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

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW**	Batch ID: **A89148**	RunNo: **89148**
Prep Date:	Analysis Date: **6/29/2022**	SeqNo: **3168309** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	49	1.0	50.00	0	98.9	80	120			
Magnesium	51	1.0	50.00	0	101	80	120			
Potassium	50	1.0	50.00	0	100	80	120			
Sodium	47	1.0	50.00	0	94.8	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206E59**

20-Jul-22

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **MB-68432**	SampType: **MBLK**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW**	Batch ID: **68432**	RunNo: **89325**
Prep Date: **6/28/2022**	Analysis Date: **7/7/2022**	SeqNo: **3177043** Units: **mg/L**

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

Sample ID: **LCS-68432**	SampType: **LCS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW**	Batch ID: **68432**	RunNo: **89325**
Prep Date: **6/28/2022**	Analysis Date: **7/7/2022**	SeqNo: **3177045** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.47	0.0020	0.5000	0	93.4	80	120			
Cadmium	0.47	0.0020	0.5000	0	94.0	80	120			
Chromium	0.47	0.0060	0.5000	0	93.7	80	120			
Selenium	0.47	0.050	0.5000	0	94.2	80	120			
Silver	0.094	0.0050	0.1000	0	94.4	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206E59**

20-Jul-22

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **mb-1 alk**	SampType: **mblk**	TestCode: **SM2320B: Alkalinity**							
Client ID: **PBW**	Batch ID: **R89223**	RunNo: **89223**							
Prep Date:	Analysis Date: **7/5/2022**	SeqNo: **3172885**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: **lcs-1 alk**	SampType: **lcs**	TestCode: **SM2320B: Alkalinity**							
Client ID: **LCSW**	Batch ID: **R89223**	RunNo: **89223**							
Prep Date:	Analysis Date: **7/5/2022**	SeqNo: **3172886**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	78.12	20.00	80.00	0	97.6	90	110			

Sample ID: **mb-2 alk**	SampType: **mblk**	TestCode: **SM2320B: Alkalinity**							
Client ID: **PBW**	Batch ID: **R89223**	RunNo: **89223**							
Prep Date:	Analysis Date: **7/5/2022**	SeqNo: **3172903**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: **lcs-2 alk**	SampType: **lcs**	TestCode: **SM2320B: Alkalinity**							
Client ID: **LCSW**	Batch ID: **R89223**	RunNo: **89223**							
Prep Date:	Analysis Date: **7/5/2022**	SeqNo: **3172904**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	76.56	20.00	80.00	0	95.7	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206E59**

20-Jul-22

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **MB-68467**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW**	Batch ID: **68467**	RunNo: **89199**
Prep Date: **6/30/2022**	Analysis Date: **7/1/2022**	SeqNo: **3170769** 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-68467**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW**	Batch ID: **68467**	RunNo: **89199**
Prep Date: **6/30/2022**	Analysis Date: **7/1/2022**	SeqNo: **3170770** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1010	20.0	1000	0	101	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **Souder, Miller and Associates** Work Order Number: **2206E59** RcptNo: 1

Received By: **Cheyenne Cason** **6/28/2022 7:00:00 AM** Chel

Completed By: **Cheyenne Cason** **6/28/2022 7:31:46 AM** Chel

Reviewed By: KPG 6-28-22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☑	No ☑ JM 6/28/22.	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: 4 2 (<2 or >12 unless noted)

Adjusted? yes

Checked by: JM 6/28/22

Special Handling (if applicable)

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

Person Notified: Date:

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

Regarding:

Client Instructions:

16. Additional remarks: 0.4ml of HX103 was added to sample 001E, 001D for pH<2. JM 6/28/22.

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.3	Good	Yes			
2	2.5	Good	Yes			
3	3.7	Good	Yes			

Released to Imaging: 10/2/2023 4:00:31 PM
Received by OCD: 10/2/2023 3:49:18 PM

Chain-of-Custody Record

Client: Souder, Miller & Associates
401 West Broadway
Mailing Address: Farmington, NM 87401
Phone #: (505) 716-2787
email or Fax#: Heather.Woods@soudermiller.com
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush
Project Name: Agua Moss Sunco #1
Project #:
Project Manager: Heather Woods
Sampler: Heather Woods
On Ice: ☒ Yes ☐ No
# of Coolers: 3 1.4-0.1=1.3
Cooler Temp(including CF): 3.8-0.1=3.7 (°C) 2.6-0.1=2.5
HEAL No. 2206E59

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	See Attached (2 pages)
6/27/22	1500	Aq	S-22 (6/27/22)	(5) 1L Amber	Non	001											X
				(2) 500mL Plastic	Non.												
				(1) 500mL Plastic	Zinc Acetate NaOH												
				(1) 125mL Plastic	Filtered HNO_3												
				(1) 125mL Plastic	H_2SO_4												
				(2) 125mL Plastic	HNO_3												
				(1) 250mL Plastic	NaOH												
				(3) 40mL VOA	$HgCl_2$												

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
6/27/22	1708	Heather M. Woods	[signature]		6/27/22	1708
6/27/22	1840	[signature]	emc courier	Gleiser	0700	

Remarks:
Direct Bill to Agua Moss
Rates per Andy
Reporting limits per attachment (2 pgs)

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

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

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

D036	Nitrobenzene	8041 8270D	5.0
D037	Pentachlorophenol	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	100.0
D042	2,4,6-Trichlorophenol	8041A 8270D	2.0
D043	Vinyl chloride	8021B 8260B	0.2

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

ADDITIONALLY:

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

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

January 11, 2023 SMA Project No. 5129666

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

RE: Sunco Disposal #1 Injection Water Monitoring – 3rd Quarter 2022

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 3th Quarter 2022. 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-23, from the process line inside the pump building on August 29, 2022. 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-23) 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.

A dilution due to matrix qualifier is indicated on the laboratory report for total dissolved solids and reactive sulfide. A holding time exceedance qualifier was indicated for reactive cyanide and oxidation reduction potential. A surrogate recovery qualifier in exceedance of the anticipated range was indicated for chlordane.

Released to Imaging: 10/2/2023 4:00:31 PM

Data Evaluation

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

Closure and Limitations

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

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

Sincerely,

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

Heather M. Woods

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

Attachments:
Table 1. Summary of Field Screening and Laboratory Analytical Results
Laboratory Analytical Reports (Hall 2208H52)

Table 1:
Summary of Field Screening and Laboratory Analytical Results

AGUA MOSS LLC
SUNCO DISPOSAL #1
3RD QUARTER 2022 MONITORING

Sample ID	S-23			
Collection Date	8/29/2022			
Analyte	Field Results	Laboratory Results	Units	Toxicity Characteristic Concentrations
Arsenic	--	<5.0	mg/L	5.0 mg/L
Barium	--	<100	mg/L	100.0 mg/L
Benzene	--	0.55	mg/L	0.5 mg/L
Cadmium	--	<1.0	mg/L	1 mg/L
Carbon tertachloride	--	<0.50	mg/L	0.5 mg/L
Chlordane	--	<0.30	mg/L	0.03 mg/L
Chlorobenzene	--	<100	mg/L	100.0 mg/L
Chloroform	--	<6.0	mg/L	6.0 mg/L
Chromium	--	<5.0	mg/L	5.0 mg/L
o-Cresol	--	--	mg/L	200.0 mg/L
m+p-Cresol	--	--	mg/L	200.0 mg/L
Cresol	--	<200	mg/L	200.0 mg/L
1,4-Dichlorobenzene	--	<7.5	mg/L	7.5 mg/L
1,2-Dichloroethane	--	<0.50	mg/L	0.5 mg/L
1,1-Dichloroethylene	--	<0.70	mg/L	0.7 mg/L
2,4-Dinitrotoluene	--	<0.13	mg/L	0.13 mg/L
Hexachlorobenzene	--	<0.13	mg/L	0.13 mg/L
Hexachlorobutadiene	--	<0.50	mg/L	0.5 mg/L
Hexachloroethane	--	<3.0	mg/L	3.0 mg/L
Lead	--	<5.0	mg/L	5.0 mg/L
Mercury	--	<0.020	mg/L	0.2 mg/L
Methyl ethyl ketone	--	<200	mg/L	200.0 mg/L
Nitrobenzene	--	<2.0	mg/L	2.0 mg/L
Pentachlorophenol	--	<100	mg/L	100.0 mg/L
Pyridine	--	<5.0	mg/L	5.0 mg/L
Selenium	--	<1.0	mg/L	1.0 mg/L
Silver	--	<5.0	mg/L	5.0 mg/L
Tetrachloroethylene	--	<0.70	mg/L	0.7 mg/L
Trichloroethylene	--	<0.50	mg/L	0.5 mg/L
2,4,5-Trichlorophenol	--	<400	mg/L	400.0 mg/L
2,4,6-Trichlorophenol	--	<2.0	mg/L	2.0 mg/L
Vinyl chloride	--	<0.20	mg/L	0.2 mg/L
Reactive sulfide	--	0.240 D H	mg/L	
Reactive cyanide	--	<0.00500	mg/L	
Corrosivity by pH	--	7.29 H	s.u.	
Ignitability	--	DNF at 170	deg F	
Specific conductance	62,600	68,000	µmhos/cm	
Specific gravity	--	1.024		
ORP	120.1	-41.5 H	mV	
Fluoride	--	<1.0	mg/L	
Calcium	--	240	mg/L	
Potassium	--	88	mg/L	
Magnesium	--	69	mg/L	
Bicarbonate (as CaCO3)	--	840.0	mg/L Ca	
Carbonate (as CaCO3)	--	<2.000	mg/L Ca	
Chloride	--	16,000	mg/L	
Sulfate	--	840.0	mg/L	
Total dissolved solids	34,200	32,600 D	mg/L	
pH	7.07	7.41 H		
Bromide	--	73	mg/L	
Temperature	27.8	--	deg C	

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

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

January 11, 2023

Heather Woods

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

RE: Agua Moss Sunco 1 OrderNo.: 2208H52

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/30/2022 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued September 26, 2022.

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. 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. All samples are reported as received unless otherwise indicated.

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2208H52**
Date Reported: **1/11/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: S-23 (08/29/22)
Project: Agua Moss Sunco 1
Collection Date: 8/29/2022 12:00:00 PM
Lab ID: 2208H52-001 **Matrix:** AQUEOUS **Received Date:** 8/30/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8081: PESTICIDES TCLP						Analyst:	**mb**
Chlordane	ND	0.30		mg/L	1	9/6/2022 1:09:10 PM	69868
Surr: Decachlorobiphenyl	65.1	40.9-111		%Rec	1	9/6/2022 1:09:10 PM	69868
Surr: Tetrachloro-m-xylene	1100	15-107	S	%Rec	1	9/6/2022 1:09:10 PM	69868
EPA METHOD 8270C TCLP						Analyst:	**JME**
2-Methylphenol	ND	200		mg/L	1	9/7/2022 1:57:52 PM	69905
3+4-Methylphenol	ND	200		mg/L	1	9/7/2022 1:57:52 PM	69905
2,4-Dinitrotoluene	ND	0.13		mg/L	1	9/7/2022 1:57:52 PM	69905
Hexachlorobenzene	ND	0.13		mg/L	1	9/7/2022 1:57:52 PM	69905
Hexachlorobutadiene	ND	0.50		mg/L	1	9/7/2022 1:57:52 PM	69905
Hexachloroethane	ND	3.0		mg/L	1	9/7/2022 1:57:52 PM	69905
Nitrobenzene	ND	2.0		mg/L	1	9/7/2022 1:57:52 PM	69905
Pentachlorophenol	ND	100		mg/L	1	9/7/2022 1:57:52 PM	69905
Pyridine	ND	5.0		mg/L	1	9/7/2022 1:57:52 PM	69905
2,4,5-Trichlorophenol	ND	400		mg/L	1	9/7/2022 1:57:52 PM	69905
2,4,6-Trichlorophenol	ND	2.0		mg/L	1	9/7/2022 1:57:52 PM	69905
Cresols, Total	ND	200		mg/L	1	9/7/2022 1:57:52 PM	69905
Surr: 2-Fluorophenol	27.6	18.1-88.9		%Rec	1	9/7/2022 1:57:52 PM	69905
Surr: Phenol-d5	21.5	17-61.5		%Rec	1	9/7/2022 1:57:52 PM	69905
Surr: 2,4,6-Tribromophenol	43.6	29.8-104		%Rec	1	9/7/2022 1:57:52 PM	69905
Surr: Nitrobenzene-d5	36.6	22.2-111		%Rec	1	9/7/2022 1:57:52 PM	69905
Surr: 2-Fluorobiphenyl	36.0	24.6-96.3		%Rec	1	9/7/2022 1:57:52 PM	69905
Surr: 4-Terphenyl-d14	59.6	53.4-124		%Rec	1	9/7/2022 1:57:52 PM	69905
SPECIFIC GRAVITY						Analyst:	**CAS**
Specific Gravity	1.024	0			1	9/1/2022 1:30:00 PM	R90739
EPA METHOD 300.0: ANIONS						Analyst:	**JTT**
Fluoride	ND	1.0		mg/L	10	9/13/2022 10:55:11 PM	R91014
Chloride	16000	1000	*	mg/L	2E+	9/9/2022 5:40:16 PM	R90955
Bromide	73	2.0		mg/L	20	8/31/2022 4:33:56 AM	A90664
Phosphorus, Orthophosphate (As P)	ND	2.5	H	mg/L	5	9/12/2022 3:45:57 PM	R90973
Sulfate	840	10	*	mg/L	20	8/31/2022 4:33:56 AM	A90664
Nitrate+Nitrite as N	ND	20		mg/L	100	9/9/2022 10:00:46 PM	R90955
SM2510B: SPECIFIC CONDUCTANCE						Analyst:	**JTT**
Conductivity	68000	500		µmhos/c	50	9/8/2022 2:05:09 PM	R90925
SM2320B: ALKALINITY						Analyst:	**CAS**
Bicarbonate (As CaCO3)	840.0	20.00		mg/L Ca	1	8/31/2022 12:00:30 PM	R90758
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	8/31/2022 12:00:30 PM	R90758
Total Alkalinity (as CaCO3)	840.0	20.00		mg/L Ca	1	8/31/2022 12:00:30 PM	R90758

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

Qualifiers:

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

Analytical Report
Lab Order **2208H52**
Date Reported: **1/11/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: S-23 (08/29/22)
Project: Agua Moss Sunco 1
Collection Date: 8/29/2022 12:00:00 PM
Lab ID: 2208H52-001 **Matrix:** AQUEOUS **Received Date:** 8/30/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**SNS**
Total Dissolved Solids	32600	200	*D	mg/L	1	9/1/2022 4:25:00 PM	69880
SM4500-H+B / 9040C: PH						Analyst:	**CAS**
pH	7.41		H	pH units	1	8/31/2022 12:00:30 PM	R90758
EPA METHOD 7470A: MERCURY						Analyst:	**VP**
Mercury	ND	0.020		mg/L	1	9/8/2022 8:03:22 AM	70001
EPA METHOD 6010B: DISSOLVED METALS						Analyst:	**JRR**
Calcium	240	5.0		mg/L	5	9/7/2022 4:10:41 PM	A90876
Magnesium	69	1.0		mg/L	1	9/7/2022 4:08:10 PM	A90876
Potassium	88	1.0		mg/L	1	9/7/2022 4:08:10 PM	A90876
Sodium	14000	200		mg/L	200	9/12/2022 11:56:39 AM	A90989
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst:	**JRR**
Arsenic	ND	5.0		mg/L	1	9/14/2022 9:50:52 AM	69883
Barium	ND	100		mg/L	5	9/14/2022 9:53:21 AM	69883
Cadmium	ND	1.0		mg/L	1	9/14/2022 9:50:52 AM	69883
Chromium	ND	5.0		mg/L	1	9/14/2022 9:50:52 AM	69883
Lead	ND	5.0		mg/L	1	9/14/2022 9:50:52 AM	69883
Selenium	ND	1.0		mg/L	1	9/14/2022 9:50:52 AM	69883
Silver	ND	5.0		mg/L	1	9/14/2022 9:50:52 AM	69883
TCLP VOLATILES BY 8260B						Analyst:	**CCM**
Benzene	0.55	0.50		mg/L	200	9/2/2022 1:20:00 PM	T90814
1,2-Dichloroethane (EDC)	ND	0.50		mg/L	200	9/2/2022 1:20:00 PM	T90814
2-Butanone	ND	200		mg/L	200	9/2/2022 1:20:00 PM	T90814
Carbon Tetrachloride	ND	0.50		mg/L	200	9/2/2022 1:20:00 PM	T90814
Chloroform	ND	6.0		mg/L	200	9/2/2022 1:20:00 PM	T90814
1,4-Dichlorobenzene	ND	7.5		mg/L	200	9/2/2022 1:20:00 PM	T90814
1,1-Dichloroethene	ND	0.70		mg/L	200	9/2/2022 1:20:00 PM	T90814
Tetrachloroethene (PCE)	ND	0.70		mg/L	200	9/2/2022 1:20:00 PM	T90814
Trichloroethene (TCE)	ND	0.50		mg/L	200	9/2/2022 1:20:00 PM	T90814
Vinyl chloride	ND	0.20		mg/L	200	9/2/2022 1:20:00 PM	T90814
Chlorobenzene	ND	100		mg/L	200	9/2/2022 1:20:00 PM	T90814
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	200	9/2/2022 1:20:00 PM	T90814
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	200	9/2/2022 1:20:00 PM	T90814
Surr: Dibromofluoromethane	99.8	70-130		%Rec	200	9/2/2022 1:20:00 PM	T90814
Surr: Toluene-d8	94.4	70-130		%Rec	200	9/2/2022 1:20:00 PM	T90814

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

Qualifiers:

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

Pace Analytical®

ANALYTICAL REPORT

September 26, 2022

Hall Environmental Analysis Laboratory

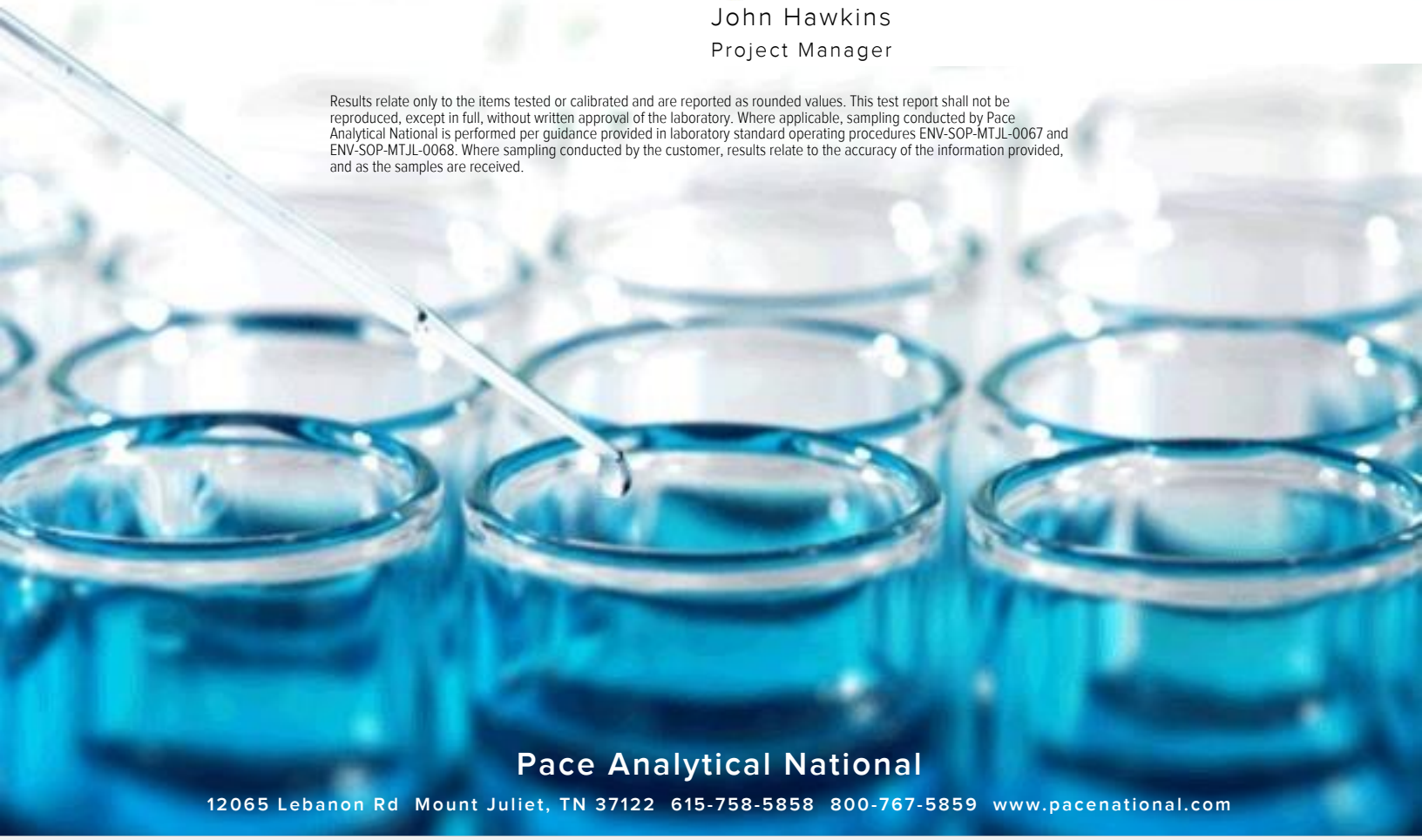
Sample Delivery Group:	L1531166
Samples Received:	08/31/2022
Project Number:	
Description:	

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

Entire Report Reviewed By:

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

TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

2208H52-001F S-23 (08/29/22) L1531166-01 5

Qc: Quality Control Summary 6

Wet Chemistry by Method 2580 6

Wet Chemistry by Method 4500 CN E-2016 7

Wet Chemistry by Method 4500 S2 D-2011 8

Wet Chemistry by Method 4500H+ B-2011 9

Wet Chemistry by Method D93/1010A 10

Gl: Glossary of Terms 11

Al: Accreditations & Locations 12

Sc: Sample Chain of Custody 13

SAMPLE SUMMARY

2208H52-001F S-23 (08/29/22) L1531166-01 WW

	Collected by	Collected date/time	Received date/time
		08/29/22 12:00	08/31/22 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2580	WG1930572	1	09/23/22 07:03	09/23/22 07:03	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500 CN E-2016	WG1922967	10	09/08/22 17:18	09/09/22 14:55	CAT	Mt. Juliet, TN
Wet Chemistry by Method 4500 S2 D-2011	WG1929575	1	09/21/22 01:26	09/21/22 01:26	CRB	Mt. Juliet, TN
Wet Chemistry by Method 4500H+ B-2011	WG1923567	1	09/09/22 20:00	09/09/22 20:00	SGB	Mt. Juliet, TN
Wet Chemistry by Method D93/1010A	WG1919656	1	09/01/22 01:35	09/01/22 01:35	CRB	Mt. Juliet, TN

CASE NARRATIVE

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

John Hawkins
Project Manager

Project Narrative

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

Wet Chemistry by Method 2580

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	mV			date / time	
ORP	-41.5	T8	1	09/23/2022 07:03	WG1930572

Wet Chemistry by Method 4500 CN E-2016

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Cyanide	ND		0.0500	10	09/09/2022 14:55	WG1922967

Sample Narrative:

L1531166-01 WG1922967: Dilution due to sulfide interference.

Wet Chemistry by Method 4500 S2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Sulfide	0.240	J6 Q	0.0500	1	09/21/2022 01:26	WG1929575

Wet Chemistry by Method 4500H+ B-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
Corrosivity by pH	7.29	T8	1	09/09/2022 20:00	WG1923567

Sample Narrative:

L1531166-01 WG1923567: 7.29 at 20.7C

Wet Chemistry by Method D93/1010A

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	deg F			date / time	
Flashpoint	DNF at 170		1	09/01/2022 01:35	WG1919656

Received by OCD: 10/2/2023 3:49:18 PM

L1525924-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1525924-01 09/23/22 07:03 • (DUP) R3840503-3 09/23/22 07:03

Analyte	Original Result mV	DUP Result mV	Dilution	DUP Diff mV	DUP Qualifier	DUP Diff Limits mV
ORP	189	182	1	7.60		20

L1529397-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1529397-01 09/23/22 07:03 • (DUP) R3840503-4 09/23/22 07:03

Analyte	Original Result mV	DUP Result mV	Dilution	DUP Diff mV	DUP Qualifier	DUP Diff Limits mV
ORP	159	157	1	1.60		20

L1529397-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1529397-02 09/23/22 07:03 • (DUP) R3840503-5 09/23/22 07:03

Analyte	Original Result mV	DUP Result mV	Dilution	DUP Diff mV	DUP Qualifier	DUP Diff Limits mV
ORP	157	161	1	4.70		20

L1529397-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1529397-03 09/23/22 07:03 • (DUP) R3840503-6 09/23/22 07:03

Analyte	Original Result mV	DUP Result mV	Dilution	DUP Diff mV	DUP Qualifier	DUP Diff Limits mV
ORP	197	195	1	1.40		20

L1531166-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1531166-01 09/23/22 07:03 • (DUP) R3840503-7 09/23/22 07:03

Analyte	Original Result mV	DUP Result mV	Dilution	DUP Diff mV	DUP Qualifier	DUP Diff Limits mV
ORP	-41.5	-62.6	1	0.000		20

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

(LCS) R3840503-1 09/23/22 07:03 • (LCSD) R3840503-2 09/23/22 07:03

Analyte	Spike Amount mV	LCS Result mV	LCSD Result mV	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	Diff mV	Diff Limits mV
ORP	109	115	115	105	106	90.0-110			0.400	20

Released to Imaging: 10/2/2023 4:00:31 PM

Method Blank (MB)

(MB) R3835602-1 09/09/22 14:22

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

L1530546-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1530546-02 09/09/22 14:28 • (DUP) R3835602-3 09/09/22 14:29

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

L1530609-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1530609-02 09/09/22 14:35 • (DUP) R3835602-6 09/09/22 14:36

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

Laboratory Control Sample (LCS)

(LCS) R3835602-2 09/09/22 14:23

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Cyanide	0.100	0.0966	96.6	87.1-120	

L1530548-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1530548-02 09/09/22 14:30 • (MS) R3835602-4 09/09/22 14:31 • (MSD) R3835602-5 09/09/22 14:34

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	ND	0.0937	0.0967	93.7	96.7	1	90.0-110			3.15	20

L1530884-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1530884-01 09/09/22 14:41 • (MS) R3835602-7 09/09/22 14:43 • (MSD) R3835602-8 09/09/22 14:44

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	ND	0.0556	0.0565	55.6	56.5	1	90.0-110	J6	J6	1.61	20

Method Blank (MB)

(MB) R3839430-1 09/21/22 01:07

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

L1529254-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1529254-01 09/21/22 01:11 • (DUP) R3839430-3 09/21/22 01:12

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Reactive Sulfide	0.315	0.361	1	13.6		20

L1533643-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1533643-02 09/21/22 01:31 • (DUP) R3839430-6 09/21/22 01:32

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

Laboratory Control Sample (LCS)

(LCS) R3839430-2 09/21/22 01:07

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Sulfide	0.500	0.440	88.0	85.0-115	

L1531166-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1531166-01 09/21/22 01:26 • (MS) R3839430-4 09/21/22 01:26 • (MSD) R3839430-5 09/21/22 01:27

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Sulfide	0.500	0.240	0.455	0.429	43.0	37.8	1	80.0-120	J6	J6	5.88	20

Laboratory Control Sample (LCS)

(LCS) R3835704-1 09/09/22 20:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
Corrosivity by pH	10.0	9.90	99.0	99.0-101	

Sample Narrative:

LCS: 9.9 at 21.6C

L1531166-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1531166-01 09/01/22 01:35 • (DUP) R3832670-3 09/01/22 01:35

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

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

(LCS) R3832670-1 09/01/22 01:35 • (LCSD) R3832670-2 09/01/22 01:35

Analyte	Spike Amount deg F	LCS Result deg F	LCSD Result deg F	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Flashpoint	126	124	128	98.2	101	96.0-104			3.18	10

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
Q	Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values.
T8	Sample(s) received past/too close to holding time expiration.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

Received by OCD: 10/2/2023 3:49:18 PM

HALL ENVIRONMENTAL ANALYSIS LABORATORY

CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

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

SUB CONTRATOR: Pace TN	COMPANY: PACE TN	PHONE: (800) 767-5859	FAX: (615) 758-5859
ADDRESS: 12065 Lebanon Rd		ACCOUNT #:	EMAIL:
CITY, STATE, ZIP: Mt. Juliet, TN 37122			6/531166

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2208H52-001F	S-23 (08/29/22)	500HDPE	Aqueous	8/29/2022 12:00:00 PM	3	RCI, ORP

712

-01

300

G050

3.1+0=3.1

5755 8093 3486

Sample Receipt Checklist

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

SPECIAL INSTRUCTIONS / COMMENTS:

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

OK

Relinquished By: CMC	Date: 8/30/2022	Time: 8:16 AM	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date: 8/31/22	Time: 8:45

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

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

FOR LAB USE ONLY

Temp of samples _____ ℃ Attempt to Cool ? _____

Comments: _____

Released to Imaging: 10/2/2023 4:00:31 PM

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208H52**
11-Jan-23

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **MB** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW** Batch ID: **A90664** RunNo: **90664**
Prep Date: Analysis Date: **8/30/2022** SeqNo: **3241366** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	ND	0.10								
Sulfate	ND	0.50								

Sample ID: **LCS** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW** Batch ID: **A90664** RunNo: **90664**
Prep Date: Analysis Date: **8/30/2022** SeqNo: **3241367** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	2.4	0.10	2.500	0	95.3	90	110			
Sulfate	10	0.50	10.00	0	99.9	90	110			

Sample ID: **MB** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW** Batch ID: **R90955** RunNo: **90955**
Prep Date: Analysis Date: **9/9/2022** SeqNo: **3252362** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID: **LCS** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW** Batch ID: **R90955** RunNo: **90955**
Prep Date: Analysis Date: **9/9/2022** SeqNo: **3252363** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	92.5	90	110			
Nitrate+Nitrite as N	3.3	0.20	3.500	0	95.4	90	110			

Sample ID: **MB** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW** Batch ID: **R90973** RunNo: **90973**
Prep Date: Analysis Date: **9/12/2022** SeqNo: **3253666** Units: **mg/L**

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

Sample ID: **LCS** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW** Batch ID: **R90973** RunNo: **90973**
Prep Date: Analysis Date: **9/12/2022** SeqNo: **3253667** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phosphorus, Orthophosphate (As P	4.6	0.50	5.000	0	91.8	90	110			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208H52**
11-Jan-23

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R91014**	RunNo: **91014**							
Prep Date:	Analysis Date: **9/13/2022**	SeqNo: **3254768**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R91014**	RunNo: **91014**							
Prep Date:	Analysis Date: **9/13/2022**	SeqNo: **3254769**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.55	0.10	0.5000	0	109	90	110			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208H52**
11-Jan-23

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **MB-69868** SampType: **MBLK** TestCode: **EPA Method 8081: Pesticides TCLP**
Client ID: **PBW** Batch ID: **69868** RunNo: **90841**
Prep Date: **8/31/2022** Analysis Date: **9/6/2022** SeqNo: **3250217** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chlordane	ND	0.030								
Surr: Decachlorobiphenyl	0.0022		0.002500		86.5	40.9	111			
Surr: Tetrachloro-m-xylene	0.0018		0.002500		73.1	15	107			

Sample ID: **LCS-69868** SampType: **LCS** TestCode: **EPA Method 8081: Pesticides TCLP**
Client ID: **LCSW** Batch ID: **69868** RunNo: **90841**
Prep Date: **8/31/2022** Analysis Date: **9/6/2022** SeqNo: **3250218** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	0.0020		0.002500		79.5	40.9	111			
Surr: Tetrachloro-m-xylene	0.0014		0.002500		55.6	15	107			

Sample ID: **LCSD-69868** SampType: **LCSD** TestCode: **EPA Method 8081: Pesticides TCLP**
Client ID: **LCSS02** Batch ID: **69868** RunNo: **90841**
Prep Date: **8/31/2022** Analysis Date: **9/6/2022** SeqNo: **3250219** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	0.0022		0.002500		86.2	40.9	111	0	0	
Surr: Tetrachloro-m-xylene	0.0015		0.002500		60.8	15	107	0	0	

Sample ID: **MB-69868** SampType: **MBLK** TestCode: **EPA Method 8081: Pesticides TCLP**
Client ID: **PBW** Batch ID: **69868** RunNo: **90841**
Prep Date: **8/31/2022** Analysis Date: **9/6/2022** SeqNo: **3250220** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chlordane	ND	0.030								
Surr: Decachlorobiphenyl	0.0023		0.002500		90.8	40.9	111			
Surr: Tetrachloro-m-xylene	0.0018		0.002500		73.5	15	107			

Sample ID: **LCS-69868** SampType: **LCS** TestCode: **EPA Method 8081: Pesticides TCLP**
Client ID: **LCSW** Batch ID: **69868** RunNo: **90841**
Prep Date: **8/31/2022** Analysis Date: **9/6/2022** SeqNo: **3250221** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	0.0021		0.002500		83.7	40.9	111			
Surr: Tetrachloro-m-xylene	0.0014		0.002500		56.0	15	107			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208H52**
11-Jan-23

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **LCSD-69868** SampType: **LCSD** TestCode: **EPA Method 8081: Pesticides TCLP**
Client ID: **LCSS02** Batch ID: **69868** RunNo: **90841**
Prep Date: **8/31/2022** Analysis Date: **9/6/2022** SeqNo: **3250222** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	0.0022		0.002500		89.1	40.9	111	0	0	
Surr: Tetrachloro-m-xylene	0.0015		0.002500		60.8	15	107	0	0	

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208H52**
11-Jan-23

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **mb** SampType: **MBLK** TestCode: **TCLP Volatiles by 8260B**
Client ID: **PBW** Batch ID: **T90814** RunNo: **90814**
Prep Date: Analysis Date: **9/2/2022** SeqNo: **3246602** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.50								
1,2-Dichloroethane (EDC)	ND	0.50								
2-Butanone	ND	200								
Carbon Tetrachloride	ND	0.50								
Chloroform	ND	6.0								
1,4-Dichlorobenzene	ND	7.5								
1,1-Dichloroethene	ND	0.70								
Tetrachloroethene (PCE)	ND	0.70								
Trichloroethene (TCE)	ND	0.50								
Vinyl chloride	ND	0.20								
Chlorobenzene	ND	100								
Surr: 1,2-Dichloroethane-d4	0.011		0.01000		107	70	130			
Surr: 4-Bromofluorobenzene	0.0091		0.01000		91.3	70	130			
Surr: Dibromofluoromethane	0.010		0.01000		102	70	130			
Surr: Toluene-d8	0.0093		0.01000		92.6	70	130			

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **TCLP Volatiles by 8260B**
Client ID: **LCSW** Batch ID: **T90814** RunNo: **90814**
Prep Date: Analysis Date: **9/2/2022** SeqNo: **3246603** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.020	0.00023	0.02000	0	102	70	130			
1,1-Dichloroethene	0.017	0.00020	0.02000	0	87.4	70	130			
Trichloroethene (TCE)	0.019	0.00020	0.02000	0	96.4	70	130			
Chlorobenzene	0.021	0.00016	0.02000	0	104	70	130			
Surr: 1,2-Dichloroethane-d4	0.011		0.01000		107	70	130			
Surr: 4-Bromofluorobenzene	0.0094		0.01000		93.8	70	130			
Surr: Dibromofluoromethane	0.010		0.01000		101	70	130			
Surr: Toluene-d8	0.0093		0.01000		93.2	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208H52**
11-Jan-23

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **2208H52-001BMS** SampType: **MS** TestCode: **EPA Method 8270C TCLP**
Client ID: **S-23 (08/29/22)** Batch ID: **69905** RunNo: **90852**
Prep Date: **9/1/2022** Analysis Date: **9/7/2022** SeqNo: **3248317** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	0.058	0.00010	0.1000	0	57.7	15.8	101			
3+4-Methylphenol	0.10	0.00010	0.2000	0	50.2	16.9	97.9			
2,4-Dinitrotoluene	0.047	0.00010	0.1000	0	47.0	20.1	90.5			
Hexachlorobenzene	0.057	0.00010	0.1000	0	56.6	34	108			
Hexachlorobutadiene	0.040	0.00010	0.1000	0	39.7	15	99.7			
Hexachloroethane	0.046	0.00010	0.1000	0	46.4	15	86.4			
Nitrobenzene	0.046	0.00010	0.1000	0	46.2	15	109			
Pentachlorophenol	0.013	0.00010	0.1000	0	13.2	15	130			S
Pyridine	0.049	0.00010	0.1000	0	48.7	15	82			
2,4,5-Trichlorophenol	0.058	0.00010	0.1000	0	58.5	28.1	105			
2,4,6-Trichlorophenol	0.051	0.00010	0.1000	0	50.7	21.5	110			
Cresols, Total	0.16	0.00010	0.3000	0	52.7	15	127			
Surr: 2-Fluorophenol	0.074		0.2000		37.0	18.1	88.9			
Surr: Phenol-d5	0.059		0.2000		29.6	17	61.5			
Surr: 2,4,6-Tribromophenol	0.10		0.2000		52.1	29.8	104			
Surr: Nitrobenzene-d5	0.051		0.1000		50.9	22.2	111			
Surr: 2-Fluorobiphenyl	0.051		0.1000		51.4	24.6	96.3			
Surr: 4-Terphenyl-d14	0.067		0.1000		66.7	53.4	124			

Sample ID: **2208H52-001BMSD** SampType: **MSD** TestCode: **EPA Method 8270C TCLP**
Client ID: **S-23 (08/29/22)** Batch ID: **69905** RunNo: **90852**
Prep Date: **9/1/2022** Analysis Date: **9/7/2022** SeqNo: **3248318** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	0.054	0.00010	0.1000	0	54.4	15.8	101	5.78	20	
3+4-Methylphenol	0.091	0.00010	0.2000	0	45.3	16.9	97.9	10.2	20	
2,4-Dinitrotoluene	0.044	0.00010	0.1000	0	43.8	20.1	90.5	6.98	20	
Hexachlorobenzene	0.056	0.00010	0.1000	0	56.0	34	108	1.02	20	
Hexachlorobutadiene	0.039	0.00010	0.1000	0	39.2	15	99.7	1.40	20	
Hexachloroethane	0.042	0.00010	0.1000	0	41.7	15	86.4	10.7	20	
Nitrobenzene	0.044	0.00010	0.1000	0	44.1	15	109	4.60	20	
Pentachlorophenol	0.012	0.00010	0.1000	0	12.0	15	130	9.23	20	S
Pyridine	0.044	0.00010	0.1000	0	43.8	15	82	10.6	20	
2,4,5-Trichlorophenol	0.057	0.00010	0.1000	0	56.6	28.1	105	3.30	20	
2,4,6-Trichlorophenol	0.047	0.00010	0.1000	0	47.0	21.5	110	7.45	20	
Cresols, Total	0.15	0.00010	0.3000	0	48.4	15	127	8.55	20	
Surr: 2-Fluorophenol	0.070		0.2000		35.0	18.1	88.9	0	0	
Surr: Phenol-d5	0.057		0.2000		28.4	17	61.5	0	0	
Surr: 2,4,6-Tribromophenol	0.11		0.2000		55.2	29.8	104	0	0	

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208H52**
11-Jan-23

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **2208H52-001BMSD** SampType: **MSD** TestCode: **EPA Method 8270C TCLP**
Client ID: **S-23 (08/29/22)** Batch ID: **69905** RunNo: **90852**
Prep Date: **9/1/2022** Analysis Date: **9/7/2022** SeqNo: **3248318** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Nitrobenzene-d5	0.049		0.1000		48.5	22.2	111	0	0	
Surr: 2-Fluorobiphenyl	0.048		0.1000		47.8	24.6	96.3	0	0	
Surr: 4-Terphenyl-d14	0.069		0.1000		69.2	53.4	124	0	0	

Sample ID: **MB-69905** SampType: **MBLK** TestCode: **EPA Method 8270C TCLP**
Client ID: **PBW** Batch ID: **69905** RunNo: **90852**
Prep Date: **9/1/2022** Analysis Date: **9/7/2022** SeqNo: **3248327** 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	0.067		0.2000		33.3	18.1	88.9			
Surr: Phenol-d5	0.054		0.2000		27.0	17	61.5			
Surr: 2,4,6-Tribromophenol	0.080		0.2000		40.2	29.8	104			
Surr: Nitrobenzene-d5	0.043		0.1000		42.9	22.2	111			
Surr: 2-Fluorobiphenyl	0.043		0.1000		42.5	24.6	96.3			
Surr: 4-Terphenyl-d14	0.066		0.1000		66.4	53.4	124			

Sample ID: **LCS-69905** SampType: **LCS** TestCode: **EPA Method 8270C TCLP**
Client ID: **LCSW** Batch ID: **69905** RunNo: **90852**
Prep Date: **9/1/2022** Analysis Date: **9/7/2022** SeqNo: **3248328** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	0.052	0.00010	0.1000	0	52.5	19	106			
3+4-Methylphenol	0.11	0.00010	0.2000	0	52.6	16.3	112			
2,4-Dinitrotoluene	0.043	0.00010	0.1000	0	42.7	15	99.6			
Hexachlorobenzene	0.054	0.00010	0.1000	0	53.9	41.8	111			
Hexachlorobutadiene	0.040	0.00010	0.1000	0	39.5	15	91.5			
Hexachloroethane	0.043	0.00010	0.1000	0	43.3	15	87.5			
Nitrobenzene	0.048	0.00010	0.1000	0	47.6	19.3	114			

Qualifiers:

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PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208H52**
11-Jan-23

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **LCS-69905** SampType: **LCS** TestCode: **EPA Method 8270C TCLP**
Client ID: **LCSW** Batch ID: **69905** RunNo: **90852**
Prep Date: **9/1/2022** Analysis Date: **9/7/2022** SeqNo: **3248328** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Pentachlorophenol	0.049	0.00010	0.1000	0	48.7	29	103			
Pyridine	0.049	0.00010	0.1000	0	48.6	15	92.6			
2,4,5-Trichlorophenol	0.054	0.00010	0.1000	0	54.1	25.2	114			
2,4,6-Trichlorophenol	0.054	0.00010	0.1000	0	54.3	25.7	112			
Cresols, Total	0.16	0.00010	0.3000	0	52.6	15	145			
Surr: 2-Fluorophenol	0.074		0.2000		37.2	18.1	88.9			
Surr: Phenol-d5	0.060		0.2000		30.1	17	61.5			
Surr: 2,4,6-Tribromophenol	0.098		0.2000		49.1	29.8	104			
Surr: Nitrobenzene-d5	0.051		0.1000		51.2	22.2	111			
Surr: 2-Fluorobiphenyl	0.049		0.1000		49.0	24.6	96.3			
Surr: 4-Terphenyl-d14	0.071		0.1000		70.9	53.4	124			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208H52**
11-Jan-23

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **lcs-1 98.9uS eC**	SampType: **LCS**		TestCode: **SM2510B: Specific Conductance**		
Client ID: **LCSW**	Batch ID: **R90925**		RunNo: **90925**		
Prep Date:	Analysis Date: **9/8/2022**		SeqNo: **3250984**	Units: **µmhos/cm**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	98	10	98.90	0	99.3	85	115			

Qualifiers:

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J	Analyte detected below quantitation limits
P	Sample pH Not In Range
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QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208H52**
11-Jan-23

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **MB-70001**	SampType: **MBLK**	TestCode: **EPA Method 7470A: Mercury**							
Client ID: **PBW**	Batch ID: **70001**	RunNo: **90872**							
Prep Date: **9/7/2022**	Analysis Date: **9/7/2022**	SeqNo: **3248460**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID: **LCSLL-70001**	SampType: **LCSLL**	TestCode: **EPA Method 7470A: Mercury**							
Client ID: **BatchQC**	Batch ID: **70001**	RunNo: **90872**							
Prep Date: **9/7/2022**	Analysis Date: **9/7/2022**	SeqNo: **3248461**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020	0.0001500	0	52.1	50	150			

Sample ID: **LCS-70001**	SampType: **LCS**	TestCode: **EPA Method 7470A: Mercury**							
Client ID: **LCSW**	Batch ID: **70001**	RunNo: **90872**							
Prep Date: **9/7/2022**	Analysis Date: **9/7/2022**	SeqNo: **3248462**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0053	0.00020	0.005000	0	105	85	115			

Qualifiers:

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ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208H52**
11-Jan-23

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **MB-A**	SampType: **MBLK**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **PBW**	Batch ID: **A90876**	RunNo: **90876**
Prep Date:	Analysis Date: **9/7/2022**	SeqNo: **3248983** Units: **mg/L**

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

Sample ID: **LCS-A**	SampType: **LCS**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **A90876**	RunNo: **90876**
Prep Date:	Analysis Date: **9/7/2022**	SeqNo: **3248985** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	54	1.0	50.00	0	108	80	120			
Magnesium	54	1.0	50.00	0	109	80	120			
Potassium	54	1.0	50.00	0	107	80	120			

Sample ID: **MB-A**	SampType: **MBLK**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **PBW**	Batch ID: **A90989**	RunNo: **90989**
Prep Date:	Analysis Date: **9/12/2022**	SeqNo: **3253964** Units: **mg/L**

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

Sample ID: **LCS-A**	SampType: **LCS**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **A90989**	RunNo: **90989**
Prep Date:	Analysis Date: **9/12/2022**	SeqNo: **3253966** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	53	1.0	50.00	0	106	80	120			

Sample ID: **LCSD-A**	SampType: **LCSD**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **LCSS02**	Batch ID: **A90989**	RunNo: **90989**
Prep Date:	Analysis Date: **9/12/2022**	SeqNo: **3253977** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	56	1.0	50.00	0	111	80	120	4.76	20	

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208H52**
11-Jan-23

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **MB-69883**	SampType: **MBLK**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW**	Batch ID: **69883**	RunNo: **90913**
Prep Date: **8/31/2022**	Analysis Date: **9/8/2022**	SeqNo: **3250351** Units: **mg/L**

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

Sample ID: **LCS-69883**	SampType: **LCS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW**	Batch ID: **69883**	RunNo: **90913**
Prep Date: **8/31/2022**	Analysis Date: **9/8/2022**	SeqNo: **3250353** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.47	0.0020	0.5000	0	94.0	80	120			
Cadmium	0.47	0.0020	0.5000	0	95.0	80	120			
Chromium	0.48	0.0060	0.5000	0	95.8	80	120			
Lead	0.47	0.020	0.5000	0	94.3	80	120			
Selenium	0.47	0.050	0.5000	0	93.3	80	120			
Silver	0.095	0.0050	0.1000	0	95.1	80	120			

Sample ID: **2208H52-001EMS**	SampType: **MS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **S-23 (08/29/22)**	Batch ID: **69883**	RunNo: **90913**
Prep Date: **8/31/2022**	Analysis Date: **9/8/2022**	SeqNo: **3250386** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	0.60	0.0020	0.5000	0	119	75	125			
Chromium	0.51	0.0060	0.5000	0.005526	101	75	125			
Lead	0.47	0.020	0.5000	0	94.0	75	125			
Selenium	0.54	0.050	0.5000	0	108	75	125			

Sample ID: **MB-69883**	SampType: **MBLK**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW**	Batch ID: **69883**	RunNo: **90989**
Prep Date: **8/31/2022**	Analysis Date: **9/12/2022**	SeqNo: **3253970** Units: **mg/L**

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208H52**
11-Jan-23

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **LCS-69883**	SampType: **LCS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW**	Batch ID: **69883**	RunNo: **90989**
Prep Date: **8/31/2022**	Analysis Date: **9/12/2022**	SeqNo: **3253975** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.47	0.030	0.5000	0	93.6	80	120			
Barium	0.48	0.0020	0.5000	0	95.1	80	120			
Cadmium	0.48	0.0020	0.5000	0	97.0	80	120			
Chromium	0.49	0.0060	0.5000	0	97.3	80	120			
Lead	0.48	0.020	0.5000	0	96.5	80	120			
Silver	0.095	0.0050	0.1000	0	95.0	80	120			

Sample ID: **2208H52-001EMS**	SampType: **MS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **S-23 (08/29/22)**	Batch ID: **69883**	RunNo: **91018**
Prep Date: **8/31/2022**	Analysis Date: **9/14/2022**	SeqNo: **3255129** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.39	0.030	0.5000	0	77.5	75	125			
Cadmium	0.38	0.0020	0.5000	0	76.4	75	125			
Chromium	0.32	0.0060	0.5000	0.004935	63.7	75	125			S
Lead	0.30	0.020	0.5000	0	59.3	75	125			S
Selenium	0.33	0.050	0.5000	0	66.7	75	125			S
Silver	0.088	0.0050	0.1000	0.005392	82.7	75	125			

Sample ID: **2208H52-001EMSD**	SampType: **MSD**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **S-23 (08/29/22)**	Batch ID: **69883**	RunNo: **91018**
Prep Date: **8/31/2022**	Analysis Date: **9/14/2022**	SeqNo: **3255130** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.35	0.030	0.5000	0	69.5	75	125	11.0	20	S
Cadmium	0.34	0.0020	0.5000	0	68.1	75	125	11.4	20	S
Chromium	0.29	0.0060	0.5000	0.004935	57.1	75	125	10.7	20	S
Lead	0.28	0.020	0.5000	0	56.8	75	125	4.23	20	S
Selenium	0.32	0.050	0.5000	0	64.4	75	125	3.58	20	S
Silver	0.078	0.0050	0.1000	0.005392	73.0	75	125	11.7	20	S

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208H52**
11-Jan-23

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **mb-1 alk**	SampType: **mblk**	TestCode: **SM2320B: Alkalinity**							
Client ID: **PBW**	Batch ID: **R90758**	RunNo: **90758**							
Prep Date:	Analysis Date: **8/31/2022**	SeqNo: **3244296**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: **lcs-1 alk**	SampType: **lcs**	TestCode: **SM2320B: Alkalinity**							
Client ID: **LCSW**	Batch ID: **R90758**	RunNo: **90758**							
Prep Date:	Analysis Date: **8/31/2022**	SeqNo: **3244297**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	75.96	20.00	80.00	0	95.0	90	110			

Sample ID: **mb-2 alk**	SampType: **mblk**	TestCode: **SM2320B: Alkalinity**							
Client ID: **PBW**	Batch ID: **R90758**	RunNo: **90758**							
Prep Date:	Analysis Date: **8/31/2022**	SeqNo: **3244319**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: **lcs-2 alk**	SampType: **lcs**	TestCode: **SM2320B: Alkalinity**							
Client ID: **LCSW**	Batch ID: **R90758**	RunNo: **90758**							
Prep Date:	Analysis Date: **8/31/2022**	SeqNo: **3244320**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	77.44	20.00	80.00	0	96.8	90	110			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208H52**
11-Jan-23

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **2208H52-001CDUP**	SampType: **DUP**		TestCode: **Specific Gravity**		
Client ID: **S-23 (08/29/22)**	Batch ID: **R90739**		RunNo: **90739**		
Prep Date:	Analysis Date: **9/1/2022**		SeqNo: **3243647**	Units:	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Specific Gravity	1.019	0						0.548	20	

Qualifiers:

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ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208H52**
11-Jan-23

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **MB-69880**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**							
Client ID: **PBW**	Batch ID: **69880**	RunNo: **90745**							
Prep Date: **8/31/2022**	Analysis Date: **9/1/2022**	SeqNo: **3243746**	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-69880**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**							
Client ID: **LCSW**	Batch ID: **69880**	RunNo: **90745**							
Prep Date: **8/31/2022**	Analysis Date: **9/1/2022**	SeqNo: **3243747**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1010	20.0	1000	0	101	80	120			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **Souder, Miller and Associates** Work Order Number: **2208H52** RcptNo: 1

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

Completed By: **Cheyenne Cason** **8/30/2022 8:10:09 AM**

Reviewed By: JR 8/30/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

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

# of preserved bottles checked for pH: 3 2 (<2 or >12 unless noted)

Adjusted? yes

Checked by: KPA 8·30·22

Special Handling (if applicable)

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

Person Notified: Date:

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

Regarding:

Client Instructions:

16. Additional remarks: Added 0.5ml of HNO_3 to sample 001E for pH <2 - KPA 8·30·22

17. **Cooler Information**

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

Released to Imaging: 10/2/2023 4:00:31 PM
Received by OCD: 10/2/2023 3:49:18 PM

Chain-of-Custody Record

Client: Souder, Miller & Associates

Mailing Address: 201 West Broadway
Farmington, NM 87401

Phone #: (505) 716-2787

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

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: Agua Moss Sunco #1

Project #:

Project Manager: Heather Woods

Sampler: Heather Woods

On Ice: ☑ Yes ☐ No

# of Coolers:

Cooler Temp(including CF): 3.1-0=3.1 (°C)

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2208858452
8/29/22	1200	Aq	S-23 (8/29/22)	(5) 1L Amber	NoN	001
				(2) 500mL Plastic	NoN	
				(1) 500mL Plastic	zinc acetate NaOH	
				(1) 125mL Plastic	Filtered HNO_3	
				(1) 125mL Plastic	H_2SO_4	
				(1) ~~250~~ 500mL Plastic	NaOH	
				(3) 40mL VOA	HCl	
				(1) 250mL Plastic	HNO_3	

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	See Attached Pages (2)						
										X						

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/29/22	1741	Heather M. Woods	Chris Ward		8/29/22	1741
8/29/22	1820	Chris Ward		Courier	8/30/22	7:30

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

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

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

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

Received by OCD: 10/2/2023 3:49:18 PM

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

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

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

ADDTIONALLY:

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

Released to Imaging: 10/2/2023 4:00:31 PM

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

January 10, 2022 SMA Project No. 5129666

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

RE: Sunco Disposal #1 Injection Water Monitoring – 4th Quarter 2022

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 4th Quarter 2022. 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-24, from the process line inside the pump building on November 17, 2022. 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-24) 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 oxidation reduction potential.

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

Data Evaluation

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

Closure and Limitations

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

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

Sincerely,

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

Heather M. Woods

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

Attachments:
Table 1. Summary of Field Screening and Laboratory Analytical Results
Laboratory Analytical Reports (Hall 2211B11)

Table 1:
Summary of Field Screening and Laboratory Analytical Results

AGUA MOSS LLC
SUNCO DISPOSAL #1
4TH QUARTER 2022 MONITORING

Sample ID	S-24			
Collection Date	11/17/2022			
Analyte	Field Results	Laboratory Results	Units	Toxicity Characteristic Concentrations
Arsenic	--	<5.0	mg/L	5.0 mg/L
Barium	--	<100	mg/L	100.0 mg/L
Benzene	--	**0.94**	mg/L	0.5 mg/L
Cadmium	--	<1.0	mg/L	1 mg/L
Carbon tertachloride	--	<0.50	mg/L	0.5 mg/L
Chlordane	--	<0.30	mg/L	0.03 mg/L
Chlorobenzene	--	<100	mg/L	100.0 mg/L
Chloroform	--	<6.0	mg/L	6.0 mg/L
Chromium	--	<5.0	mg/L	5.0 mg/L
o-Cresol	--	--	mg/L	200.0 mg/L
m+p-Cresol	--	--	mg/L	200.0 mg/L
Cresol	--	<200	mg/L	200.0 mg/L
1,4-Dichlorobenzene	--	<7.5	mg/L	7.5 mg/L
1,2-Dichloroethane	--	<0.50	mg/L	0.5 mg/L
1,1-Dichloroethylene	--	<0.70	mg/L	0.7 mg/L
2,4-Dinitrotoluene	--	<0.13	mg/L	0.13 mg/L
Hexachlorobenzene	--	<0.13	mg/L	0.13 mg/L
Hexachlorobutadiene	--	<0.50	mg/L	0.5 mg/L
Hexachloroethane	--	<3.0	mg/L	3.0 mg/L
Lead	--	<5.0	mg/L	5.0 mg/L
Mercury	--	<0.020	mg/L	0.2 mg/L
Methyl ethyl ketone	--	<200	mg/L	200.0 mg/L
Nitrobenzene	--	<2.0	mg/L	2.0 mg/L
Pentachlorophenol	--	<100	mg/L	100.0 mg/L
Pyridine	--	<5.0	mg/L	5.0 mg/L
Selenium	--	<1.0	mg/L	1.0 mg/L
Silver	--	<5.0	mg/L	5.0 mg/L
Tetrachloroethylene	--	<0.70	mg/L	0.7 mg/L
Trichloroethylene	--	<0.50	mg/L	0.5 mg/L
2,4,5-Trichlorophenol	--	<400	mg/L	400.0 mg/L
2,4,6-Trichlorophenol	--	<2.0	mg/L	2.0 mg/L
Vinyl chloride	--	<0.20	mg/L	0.2 mg/L
Reactive sulfide	--	<0.0500 D	mg/L	
Reactive cyanide	--	<0.00500	mg/L	
Corrosivity by pH	--	7.37 H	s.u.	
Ignitability	--	DNF at 170	deg F	
Specific conductance	74,310	76,000	µmhos/cm	
Specific gravity	--	1.026		
ORP	-26.3	16.8 H	mV	
Fluoride	--	<2.0	mg/L	
Calcium	--	270	mg/L	
Potassium	--	78	mg/L	
Magnesium	--	86	mg/L	
Bicarbonate (as CaCO3)	--	1,020	mg/L Ca	
Carbonate (as CaCO3)	--	<2.000	mg/L Ca	
Chloride	--	17,000	mg/L	
Sulfate	--	100.0	mg/L	
Total dissolved solids	37,200	35,400 D	mg/L	
pH	7.45	7.61 H		
Bromide	--	76	mg/L	
Temperature	1.2	--	deg C	

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

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

December 13, 2022

Heather Woods

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

RE: Agua Moss Sunco 1 OrderNo.: 2211B11

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/18/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2211B11**
Date Reported: **12/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: S-24 (11/17/22)
Project: Agua Moss Sunco 1
Collection Date: 11/17/2022 12:00:00 PM
Lab ID: 2211B11-001 **Matrix:** AQUEOUS **Received Date:** 11/18/2022 6:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8081: PESTICIDES TCLP						Analyst: **mb**	
Chlordane	ND	0.30		mg/L	1	11/30/2022 10:38:39 AM	71677
Surr: Decachlorobiphenyl	65.7	40.9-111		%Rec	1	11/30/2022 10:38:39 AM	71677
Surr: Tetrachloro-m-xylene	85.3	15-107		%Rec	1	11/30/2022 10:38:39 AM	71677
EPA METHOD 8270C TCLP						Analyst: **JME**	
2-Methylphenol	ND	200		mg/L	1	12/1/2022 3:33:15 PM	71653
3+4-Methylphenol	ND	200		mg/L	1	12/1/2022 3:33:15 PM	71653
2,4-Dinitrotoluene	ND	0.13		mg/L	1	12/1/2022 3:33:15 PM	71653
Hexachlorobenzene	ND	0.13		mg/L	1	12/1/2022 3:33:15 PM	71653
Hexachlorobutadiene	ND	0.50		mg/L	1	12/1/2022 3:33:15 PM	71653
Hexachloroethane	ND	3.0		mg/L	1	12/1/2022 3:33:15 PM	71653
Nitrobenzene	ND	2.0		mg/L	1	12/1/2022 3:33:15 PM	71653
Pentachlorophenol	ND	100		mg/L	1	12/1/2022 3:33:15 PM	71653
Pyridine	ND	5.0		mg/L	1	12/1/2022 3:33:15 PM	71653
2,4,5-Trichlorophenol	ND	400		mg/L	1	12/1/2022 3:33:15 PM	71653
2,4,6-Trichlorophenol	ND	2.0		mg/L	1	12/1/2022 3:33:15 PM	71653
Cresols, Total	ND	200		mg/L	1	12/1/2022 3:33:15 PM	71653
Surr: 2-Fluorophenol	55.7	18.1-88.9		%Rec	1	12/1/2022 3:33:15 PM	71653
Surr: Phenol-d5	43.5	17-61.5		%Rec	1	12/1/2022 3:33:15 PM	71653
Surr: 2,4,6-Tribromophenol	89.1	29.8-104		%Rec	1	12/1/2022 3:33:15 PM	71653
Surr: Nitrobenzene-d5	70.7	22.2-111		%Rec	1	12/1/2022 3:33:15 PM	71653
Surr: 2-Fluorobiphenyl	71.2	24.6-96.3		%Rec	1	12/1/2022 3:33:15 PM	71653
Surr: 4-Terphenyl-d14	87.8	53.4-124		%Rec	1	12/1/2022 3:33:15 PM	71653
SPECIFIC GRAVITY						Analyst: **CAS**	
Specific Gravity	1.026	0			1	11/30/2022 12:38:00 PM	R92908
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Fluoride	ND	2.0		mg/L	20	11/18/2022 5:39:24 PM	A92719
Chloride	17000	1000	*	mg/L	2E+	12/2/2022 11:07:28 AM	R93009
Bromide	76	2.0		mg/L	20	11/18/2022 5:39:24 PM	A92719
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	11/18/2022 5:27:03 PM	A92719
Sulfate	100	2.5		mg/L	5	11/18/2022 5:27:03 PM	A92719
Nitrate+Nitrite as N	ND	20		mg/L	100	12/6/2022 6:42:36 PM	R93069
SM2510B: SPECIFIC CONDUCTANCE						Analyst: **CAS**	
Conductivity	76000	100		µmhos/c	10	11/23/2022 1:17:10 PM	R92813
SM2320B: ALKALINITY						Analyst: **SNS**	
Bicarbonate (As CaCO3)	1020	20.00		mg/L Ca	1	11/21/2022 3:58:17 PM	R92750
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	11/21/2022 3:58:17 PM	R92750
Total Alkalinity (as CaCO3)	1020	20.00		mg/L Ca	1	11/21/2022 3:58:17 PM	R92750

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

Qualifiers:

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

Analytical Report
Lab Order **2211B11**
Date Reported: **12/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: S-24 (11/17/22)
Project: Agua Moss Sunco 1
Collection Date: 11/17/2022 12:00:00 PM
Lab ID: 2211B11-001 **Matrix:** AQUEOUS **Received Date:** 11/18/2022 6:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	35400	200	*D	mg/L	1	11/23/2022 12:27:00 PM	71648
SM4500-H+B / 9040C: PH						Analyst:	**SNS**
pH	7.61		H	pH units	1	11/21/2022 3:58:17 PM	R92750
EPA METHOD 7470A: MERCURY						Analyst:	**VP**
Mercury	ND	0.020		mg/L	1	12/9/2022 5:26:25 PM	71977
EPA METHOD 6010B: DISSOLVED METALS						Analyst:	**JRR**
Calcium	270	5.0		mg/L	5	12/6/2022 4:42:05 PM	A93075
Magnesium	86	5.0		mg/L	5	12/6/2022 4:42:05 PM	A93075
Potassium	78	5.0		mg/L	5	12/6/2022 4:42:05 PM	A93075
Sodium	13000	200		mg/L	200	12/7/2022 5:31:35 PM	A93168
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst:	**JRR**
Arsenic	ND	5.0		mg/L	1	12/8/2022 11:30:30 AM	71619
Barium	ND	100		mg/L	10	12/8/2022 11:33:26 AM	71619
Cadmium	ND	1.0		mg/L	1	12/6/2022 4:34:38 PM	71619
Chromium	ND	5.0		mg/L	1	12/8/2022 11:30:30 AM	71619
Lead	ND	5.0		mg/L	1	12/8/2022 11:30:30 AM	71619
Selenium	ND	1.0		mg/L	1	12/8/2022 11:30:30 AM	71619
Silver	ND	5.0		mg/L	1	12/6/2022 4:34:38 PM	71619
TCLP VOLATILES BY 8260B						Analyst:	**CCM**
Benzene	0.94	0.50		mg/L	200	11/28/2022 6:24:00 PM	T92875
1,2-Dichloroethane (EDC)	ND	0.50		mg/L	200	11/28/2022 6:24:00 PM	T92875
2-Butanone	ND	200		mg/L	200	11/28/2022 6:24:00 PM	T92875
Carbon Tetrachloride	ND	0.50		mg/L	200	11/28/2022 6:24:00 PM	T92875
Chloroform	ND	6.0		mg/L	200	11/28/2022 6:24:00 PM	T92875
1,4-Dichlorobenzene	ND	7.5		mg/L	200	11/28/2022 6:24:00 PM	T92875
1,1-Dichloroethene	ND	0.70		mg/L	200	11/28/2022 6:24:00 PM	T92875
Tetrachloroethene (PCE)	ND	0.70		mg/L	200	11/28/2022 6:24:00 PM	T92875
Trichloroethene (TCE)	ND	0.50		mg/L	200	11/28/2022 6:24:00 PM	T92875
Vinyl chloride	ND	0.20		mg/L	200	11/28/2022 6:24:00 PM	T92875
Chlorobenzene	ND	100		mg/L	200	11/28/2022 6:24:00 PM	T92875
Surr: 1,2-Dichloroethane-d4	91.9	70-130		%Rec	200	11/28/2022 6:24:00 PM	T92875
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	200	11/28/2022 6:24:00 PM	T92875
Surr: Dibromofluoromethane	95.1	70-130		%Rec	200	11/28/2022 6:24:00 PM	T92875
Surr: Toluene-d8	99.4	70-130		%Rec	200	11/28/2022 6:24:00 PM	T92875

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

Qualifiers:

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

Pace Analytical®

ANALYTICAL REPORT

November 29, 2022

Hall Environmental Analysis Laboratory

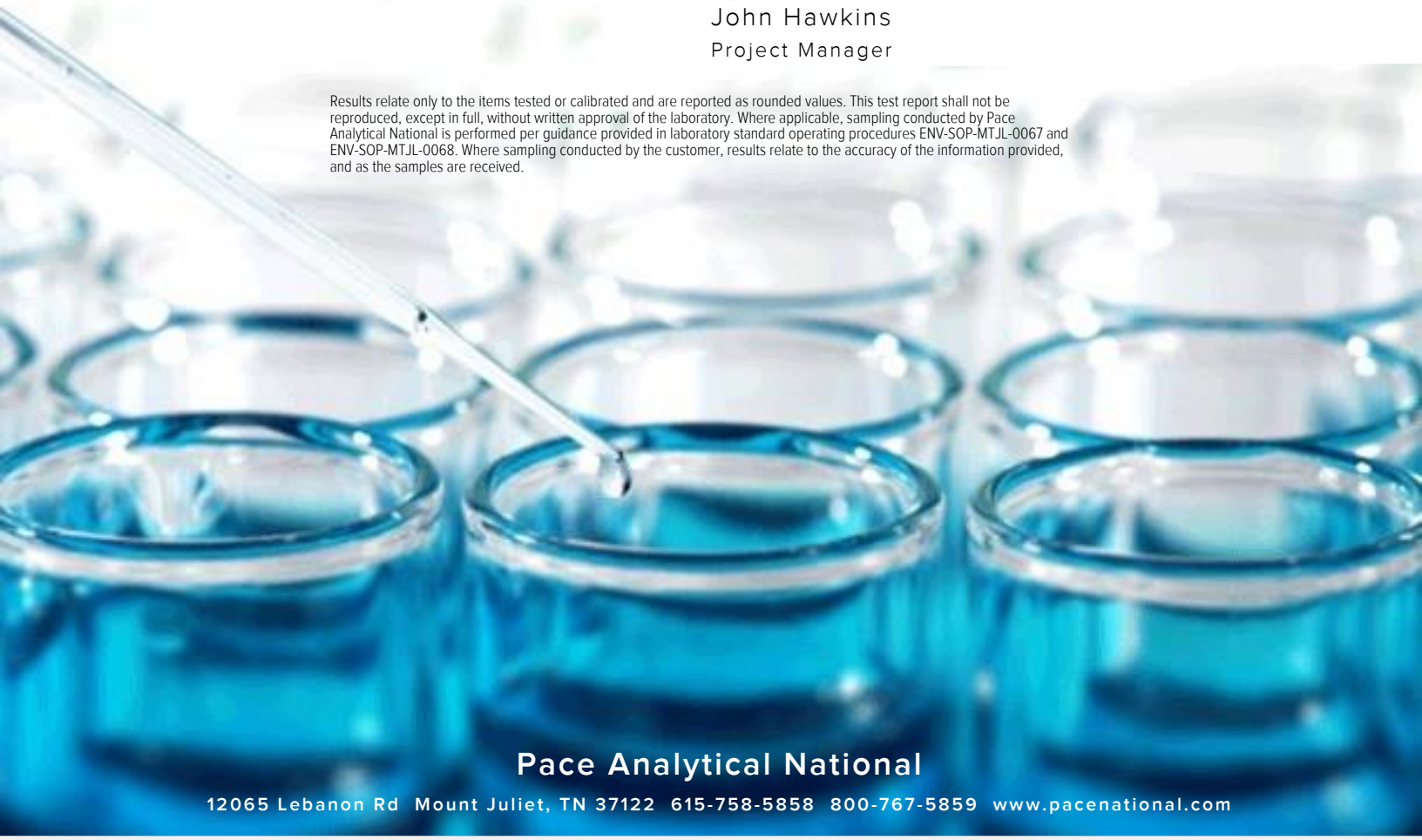
Sample Delivery Group:	L1560057
Samples Received:	11/19/2022
Project Number:	
Description:	

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

Entire Report Reviewed By:

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

TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

2211B11-001 S-24 (11/17/22) L1560057-01 5

Qc: Quality Control Summary 6

Wet Chemistry by Method 2580 6

Wet Chemistry by Method 4500 CN E-2016 8

Wet Chemistry by Method 4500 S2 D-2011 9

Wet Chemistry by Method 9040C 10

Wet Chemistry by Method D93/1010A 11

Gl: Glossary of Terms 12

Al: Accreditations & Locations 13

Sc: Sample Chain of Custody 14

SAMPLE SUMMARY

2211B11-001 S-24 (11/17/22) L1560057-01 GW

			Collected by	Collected date/time	Received date/time
				11/17/22 12:00	11/19/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2580	WG1964325	1	11/23/22 13:21	11/23/22 13:21	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500 CN E-2016	WG1964777	1	11/28/22 11:19	11/29/22 19:00	LDT	Mt. Juliet, TN
Wet Chemistry by Method 4500 S2 D-2011	WG1962752	1	11/20/22 16:01	11/20/22 16:01	JAR	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG1965240	1	11/26/22 16:00	11/26/22 16:00	KAD	Mt. Juliet, TN
Wet Chemistry by Method D93/1010A	WG1965585	1	11/28/22 02:00	11/28/22 02:00	WOS	Mt. Juliet, TN

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

John Hawkins
Project Manager

Project Narrative

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

Wet Chemistry by Method 2580

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	mV			date / time	
ORP	16.8	T8	1	11/23/2022 13:21	WG1964325

Wet Chemistry by Method 4500 CN E-2016

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Cyanide	0.00852		0.00500	1	11/29/2022 19:00	WG1964777

Wet Chemistry by Method 4500 S2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Sulfide	ND	J6	0.0500	1	11/20/2022 16:01	WG1962752

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	7.37	T8	1	11/26/2022 16:00	WG1965240

Sample Narrative:

L1560057-01 WG1965240: 7.37 at 20.3C

Wet Chemistry by Method D93/1010A

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	deg F			date / time	
Flashpoint	DNF at 170		1	11/28/2022 02:00	WG1965585

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

L1557595-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1557595-01 11/23/22 13:21 • (DUP) R3864547-3 11/23/22 13:21

Analyte	Original Result mV	DUP Result mV	Dilution	DUP Diff mV	DUP Qualifier	DUP Diff Limits mV
ORP	171	178	1	6.60		20

L1558284-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1558284-01 11/23/22 13:21 • (DUP) R3864547-4 11/23/22 13:21

Analyte	Original Result mV	DUP Result mV	Dilution	DUP Diff mV	DUP Qualifier	DUP Diff Limits mV
ORP	204	209	1	5.00		20

L1558284-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1558284-02 11/23/22 13:21 • (DUP) R3864547-5 11/23/22 13:21

Analyte	Original Result mV	DUP Result mV	Dilution	DUP Diff mV	DUP Qualifier	DUP Diff Limits mV
ORP	205	202	1	3.50		20

L1559494-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1559494-01 11/23/22 13:21 • (DUP) R3864547-6 11/23/22 13:21

Analyte	Original Result mV	DUP Result mV	Dilution	DUP Diff mV	DUP Qualifier	DUP Diff Limits mV
ORP	178	177	1	1.50		20

L1559494-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1559494-02 11/23/22 13:21 • (DUP) R3864547-7 11/23/22 13:21

Analyte	Original Result mV	DUP Result mV	Dilution	DUP Diff mV	DUP Qualifier	DUP Diff Limits mV
ORP	208	209	1	0.800		20

L1560057-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1560057-01 11/23/22 13:21 • (DUP) R3864547-8 11/23/22 13:21

Analyte	Original Result mV	DUP Result mV	Dilution	DUP Diff mV	DUP Qualifier	DUP Diff Limits mV
ORP	16.8	22.4	1	5.60		20

Received by OCD: 10/2/2023 3:49:18 PM

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

(LCS) R3864547-1 11/23/22 13:21 • (LCSD) R3864547-2 11/23/22 13:21

Analyte	Spike Amount mV	LCS Result mV	LCSD Result mV	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	Diff mV	Diff Limits mV
ORP	98.0	104	101	106	103	90.0-110			2.60	20

Released to Imaging: 10/2/2023 4:00:31 PM

Method Blank (MB)

(MB) R3866294-1 11/29/22 18:52

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

L1561285-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1561285-01 11/29/22 19:18 • (DUP) R3866294-3 11/29/22 19:19

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

L1561285-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1561285-03 11/29/22 19:23 • (DUP) R3866294-6 11/29/22 19:24

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

Laboratory Control Sample (LCS)

(LCS) R3866294-2 11/29/22 18:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Cyanide	0.100	0.0939	93.9	87.1-120	

L1561285-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1561285-02 11/29/22 19:20 • (MS) R3866294-4 11/29/22 19:21 • (MSD) R3866294-5 11/29/22 19:22

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	ND	0.0938	0.0894	93.8	89.4	1	90.0-110		J6	4.80	20

Method Blank (MB)

(MB) R3863206-1 11/20/22 15:55

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

L1559670-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1559670-05 11/20/22 15:57 • (DUP) R3863206-3 11/20/22 15:58

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

L1559820-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1559820-09 11/20/22 15:59 • (DUP) R3863206-4 11/20/22 15:59

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

Laboratory Control Sample (LCS)

(LCS) R3863206-2 11/20/22 15:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Sulfide	0.500	0.525	105	85.0-115	

L1560057-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1560057-01 11/20/22 16:01 • (MS) R3863206-5 11/20/22 16:01 • (MSD) R3863206-6 11/20/22 16:01

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Sulfide	0.500	ND	ND	ND	7.80	7.60	1	80.0-120	J6	J6	2.60	20

L1560057-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1560057-01 11/26/22 16:00 • (DUP) R3865226-2 11/26/22 16:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.37	7.38	1	0.136		1

Sample Narrative:

OS: 7.37 at 20.3C

DUP: 7.38 at 20C

L1560855-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1560855-02 11/26/22 16:00 • (DUP) R3865226-3 11/26/22 16:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.39	7.34	1	0.679		1

Sample Narrative:

OS: 7.39 at 19.5C

DUP: 7.34 at 19.5C

Laboratory Control Sample (LCS)

(LCS) R3865226-1 11/26/22 16:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	9.90	99.0	99.0-101	

Sample Narrative:

LCS: 9.9 at 20.2C

L1560081-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1560081-01 11/28/22 02:00 • (DUP) R3865751-3 11/28/22 02:00

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

L1560081-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1560081-08 11/28/22 02:00 • (DUP) R3865751-4 11/28/22 02:00

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

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

(LCS) R3865751-1 11/28/22 02:00 • (LCSD) R3865751-2 11/28/22 02:00

Analyte	Spike Amount deg F	LCS Result deg F	LCSD Result deg F	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Flashpoint	126	130	126	103	99.9	96.0-104			3.13	10

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

Received by OCD: 10/2/2023 3:49:18 PM

HALL ENVIRONMENTAL ANALYSIS LABORATORY

CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

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

L1560057

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

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2211B11-001F	S-24 (11/17/22)	500HDPE	Aqueous	11/17/2022 12:00:00 PM	3	RCI, ORP

D164

Sample Receipt Checklist

COC Seal Present/Intact:	Y X N	If Applicable	
COC Signed/Accurate:	X Y N	VOA Zero Headspace:	Y N
Bottles arrive intact:	X Y N	Pres.Correct/Check:	X Y N
Correct bottles used:	X Y N	NO TB	NSHG
Sufficient volume sent:	X Y N		
RAD Screen <0.5 mR/hr:	X Y N	3 received	1.3 to 2.1.3

Fedex
6040 5827 5149

SPECIAL INSTRUCTIONS / COMMENTS:

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

Relinquished By:	Date: 11/18/2022	Time: 7:25 AM	Received By:	Date: 11/19	Time: 0920
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

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

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

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

Released to Imaging: 10/2/2023 4:00:31 PM

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2211B11**
13-Dec-22

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **A92719**	RunNo: **92719**							
Prep Date:	Analysis Date: **11/18/2022**	SeqNo: **3336642**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Bromide	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								
Sulfate	ND	0.50								

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **A92719**	RunNo: **92719**							
Prep Date:	Analysis Date: **11/18/2022**	SeqNo: **3336643**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.49	0.10	0.5000	0	98.3	90	110			
Bromide	2.4	0.10	2.500	0	98.0	90	110			
Phosphorus, Orthophosphate (As P	4.6	0.50	5.000	0	91.2	90	110			
Sulfate	9.6	0.50	10.00	0	96.1	90	110			

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R93009**	RunNo: **93009**							
Prep Date:	Analysis Date: **12/2/2022**	SeqNo: **3349557**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R93009**	RunNo: **93009**							
Prep Date:	Analysis Date: **12/2/2022**	SeqNo: **3349558**	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	93.4	90	110			

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R93069**	RunNo: **93069**							
Prep Date:	Analysis Date: **12/6/2022**	SeqNo: **3351767**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	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 standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2211B11**
13-Dec-22

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R93069**	RunNo: **93069**							
Prep Date:	Analysis Date: **12/6/2022**	SeqNo: **3351768**	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	98.1	90	110			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2211B11**
13-Dec-22

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **TCLP Volatiles by 8260B**
Client ID: **LCSW** Batch ID: **T92875** RunNo: **92875**
Prep Date: Analysis Date: **11/28/2022** SeqNo: **3343660** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.50	0.02000	0	98.3	70	130			
1,1-Dichloroethene	ND	0.70	0.02000	0	95.5	70	130			
Trichloroethene (TCE)	ND	0.50	0.02000	0	96.5	70	130			
Chlorobenzene	ND	100	0.02000	0	110	70	130			
Surr: 1,2-Dichloroethane-d4	0.0092		0.01000		92.4	70	130			
Surr: 4-Bromofluorobenzene	0.0099		0.01000		99.0	70	130			
Surr: Dibromofluoromethane	0.0092		0.01000		91.8	70	130			
Surr: Toluene-d8	0.0096		0.01000		95.6	70	130			

Sample ID: **mb** SampType: **MBLK** TestCode: **TCLP Volatiles by 8260B**
Client ID: **PBW** Batch ID: **T92875** RunNo: **92875**
Prep Date: Analysis Date: **11/28/2022** SeqNo: **3343661** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.50								
1,2-Dichloroethane (EDC)	ND	0.50								
2-Butanone	ND	200								
Carbon Tetrachloride	ND	0.50								
Chloroform	ND	6.0								
1,4-Dichlorobenzene	ND	7.5								
1,1-Dichloroethene	ND	0.70								
Tetrachloroethene (PCE)	ND	0.70								
Trichloroethene (TCE)	ND	0.50								
Vinyl chloride	ND	0.20								
Chlorobenzene	ND	100								
Surr: 1,2-Dichloroethane-d4	0.0091		0.01000		91.5	70	130			
Surr: 4-Bromofluorobenzene	0.0097		0.01000		96.7	70	130			
Surr: Dibromofluoromethane	0.0093		0.01000		93.0	70	130			
Surr: Toluene-d8	0.0095		0.01000		94.6	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2211B11**
13-Dec-22

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **MB-71653** SampType: **MBLK** TestCode: **EPA Method 8270C TCLP**
Client ID: **PBW** Batch ID: **71653** RunNo: **92957**
Prep Date: **11/22/2022** Analysis Date: **12/1/2022** SeqNo: **3347037** 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	0.11		0.2000		52.9	18.1	88.9			
Surr: Phenol-d5	0.079		0.2000		39.5	17	61.5			
Surr: 2,4,6-Tribromophenol	0.14		0.2000		69.1	29.8	104			
Surr: Nitrobenzene-d5	0.062		0.1000		62.1	22.2	111			
Surr: 2-Fluorobiphenyl	0.064		0.1000		63.6	24.6	96.3			
Surr: 4-Terphenyl-d14	0.095		0.1000		94.6	53.4	124			

Sample ID: **LCS-71653** SampType: **LCS** TestCode: **EPA Method 8270C TCLP**
Client ID: **LCSW** Batch ID: **71653** RunNo: **92957**
Prep Date: **11/22/2022** Analysis Date: **12/1/2022** SeqNo: **3347038** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	0.054	0.00010	0.1000	0	54.1	19	106			
3+4-Methylphenol	0.11	0.00010	0.2000	0	55.9	16.3	112			
2,4-Dinitrotoluene	0.045	0.00010	0.1000	0	44.6	15	99.6			
Hexachlorobenzene	0.063	0.00010	0.1000	0	63.2	41.8	111			
Hexachlorobutadiene	0.044	0.00010	0.1000	0	43.6	15	91.5			
Hexachloroethane	0.046	0.00010	0.1000	0	45.6	15	87.5			
Nitrobenzene	0.052	0.00010	0.1000	0	51.8	19.3	114			
Pentachlorophenol	0.058	0.00010	0.1000	0	58.3	29	103			
Pyridine	0.041	0.00010	0.1000	0	40.6	15	92.6			
2,4,5-Trichlorophenol	0.061	0.00010	0.1000	0	60.8	25.2	114			
2,4,6-Trichlorophenol	0.058	0.00010	0.1000	0	58.3	25.7	112			
Cresols, Total	0.17	0.00010	0.3000	0	55.3	15	145			
Surr: 2-Fluorophenol	0.083		0.2000		41.5	18.1	88.9			
Surr: Phenol-d5	0.063		0.2000		31.6	17	61.5			
Surr: 2,4,6-Tribromophenol	0.12		0.2000		61.9	29.8	104			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2211B11**
13-Dec-22

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **LCS-71653** SampType: **LCS** TestCode: **EPA Method 8270C TCLP**
Client ID: **LCSW** Batch ID: **71653** RunNo: **92957**
Prep Date: **11/22/2022** Analysis Date: **12/1/2022** SeqNo: **3347038** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Nitrobenzene-d5	0.056		0.1000		56.3	22.2	111			
Surr: 2-Fluorobiphenyl	0.059		0.1000		59.1	24.6	96.3			
Surr: 4-Terphenyl-d14	0.076		0.1000		76.1	53.4	124			

Sample ID: **2211B11-001BMS** SampType: **MS** TestCode: **EPA Method 8270C TCLP**
Client ID: **S-24 (11/17/22)** Batch ID: **71653** RunNo: **92957**
Prep Date: **11/22/2022** Analysis Date: **12/1/2022** SeqNo: **3347045** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	0.072	0.00010	0.1000	0.01409	58.1	15.8	101			
3+4-Methylphenol	0.13	0.00010	0.2000	0.008422	62.0	16.9	97.9			
2,4-Dinitrotoluene	0.059	0.00010	0.1000	0	59.2	20.1	90.5			
Hexachlorobenzene	0.075	0.00010	0.1000	0	75.5	34	108			
Hexachlorobutadiene	0.063	0.00010	0.1000	0	62.6	15	99.7			
Hexachloroethane	0.060	0.00010	0.1000	0	60.4	15	86.4			
Nitrobenzene	0.061	0.00010	0.1000	0	60.7	15	109			
Pentachlorophenol	0.082	0.00010	0.1000	0	81.8	15	130			
Pyridine	0.037	0.00010	0.1000	0	37.3	15	82			
2,4,5-Trichlorophenol	0.075	0.00010	0.1000	0	75.3	28.1	105			
2,4,6-Trichlorophenol	0.072	0.00010	0.1000	0	71.8	21.5	110			
Cresols, Total	0.20	0.00010	0.3000	0	68.3	15	127			
Surr: 2-Fluorophenol	0.092		0.2000		46.1	18.1	88.9			
Surr: Phenol-d5	0.070		0.2000		35.0	17	61.5			
Surr: 2,4,6-Tribromophenol	0.18		0.2000		88.0	29.8	104			
Surr: Nitrobenzene-d5	0.070		0.1000		70.3	22.2	111			
Surr: 2-Fluorobiphenyl	0.067		0.1000		67.3	24.6	96.3			
Surr: 4-Terphenyl-d14	0.089		0.1000		89.1	53.4	124			

Sample ID: **2211B11-001BMSD** SampType: **MSD** TestCode: **EPA Method 8270C TCLP**
Client ID: **S-24 (11/17/22)** Batch ID: **71653** RunNo: **92957**
Prep Date: **11/22/2022** Analysis Date: **12/1/2022** SeqNo: **3347046** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	0.058	0.00010	0.1000	0.01409	43.6	15.8	101	22.3	20	R
3+4-Methylphenol	0.11	0.00010	0.2000	0.008422	50.0	16.9	97.9	20.0	20	
2,4-Dinitrotoluene	0.056	0.00010	0.1000	0	56.5	20.1	90.5	4.66	20	
Hexachlorobenzene	0.072	0.00010	0.1000	0	72.2	34	108	4.51	20	
Hexachlorobutadiene	0.027	0.00010	0.1000	0	27.3	15	99.7	78.6	20	R
Hexachloroethane	0.027	0.00010	0.1000	0	27.3	15	86.4	75.6	20	R
Nitrobenzene	0.043	0.00010	0.1000	0	42.9	15	109	34.3	20	R

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2211B11**
13-Dec-22

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **2211B11-001BMSD** SampType: **MSD** TestCode: **EPA Method 8270C TCLP**
Client ID: **S-24 (11/17/22)** Batch ID: **71653** RunNo: **92957**
Prep Date: **11/22/2022** Analysis Date: **12/1/2022** SeqNo: **3347046** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Pentachlorophenol	0.079	0.00010	0.1000	0	78.7	15	130	3.83	20	
Pyridine	0.013	0.00010	0.1000	0	13.2	15	82	95.2	20	RS
2,4,5-Trichlorophenol	0.067	0.00010	0.1000	0	66.7	28.1	105	12.1	20	
2,4,6-Trichlorophenol	0.062	0.00010	0.1000	0	62.0	21.5	110	14.7	20	
Cresols, Total	0.17	0.00010	0.3000	0	55.4	15	127	20.8	20	R
Surr: 2-Fluorophenol	0.076		0.2000		37.9	18.1	88.9	0	0	
Surr: Phenol-d5	0.061		0.2000		30.3	17	61.5	0	0	
Surr: 2,4,6-Tribromophenol	0.16		0.2000		79.1	29.8	104	0	0	
Surr: Nitrobenzene-d5	0.053		0.1000		53.3	22.2	111	0	0	
Surr: 2-Fluorobiphenyl	0.057		0.1000		57.1	24.6	96.3	0	0	
Surr: 4-Terphenyl-d14	0.085		0.1000		84.7	53.4	124	0	0	

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2211B11**
13-Dec-22

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **lcs-1 99.4uS eC**		SampType: **lcs**			TestCode: **SM2510B: Specific Conductance**					
Client ID: **LCSW**		Batch ID: **R92813**			RunNo: **92813**					
Prep Date:		Analysis Date: **11/23/2022**			SeqNo: **3341077**		Units: **µmhos/cm**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	100	10	99.40	0	103	85	115			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211B11**

13-Dec-22

Client: Souder, Miller and Associates

Project: Agua Moss Sunco 1

Sample ID: **MB-71977**	SampType: **MBLK**	TestCode: **EPA Method 7470A: Mercury**							
Client ID: **PBW**	Batch ID: **71977**	RunNo: **93189**							
Prep Date: **12/9/2022**	Analysis Date: **12/9/2022**	SeqNo: **3357856**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID: **LCSLL-71977**	SampType: **LCSLL**	TestCode: **EPA Method 7470A: Mercury**							
Client ID: **BatchQC**	Batch ID: **71977**	RunNo: **93189**							
Prep Date: **12/9/2022**	Analysis Date: **12/9/2022**	SeqNo: **3357857**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00020	0.00020	0.0001500	0	135	50	150			

Sample ID: **LCS-71977**	SampType: **LCS**	TestCode: **EPA Method 7470A: Mercury**							
Client ID: **LCSW**	Batch ID: **71977**	RunNo: **93189**							
Prep Date: **12/9/2022**	Analysis Date: **12/9/2022**	SeqNo: **3357858**	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	98.4	85	115			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2211B11**
13-Dec-22

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **MB-A**	SampType: **MBLK**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **PBW**	Batch ID: **A93075**	RunNo: **93075**
Prep Date:	Analysis Date: **12/6/2022**	SeqNo: **3352138** Units: **mg/L**

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

Sample ID: **LCS-A**	SampType: **LCS**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **A93075**	RunNo: **93075**
Prep Date:	Analysis Date: **12/6/2022**	SeqNo: **3352140** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	47	1.0	50.00	0	94.0	80	120			
Magnesium	52	1.0	50.00	0	104	80	120			
Potassium	53	1.0	50.00	0	106	80	120			

Sample ID: **2211B11-001DMS**	SampType: **MS**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **S-24 (11/17/22)**	Batch ID: **A93075**	RunNo: **93075**
Prep Date:	Analysis Date: **12/6/2022**	SeqNo: **3352181** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Magnesium	350	5.0	250.0	86.21	105	75	125			
Potassium	350	5.0	250.0	78.41	109	75	125			

Sample ID: **2211B11-001DMSD**	SampType: **MSD**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **S-24 (11/17/22)**	Batch ID: **A93075**	RunNo: **93075**
Prep Date:	Analysis Date: **12/6/2022**	SeqNo: **3352182** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Magnesium	340	5.0	250.0	86.21	103	75	125	1.87	20	
Potassium	340	5.0	250.0	78.41	107	75	125	1.82	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 standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2211B11**
13-Dec-22

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **MB-71619**	SampType: **MBLK**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW**	Batch ID: **71619**	RunNo: **93075**
Prep Date: **11/21/2022**	Analysis Date: **12/6/2022**	SeqNo: **3352126** Units: **mg/L**

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

Sample ID: **LCS-71619**	SampType: **LCS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW**	Batch ID: **71619**	RunNo: **93075**
Prep Date: **11/21/2022**	Analysis Date: **12/6/2022**	SeqNo: **3352128** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.41	0.030	0.5000	0	82.3	80	120			
Barium	0.41	0.0020	0.5000	0	82.6	80	120			
Cadmium	0.42	0.0020	0.5000	0	84.7	80	120			
Chromium	0.41	0.0060	0.5000	0	82.7	80	120			
Lead	0.42	0.020	0.5000	0	84.9	80	120			
Selenium	0.43	0.050	0.5000	0	86.4	80	120			
Silver	0.087	0.0050	0.1000	0	87.2	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 standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2211B11**
13-Dec-22

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **mb-1 alk**	SampType: **MBLK**	TestCode: **SM2320B: Alkalinity**							
Client ID: **PBW**	Batch ID: **R92750**	RunNo: **92750**							
Prep Date:	Analysis Date: **11/21/2022**	SeqNo: **3337983**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: **lcs-1 alk**	SampType: **LCS**	TestCode: **SM2320B: Alkalinity**							
Client ID: **LCSW**	Batch ID: **R92750**	RunNo: **92750**							
Prep Date:	Analysis Date: **11/21/2022**	SeqNo: **3337984**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	77.32	20.00	80.00	0	96.7	90	110			

Sample ID: **mb-2 alk**	SampType: **MBLK**	TestCode: **SM2320B: Alkalinity**							
Client ID: **PBW**	Batch ID: **R92750**	RunNo: **92750**							
Prep Date:	Analysis Date: **11/21/2022**	SeqNo: **3338006**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: **lcs-2 alk**	SampType: **LCS**	TestCode: **SM2320B: Alkalinity**							
Client ID: **LCSW**	Batch ID: **R92750**	RunNo: **92750**							
Prep Date:	Analysis Date: **11/21/2022**	SeqNo: **3338007**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	77.60	20.00	80.00	0	97.0	90	110			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2211B11**
13-Dec-22

Client: Souder, Miller and Associates
Project: Agua Moss Sunco 1

Sample ID: **MB-71648**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**							
Client ID: **PBW**	Batch ID: **71648**	RunNo: **92803**							
Prep Date: **11/22/2022**	Analysis Date: **11/23/2022**	SeqNo: **3340841**	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-71648**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**							
Client ID: **LCSW**	Batch ID: **71648**	RunNo: **92803**							
Prep Date: **11/22/2022**	Analysis Date: **11/23/2022**	SeqNo: **3340842**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1050	20.0	1000	0	105	80	120			

Qualifiers:

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

Page 149 of 673

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Souder, Miller and Associates | Work Order Number: 2211B11 | RcptNo: 1

Received By: Tracy Casarrubias 11/18/2022 6:20:00 AM

Completed By: Tracy Casarrubias 11/18/2022 6:36:38 AM

Reviewed By: KPa 11-18-22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

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

# of preserved bottles checked for pH: 3 2 (<2 or >12 unless noted)

Adjusted? NO

Checked by: JN 11/19/22

Special Handling (if applicable)

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

Person Notified: Date:

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

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good	Yes			
2	0.22	Good	Yes			

Received by OCD: 10/2/2023 3:49:18 PM

Released to Imaging: 10/2/2023 4:00:31 PM

Chain-of-Custody Record

Client: Souder, Miller & Associates

Mailing Address: 401 W. Broadway
Farmington, NM 87401

Phone #: (505) 716-2707

email or Fax#: heather.woods@soudermiller.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name:
Agua Moss Sunco #1

Project #:

Project Manager:
Heather Woods

Sampler: Heathe Woods

On Ice: ☒ Yes ☐ No

# of Coolers: 2

Cooler Temp (including CF): 1.4 - 0.2 = 1.2 (°C)
0.4 - 0.2 = 0.2

HEAL No. 2211811

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
11/17/22	1200	Aq	S-24 (11-17-22)	(5) 1L Amber	NoN	001
11/17				(2) 500ml Plastic	NoN	
Per sample bottles				(1) 500 ML Plastic	Zinc acetate NaOH	
				(1) 125ml Plastic	Filtered HNO3	
				(1) 125ml Plastic	H_2SO_4	
				(1) 250 Amber	NaOH	
				(3) 40 ml VOA	$HgCl_2$	
				(1) 250 ml plastic	HNO_3	

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

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	See Attached Page(s)
										X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
11/17/22	1634		Christian Walker		11/17/22	1634
11/17/22	1804	Christian Walker		Courier	11/18/22	6:20

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

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

Page 151 of 673

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

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

Received by OCD: 10/2/2023 3:49:18 PM

Released to Imaging: 10/2/2023 4:00:31 PM

Page 152 of 673

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

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

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

ADDTIONALLY:

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

Received by OCD: 10/2/2023 3:49:18 PM

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Appendix C

UICI-005

EPA FALL OFF TEST REPORT

2022

From: Philana Thompson
To: Chavez, Carl, EMNRD
Subject: [EXTERNAL] FOT Submittal
Date: Monday, October 10, 2022 12:25:04 PM

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

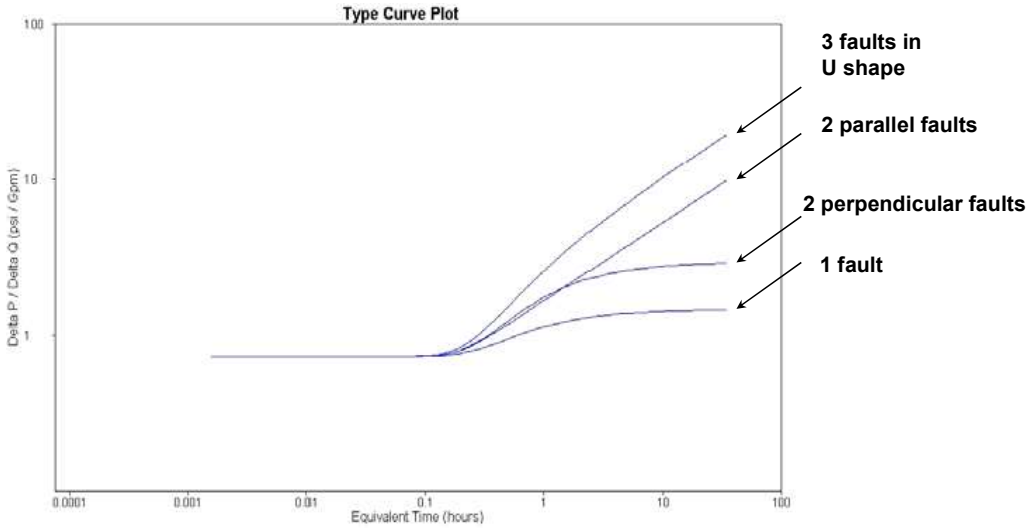
The FOT has been submitted electronically Doc ID 149870

Thank you,
Philana

Philana Thompson
(505) 486-1171
HSE & Regulatory Compliance
Merrion Oil & Gas Corporation

Released to Imaging: 10/2/2023 4:00:31 PM
Received by OCD: 10/2/2023 3:49:18 PM

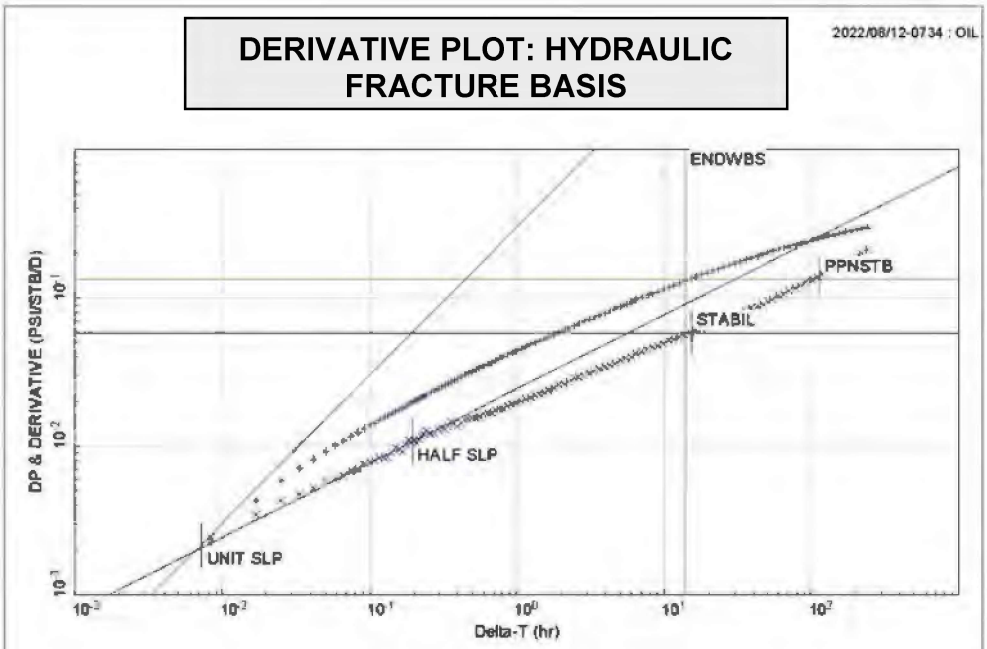
Boundary Effects from Sealing Faults – Derivative Patterns



Released to Imaging: 10/2/2023 4:00:31 PM

Received by OCD: 10/2/2023 3:49:18 PM

DERIVATIVE PLOT: HYDRAULIC FRACTURE BASIS



Sunco Disposal #1

Partial Penetration Vertical Fracture

well. storage	= 0.140 BBLS/PSI
skin	= -5.31
permeability	= 8.08 MD
Perm-Thickness	= 889. MD-FEET
Half.Length	= 586. FEET
Hp/Heff	= 0.435
Eff. Thickness	= 110. FEET
P-extrap.	= 3360.53 PSI
R(inv) at 15.09 hr	= 456. FEET
Smoothing Coef	= 0.,0.

Static-Data and Constants

Volume-Factor	= 1.002 vol/vol
Thickness	= 110.0 FEET
Viscosity	= 0.7370 CP
Total Compress	= .7140E-05 1/PSI
Rate	= -1685. STB/D
Storivity	= .8954E-04 FEET/PSI
Diffusivity	= 3551. FEET^2/HR
Gauge Depth	= 4362. FEET
Perf. Depth	= 4350. FEET
Datum Depth	= 4362. FEET
Analysis-Data	ID: GAU007
Based on Gauge	ID: GAU007
PFA Starts:	2022-08-08 12:28:55
PFA Ends :	2022-08-22 09:21:25

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

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-103
Revised July 18, 2013

WELL API NO.
30-045-28653

5. Indicate Type of Lease
STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

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

7. Lease Name or Unit Agreement Name
Sunco Disposal

1. Type of Well: Oil Well ☐ Gas Well ☐ Other SWD Class I

8. Well Number #1

2. Name of Operator
Agua Moss, LLC

9. OGRID Number
247130

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

10. Pool name or Wildcat
SWD-MV

4. Well Location
Unit Letter__E__:___1595____feet from the _____North___ line and ___1005___feet from the _West_____line
Section 2 Township 29N Range 12W NMPM County San Juan

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

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

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

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

Agua Moss, LLC completed the FOT 8/22/2022, see the attached FOT Analysis and results

Spud Date: | Rig Release Date:

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

SIGNATURE__Philana Thompson_____ TITLE_____HSE & Regulatory Compliance Specialist_____DATE__10/7/2022_____

Type or print name __Philana Thompson_____ E-mail address: __pthompson@merrion.bz_____ PHONE: _505-486-1171____

For State Use Only

APPROVED BY:_____TITLE_____DATE_____
Conditions of Approval (if any):

Sunco SWD #1

30-045-28653

Class I Disposal: UICI-5-0

2022 Fall off Test

Agua Moss, LLC

P.O Box 600

Farmington, NM 87499

ORGID 247130

Report Components:

1. Facility Operator Information
    a. Agua Moss, LLC
    b. PO Box 600 Farmington, NM 87499
    c. OGRID 247130
2. Well Information:
    a. UIC Permit # UICI-5-0
    b. Class I
    c. Sunco Disposal #1
    d. 30-045-28653
    e. UL E, Sec 2, T29N, R12W 1595 FNL & 1005 FWL San Juan County
3. Current Wellbore Diagram: **Attached** (page 4)
4. Copy of Electronic Log: **Previously submitted 1992** (Page 36)
5. Copy of Porosity Log: **Previously submitted 1992** (Page 37)
6. See attached Fall off Test Analysis
    a. Fall off Test Procedure (Page 5)
    b. Analysis (Page 5)
    c. Results (Page 27)
    d. Summary (Page 27)
7. Results Comparison attached (page 28)
8. The raw test data will be kept on file for a period of 3-years and will be made available to the NMOCD upon written request. (Page 48)
9. Conclusions (page 28)
10. Any pressure or temperature anomaly: At 9:15 pm on 9/9/2022 the pumps shut down due to the high pressure kill, the pumps were immediately restarted, and the issues resolved. The injection period was extended by 24 hours to achieve the 50 hours of uninterrupted injection time.
11. Plots attached
    a. Pressure and Rate (fig 3) (page 29)
    b. Injection Rate vs Time (fig 4) (page 30)
    c. Pressure and Rate (fig 5) (page 31)
    d. Elapsed Time (fig 2) (page 5)
    e. Derivative Plot (fig 6) (page 32)
    f. Horner Plot (fig 7) (page 33)
    g. Elapsed Gauge Time (fig 8) (page 34)
    h. Injection Volumes and Surface Pressure (fig 9) (page 35)
12. NO PVT data necessary, wellbore fluid is fresh-to-slightly saline water. No significant hydrocarbons present that would alter the density, compressibility and/or viscosity of the fluid.
13. The Agua Moss, LLC internal Daily Injection Reports were used to determine the appropriate injection history to use for the analysis. A summary of those reports (January 2022 through July 2022) are attached. (page 39-41)
14. The Sunco Disposal #1 has injected approximately 16,689,852 bbls into the point lookout formation from 1994 through August 2022. The offset well McGrath SWD #4 API 30-045-25923 was plugged 7/25/2013. Cumulative injection 1994-7/2013 27,746,479 bbls.
15. 2 Mile AOR:

a. AOR 2 mile (page 42)
b. AOR 2 mile well data (page 43-47)
c. The McGrath #4 was the only offset well that was injecting into the Point Lookout formation within 1 mile. This well was plugged 7/25/2013.

16. Geological information was provided in the 2012 Permit renewal and approved in 2012.
17. Offset Wells: One offset well that was completed in the same injection interval was the McGrath #4. This well was plugged 7/2013 and therefore was not impacted.
18. Chronological listing of the daily, testing activities (Operations Log) attached (page 48-50)
    a. Date of Test: 8/8/2022 – 8/22/2022
    b. Type of injection fluid: Produced water
    c. Final Injection Pressure & Temp prior to shutting in the well: 3787 psi, 33°C
    d. Total shut-in time: 240 hours
    e. Final static pressure & temp at the end of the fall-off portion of the test: 3263 psi, 46°C
19. Location of the shut-in valve: **A wing valve located on the well's Christmas tree was closed to begin the FOT**
20. Pressure Gauges: (pages 51)
    a. 3V Sapphire – 4M gauge Model 1139
    b. Pressure range: **16-15,000 psig**
    c. Last Calibration: **2/27/2022**

Wellbore Schematic:

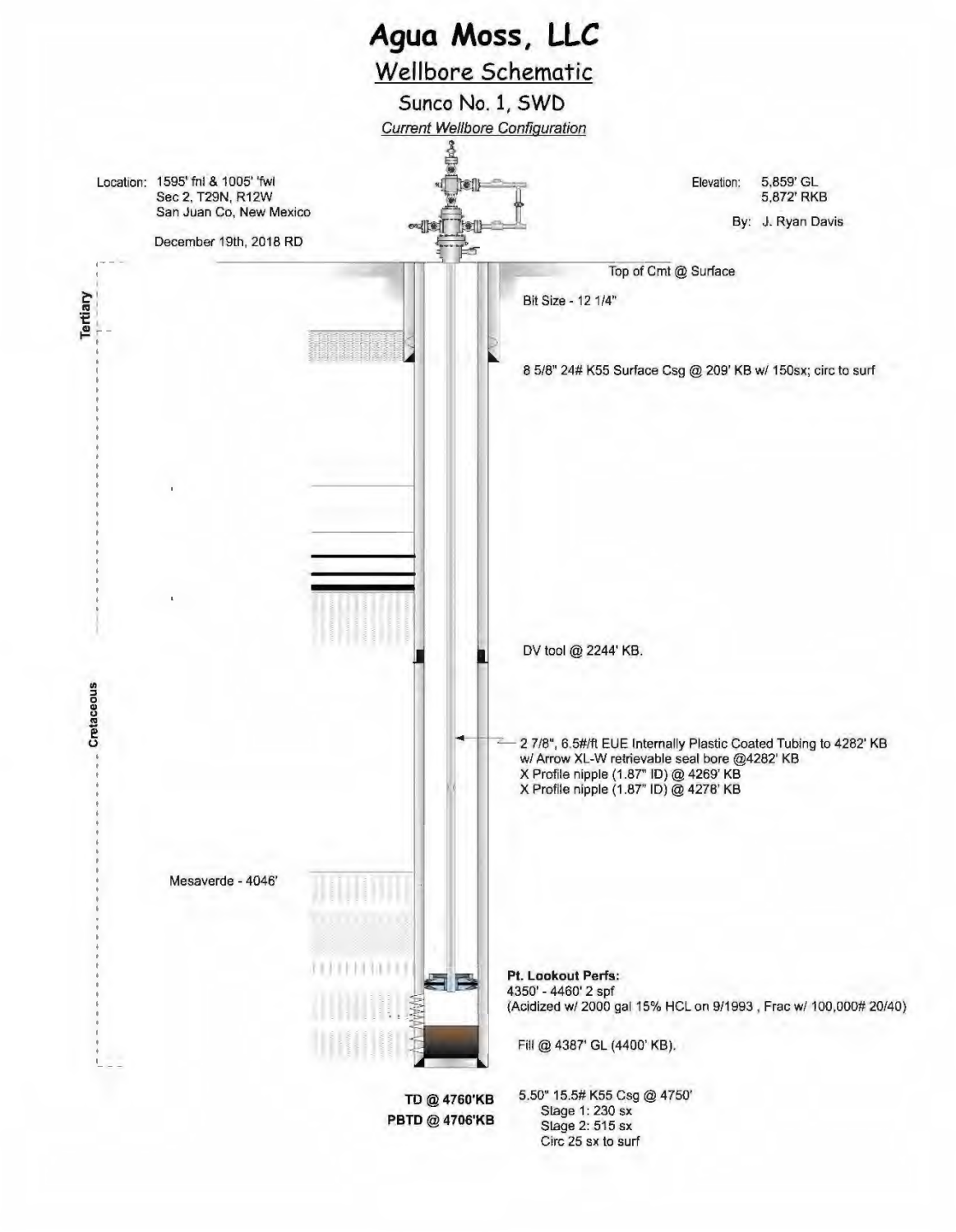


Figure 1: Wellbore Schematic

At the request of the NMOCD and permit requirements, a Falloff Test (FOT) was performed on the Sunco SWD #1 Class I injection well (UICI-5-0) from **8/8/2022 to 8/22/2022**. Below is a summary of findings from the FOT.

Procedure:

Tandem electronic gauges were run in the subject well along with two Foxboro IGP10S industrial pressure transducers installed at surface. The initial BHP was 3229 psi at a depth of 4269'. The injection period started at 12:29 pm on 08/08/2022, with a total of 6,461 bbls injected over 93 hours and an average injection rate of 1,684 bpd (49 gpm). At 9:15 pm on 9/9/2022 the pumps shut down due to high pressure kill, the pumps were immediately restarted and the issues resolved. The injection period was extended by 24 hours to achieve the 50 hours of uninterrupted injection time. The final bottom hole injection pressure was 3787 psi. Injection was shut down and the well was shut it at the wellhead. The bottom hole pressures were monitored for 240 hours of pressure falloff. The final BHP was 3263 psi.

Analysis:

The FOT data was compiled in excel and analyzed. The data was also given to a third party consultant for further analysis and confirmation of results, the analysis is found on pages 8 -20.

A Cartesian plot of pressure and temperature versus elapsed time is presented in Figure 2 below. The stabilization of pressure was confirmed prior to shut-in. The plot was reviewed for anomalous data and none was found other than the data from 9:15 pm on 9/9/22 when the pumps shut down.

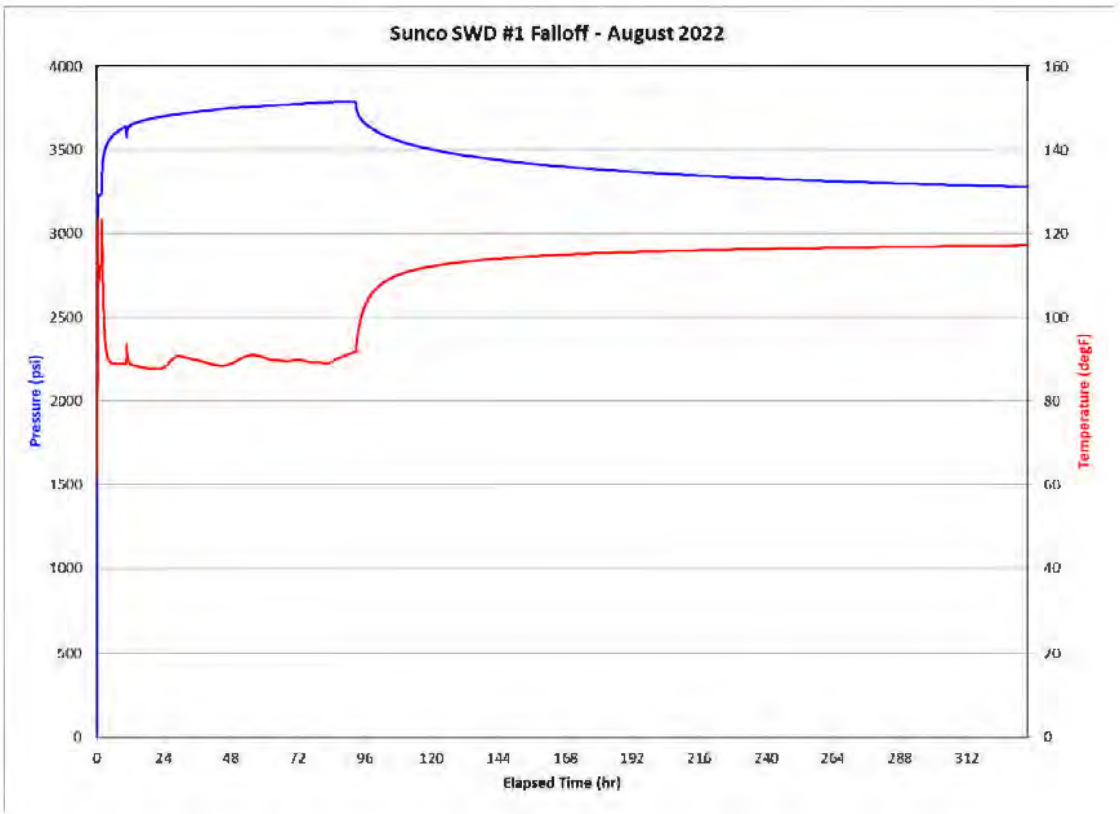


Figure 2 BH Pressure and Temperature vs. Time

IRT Analysis



2022 Fall-off Pressure Test Analysis
for the
Sunco Disposal Well #1
San Juan County, New Mexico

prepared for

Merrion Oil and Gas Corporation

16 September 2022

International Reservoir Technologies, Inc.
Lakewood, Colorado, USA

Tel. (303) 279-0877
Fax (303) 279-0936



Sunco Disposal Well #1 2022 Fall-off Test Results

Summary:

The results of the 2022 fall off test (FOT) for the Sunco Disposal Well #1 indicate that the reported wellbore fill at the depth of 4374 feet GL did influence the test analysis. However, a set of satisfactory results was obtained using the three different analysis methods as described below. The calculated results are comparable to the 2015, 2016, 2017 and 2018 fall-off test results.

Both the bottom hole gauge data and the surface gauge reported pressures were analyzed for this report. The results were similar for both data sets which would support using only a surface gauge for the FOT in the future.

As noted in the 2018 report, the pressure transient effects of the partial penetration condition of the completion due to the fill, plus the hydraulic fracture and the wellbore storage effects do obscure to some extent the reservoir property influences; however, again a reasonable and satisfactory set of reservoir properties could be calculated. The conventional straight-line analysis for extrapolated pressure and the reservoir property calculations from the MDH type plot is acceptable and the type curve analysis and the derivative plot results are reasonable. The input parameters for the fluid properties (i.e. PVT data) were the same as the 2018, 2017 and 2016 tests with the source being the report titled “2nd Quarter 2016 Sampling - Injection Well.pdf”, NM1-9 INJECTION WELL ANALYTICAL RESULTS, Agua Moss Disposal Facility, Crouch Mesa Road, San Juan County, New Mexico, 6/28/16.

For the analysis using the BH gauge data, the results from the derivative, Horner and MDH type pressure plots are summarized in the table below. The results for the different methods were consistent and the average calculated properties were:

- Estimated Kw (permeability) = 9.1 md
- Estimated skin = -5.8
- Extrapolated pressure = 3,303 psig
- Fracture half-length = 586 feet (from derivative half-slope line)
- Radius of investigation = 1,690 feet

Calculated Reservoir Parameters - Bottom Hole Guage				
	Horner Analysis	MDH Plot	Derivative Plot	Average
Estimated Kw (permeability, mD)	11.5	7.7	8.1	9.1
Estimated skin (dimensionless)	-6.7	-5.5	-5.3	-5.8
Extrapolated pressure (psig)	3,174	3,375	3,361	3,303
Fracture half-length (feet)	--	--	586	586
Radius of investigation (feet)	--	1,960	--	1,960



For the analysis using the surface gauge data, the results from the derivative, Horner and MDH type pressure plots are summarized in the table below. The surface recorded data was adjusted to BH datum of 4362 feet using a gradient of 0.431 psi/foot. Also, the initial few minutes of surface gauge data was smoothed slightly due to erratic points caused by the proximity to the pump as the injection was stopped.

The results for the different methods were consistent and the average calculated properties were:

- Estimated Kw (permeability) = 8.7 md
- Estimated skin = -5.8
- Extrapolated pressure = 3,293 psig
- Fracture half-length = 701 feet (from derivative half-slope line)
- Radius of investigation = 1,930 feet

Calculated Reservoir Parameters - Gauge (Adjusted to BH Datum)				
	Horner Analysis	MDH Plot	Derivative Plot	Average
Estimated Kw (permeability, mD)	10.8	8.0	7.3	8.7
Estimated skin (dimensionless)	-6.7	-5.4	-5.4	-5.8
Extrapolated pressure (psig)	3,168	3,372	3,339	3,293
Fracture half-length (feet)	--	--	701	701
Radius of investigation (feet)	--	1,930	--	1,930

Larger versions of the following analysis plots appear at the end of this document.



Input data and assumptions:

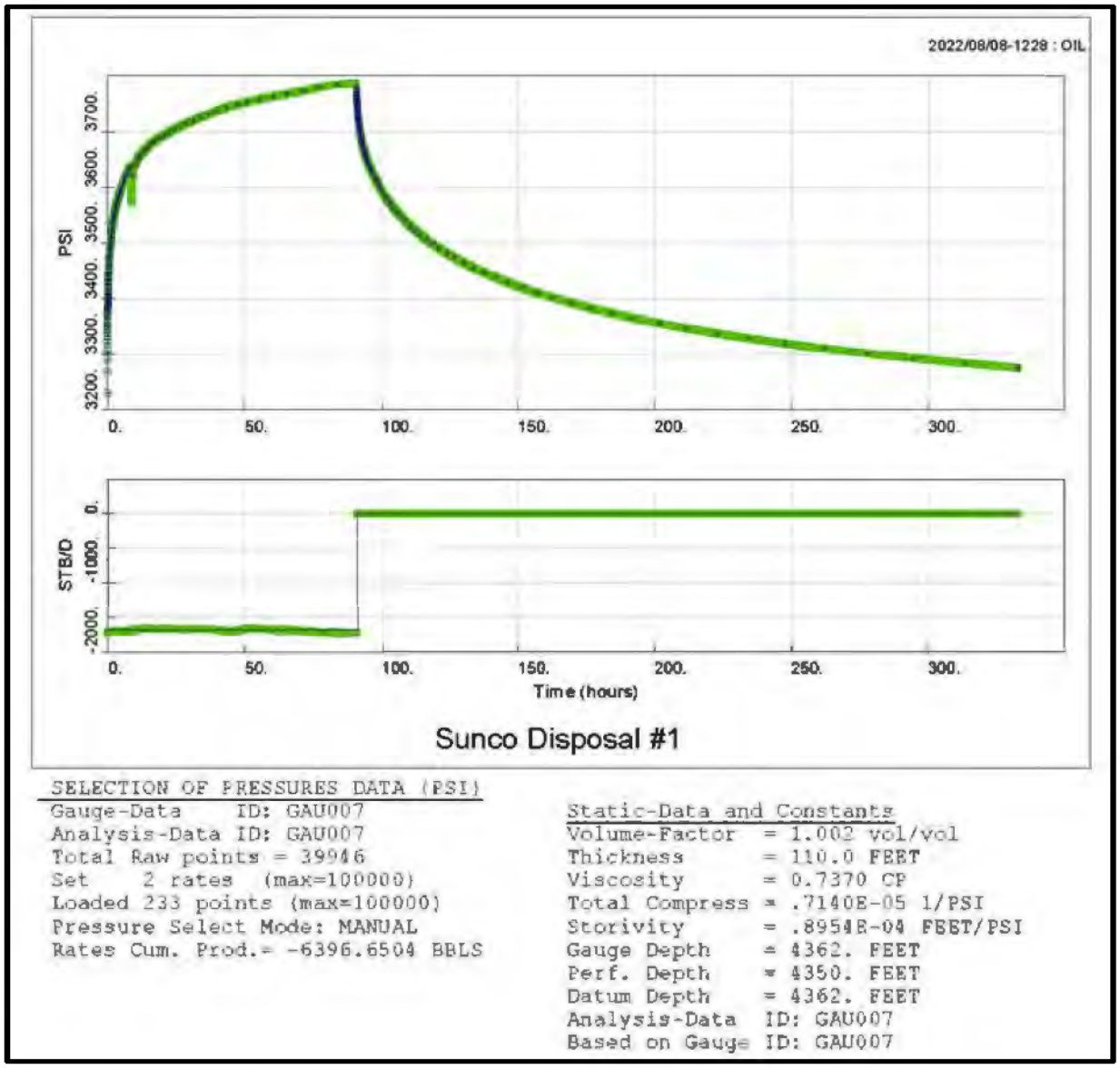
Assumptions:

- Formation fluid properties equal injection water properties due to cumulative volume injected and miscibility of formation water and injection water
- Reservoir temperature = 91 deg F
- Porosity = 0.114 (fraction, estimated from density log)
- Net pay = 110 feet
- Rock compressibility = 4.50E-06 1/psi (correlation)
- Wellbore radius = 0.506 ft
- Wellbore volume total = 34.88 bbls (tubing = 24.79 bbls, casing = 10.09 bbls)
- Wellbore compressibility = injection water compressibility =2.64E-06 1/psi (from Osif correlation)
- Injected water specific gravity = 1.006 (pure water =1.0); density = 8.392 lb./gal, TDS = 15,500 mg/L
- Injected water FVF = 1.0023 rb/stb (McCain correlation)
- Injected water viscosity = 0.737 cp (McCain correlation)

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BOTTOM HOLE GAUGE PRESSURE & RATE DATA PLOT:

This plot shows the raw data from the bottom hole pressure gauge and the injection rate data.





BOTTOM HOLE GAUGE DERIVATIVE PLOT:

Conclusions: The behavior of the derivative curve is affected by the wellbore fill, the wellbore storage and the influence of an apparent hydraulic fracture. The derivative analysis was made using a hydraulic fracture reservoir model, with partial penetration, to best calculate the reservoir properties.

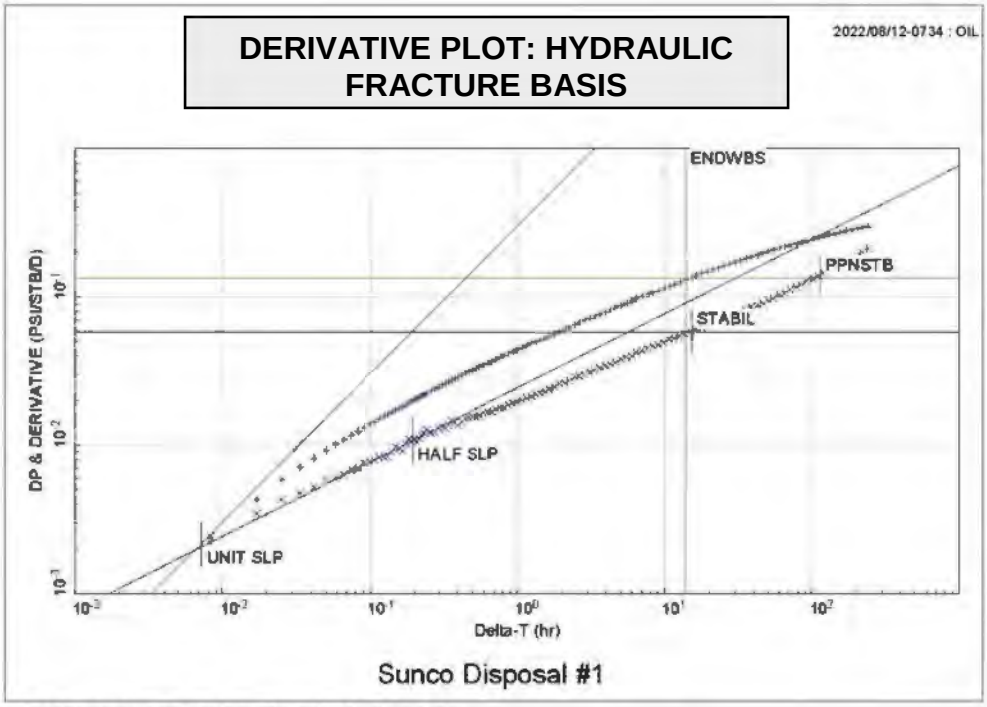
The plot below implies a half-slope as shown in the derivative curve which is characteristic of linear-flow due to a hydraulic-fracture. The calculated permeability is 8.1 md and the calculated half-length for the fracture was 586 feet.

- Estimated Kw (permeability) = 8.1 md
- Estimated skin = -5.3
- Fracture half-length = 586 feet
- Estimated extrapolated pressure = 3,361 psig



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DERIVATIVE PLOT: HYDRAULIC FRACTURE BASIS



Partial Penetration Vertical Fracture

well. storage	= 0.140 BBLS/PSI
skin	= -5.31
permeability	= 8.08 MD
Perm-Thickness	= 889. MD-FEET
Half.Length	= 586. FEET
Hp/Heff	= 0.435
Eff. Thickness	= 110. FEET
P-extrap.	= 3360.53 PSI
R(inv) at 15.09 hr	= 456. FEET
Smoothing Coef	= 0.,0.

Static-Data and Constants

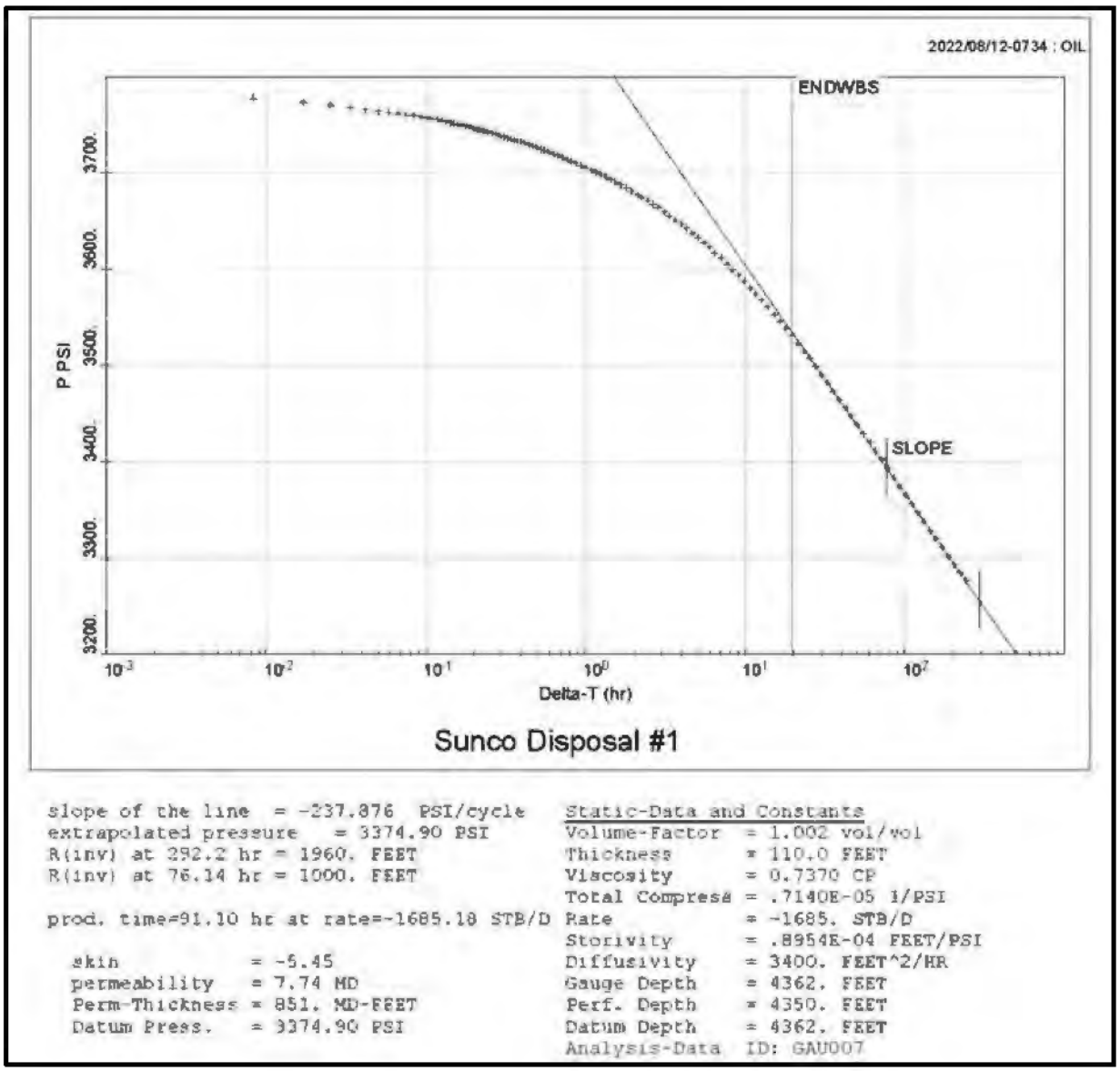
Volume-Factor	= 1.002 vol/vol
Thickness	= 110.0 FEET
Viscosity	= 0.7370 CP
Total Compress	= .7140E-05 1/PSI
Rate	= -1685. STB/D
Storivity	= .8954E-04 FEET/PSI
Diffusivity	= 3551. FEET^2/HR
Gauge Depth	= 4362. FEET
Perf. Depth	= 4350. FEET
Datum Depth	= 4362. FEET
Analysis-Data	ID: GAU007
Based on Gauge	ID: GAU007
PFA Starts:	2022-08-08 12:28:55
PFA Ends :	2022-08-22 09:21:25

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BOTTOM HOLE GAUGE MDH PLOT:

Conclusions: The MDH stabilized flow period was reached relatively late in the conventional straight-line extrapolation for the extrapolated pressure, however the MDH values do appear reasonable.

- Estimated extrapolated pressure = 3,375 psig
- Estimated Kw (permeability) = 7.7 md
- Estimated skin = -5.5
- Radius of investigation = 1,960 feet

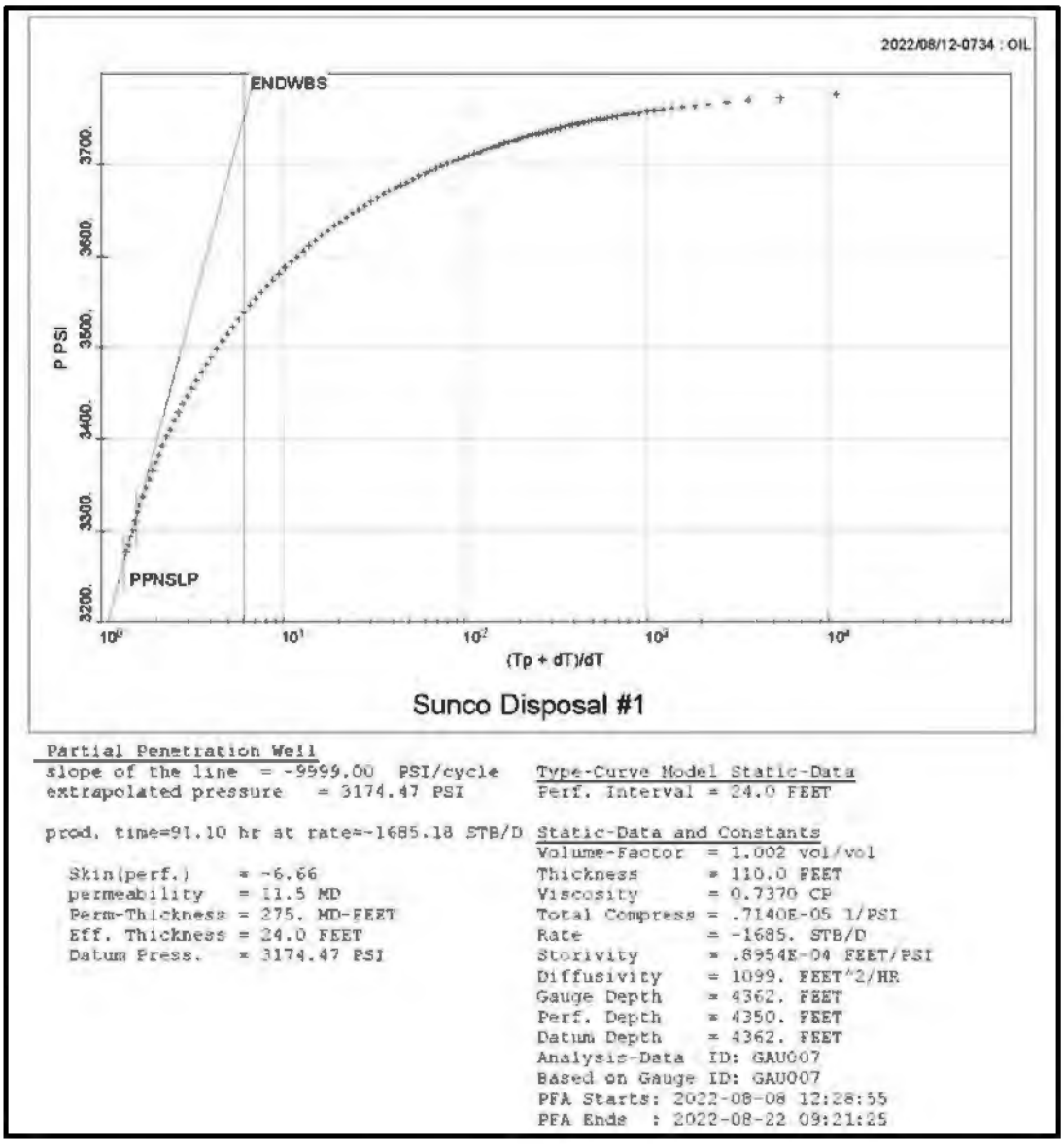


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BOTTOM HOLE GAUGE HORNER PLOT:

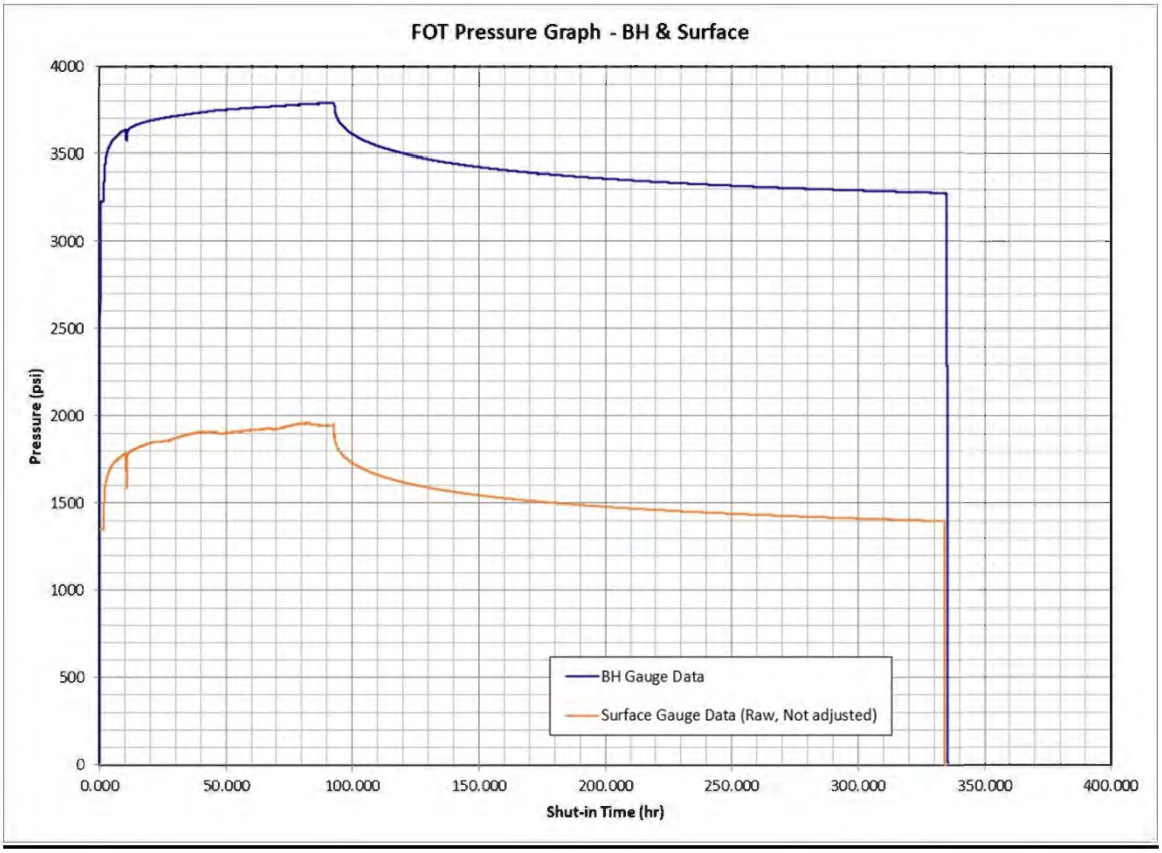
Conclusions: The stabilized flow period was reached late in the conventional straight-line extrapolation; however, the calculated reservoir parameters do appear reasonable.

- Estimated extrapolated pressure = 3,174 psig
- Estimated Kw (permeability) = 11.5 md
- Estimated skin = -6.7



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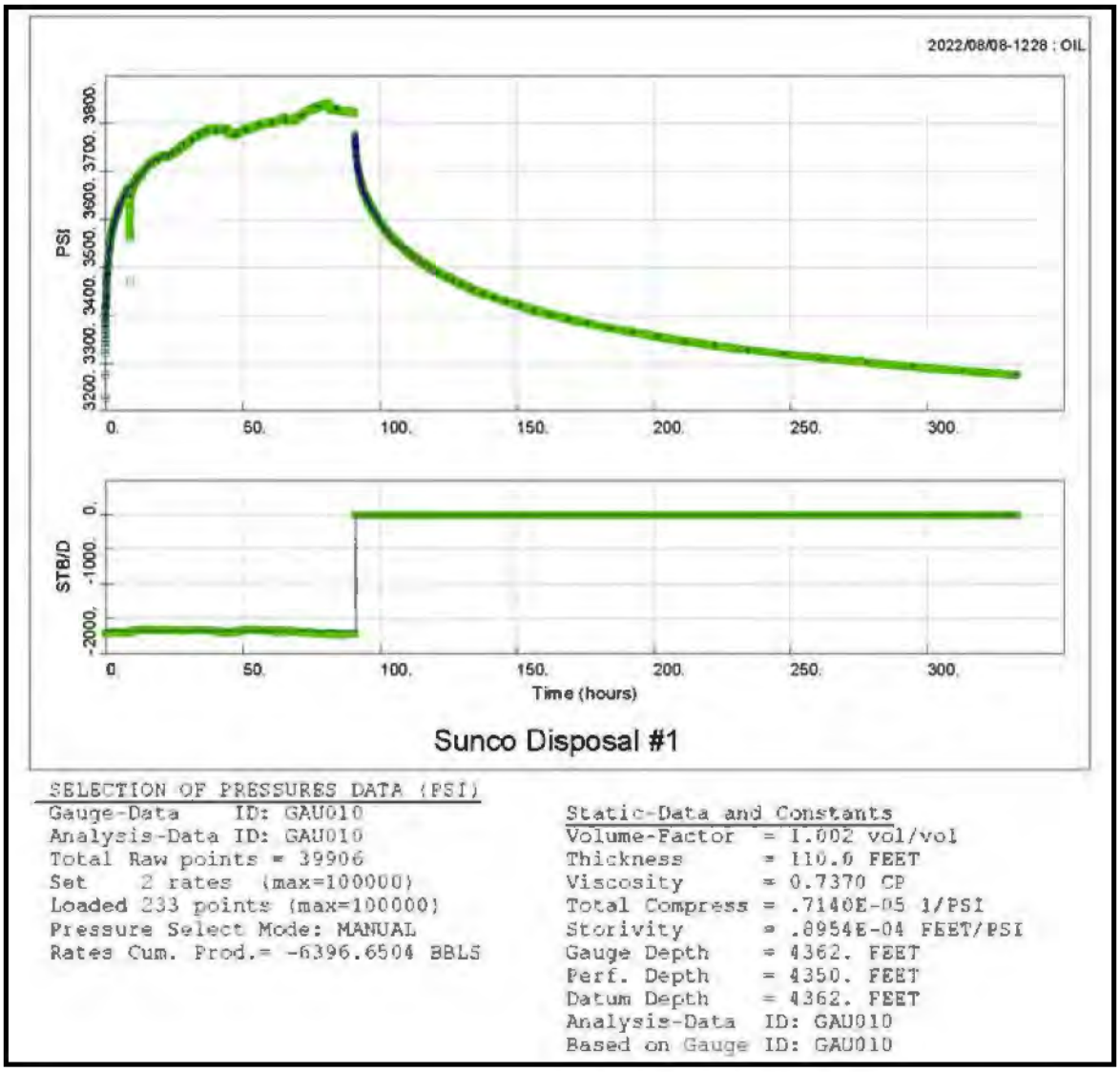
SURFACE GAUGE & BOTTOM HOLE GAUGE PRESSURE COMPARISON PLOT:



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SURFACE GAUGE PRESSURE (ADJUSTED) & RATE DATA PLOT:

This plot shows the pressure data from the surface gauge after adjustment to the BH datum of 4362 feet and the injection rate data.



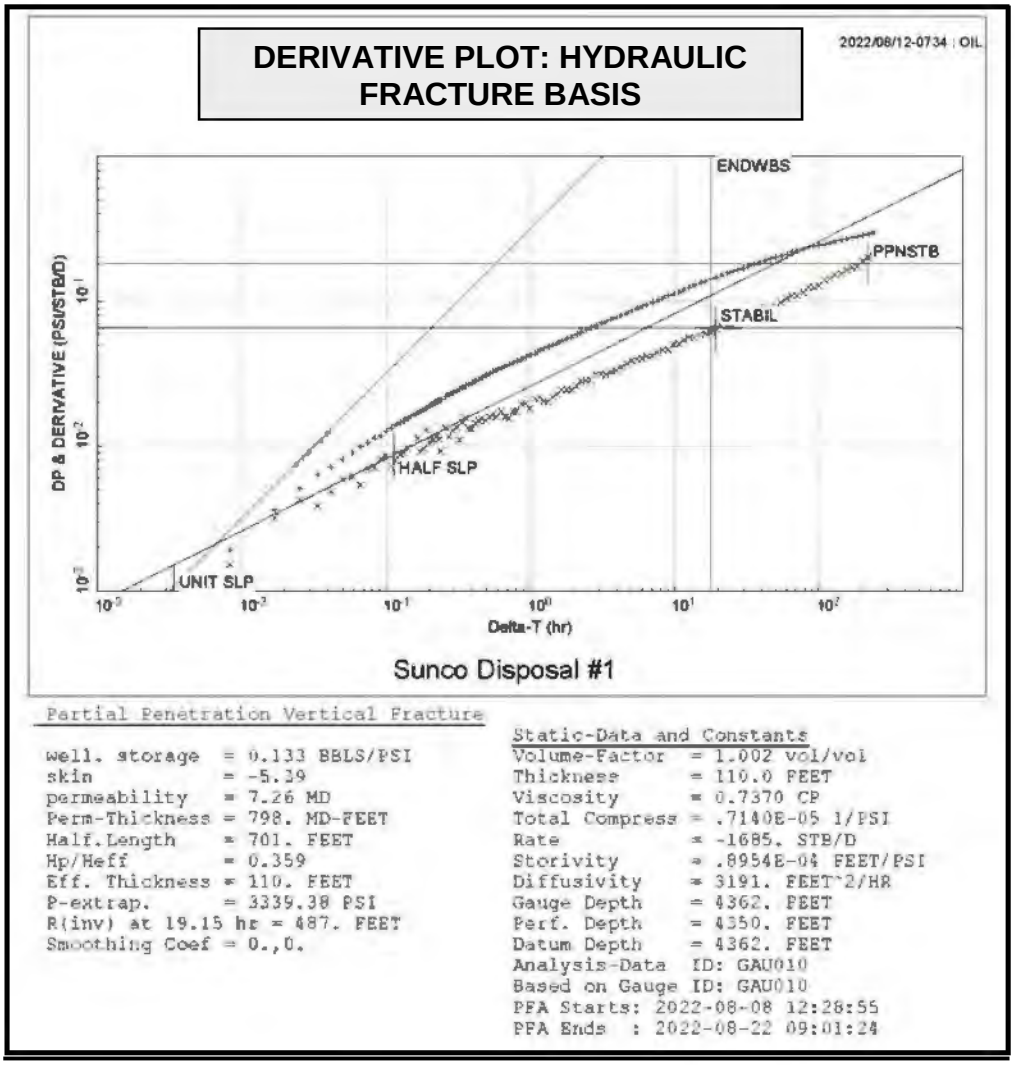


SURFACE GAUGE PRESSURE (ADJUSTED) DERIVATIVE PLOT:

Conclusions: As with the BH gauge data, the behavior of the derivative curve is affected by the wellbore fill, the wellbore storage, and the influence of an apparent hydraulic fracture. Again, the derivative analysis was made using a hydraulic fracture reservoir model, with partial penetration, to best calculate the reservoir properties.

The plot below implies a half-slope as shown in the derivative curve which is characteristic of linear-flow due to a hydraulic-fracture. The calculated permeability is 7.3 md and the calculated half-length for the fracture was 701 feet.

- Estimated Kw (permeability) = 7.3 md
- Estimated skin = -5.4
- Fracture half-length = 701 feet
- Estimated extrapolated pressure = 3,339 psig

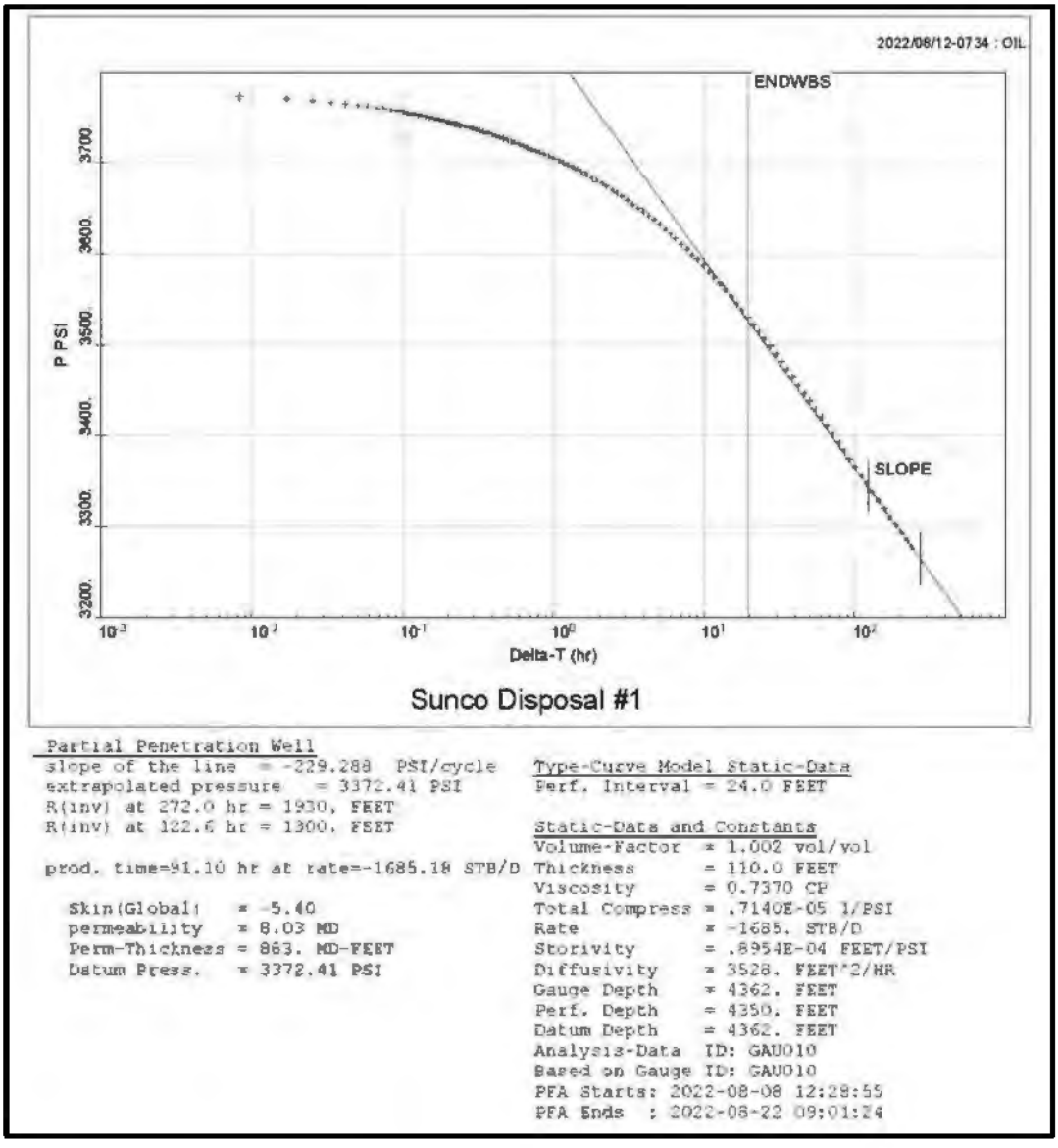


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SURFACE GAUGE PRESSURE (ADJUSTED) MDH PLOT:

Conclusions: As with the bottom hole gauge data, the MDH stabilized flow period was reached relatively late in the conventional straight-line extrapolation for the extrapolated pressure, however the MDH values do appear reasonable.

- Estimated extrapolated pressure = 3,372 psig
- Estimated Kw (permeability) = 8.0 md
- Estimated skin = -5.4
- Radius of investigation = 1,930 feet

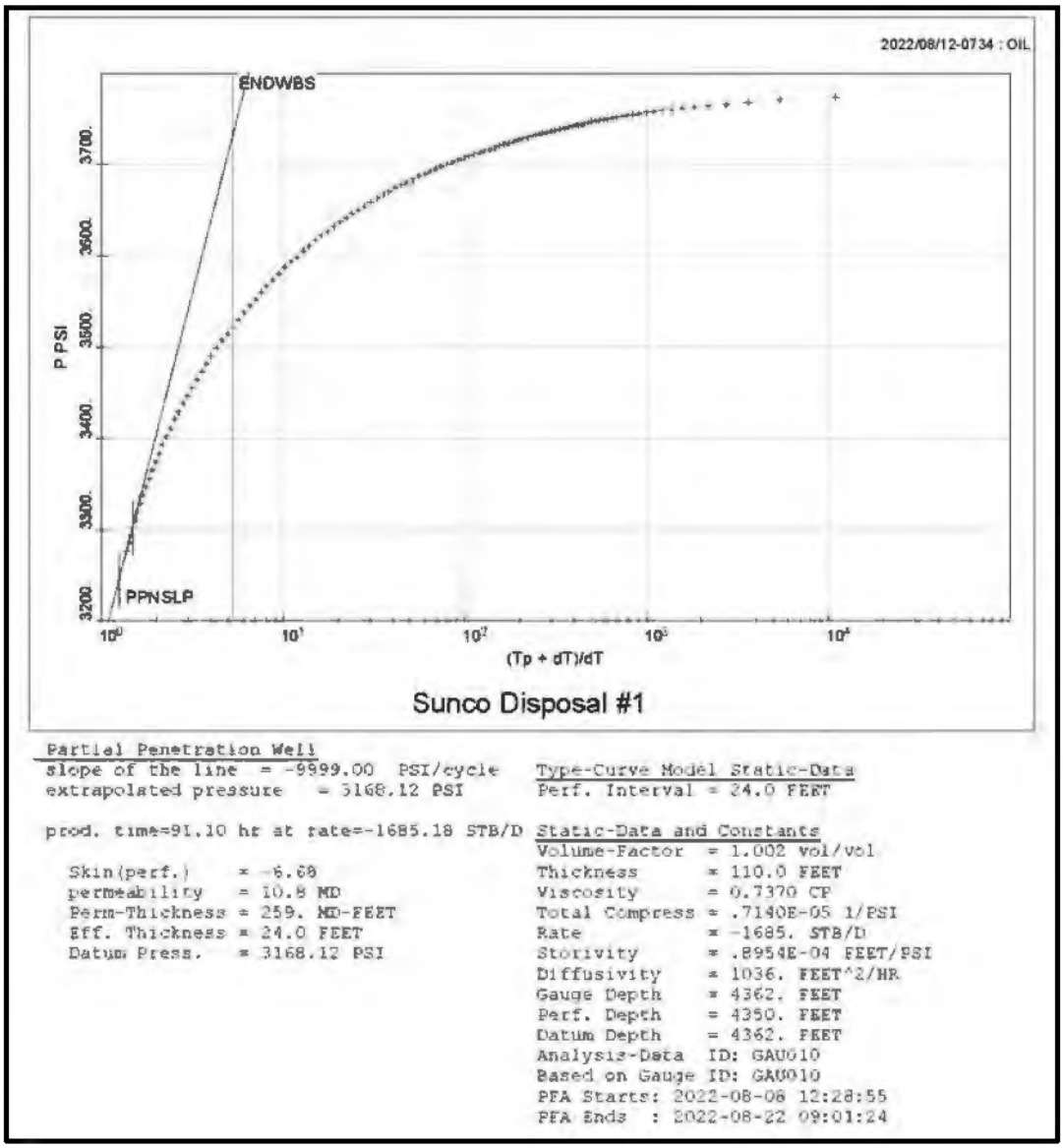


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SURFACE GAUGE PRESSURE (ADJUSTED) HORNER PLOT:

Conclusions: The stabilized flow period was reached late in the conventional straight-line extrapolation; however, the calculated reservoir parameters do appear reasonable.

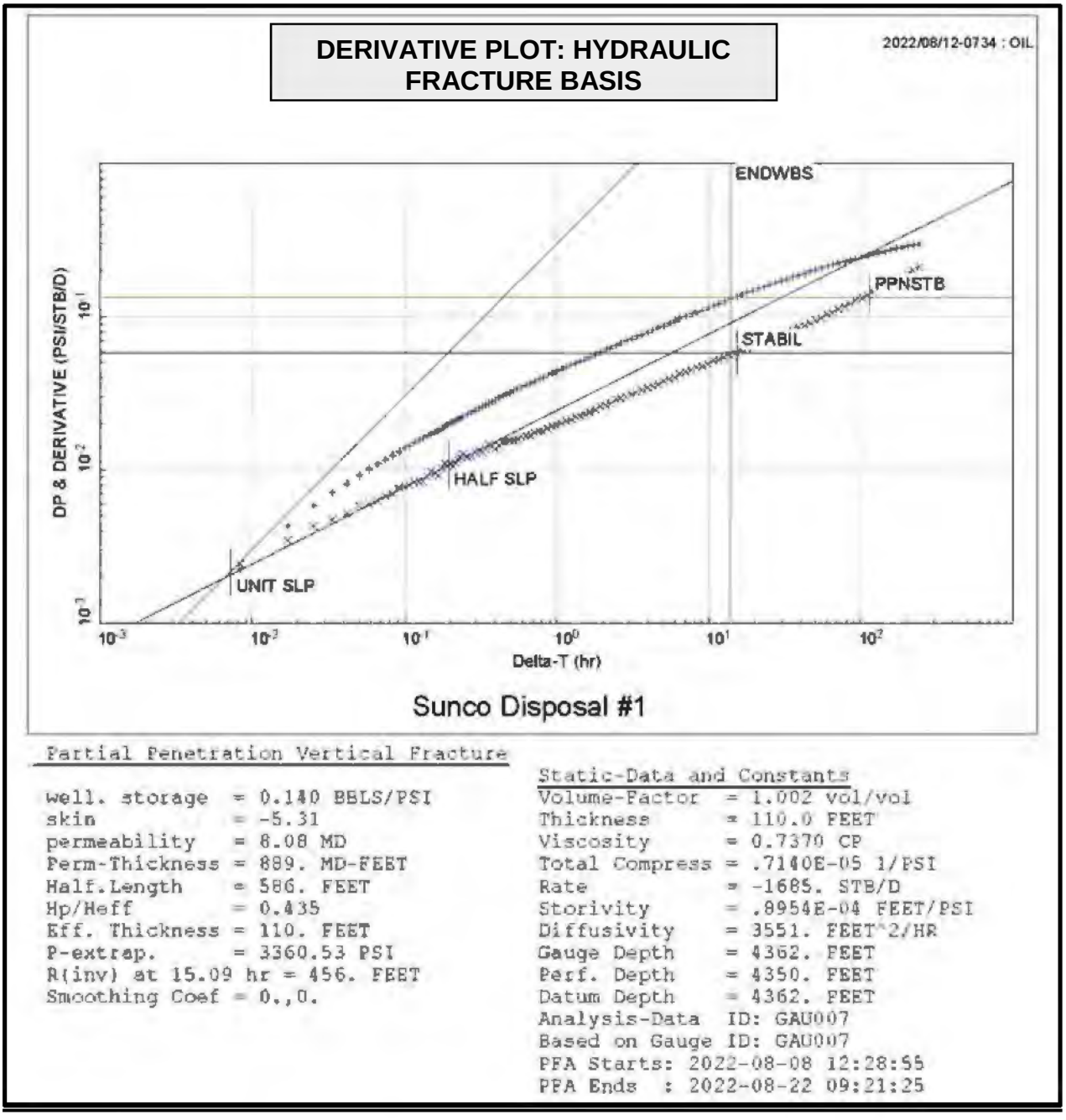
- Estimated extrapolated pressure = 3,168 psig
- Estimated Kw (permeability) = 10.8 md
- Estimated skin = -6.7



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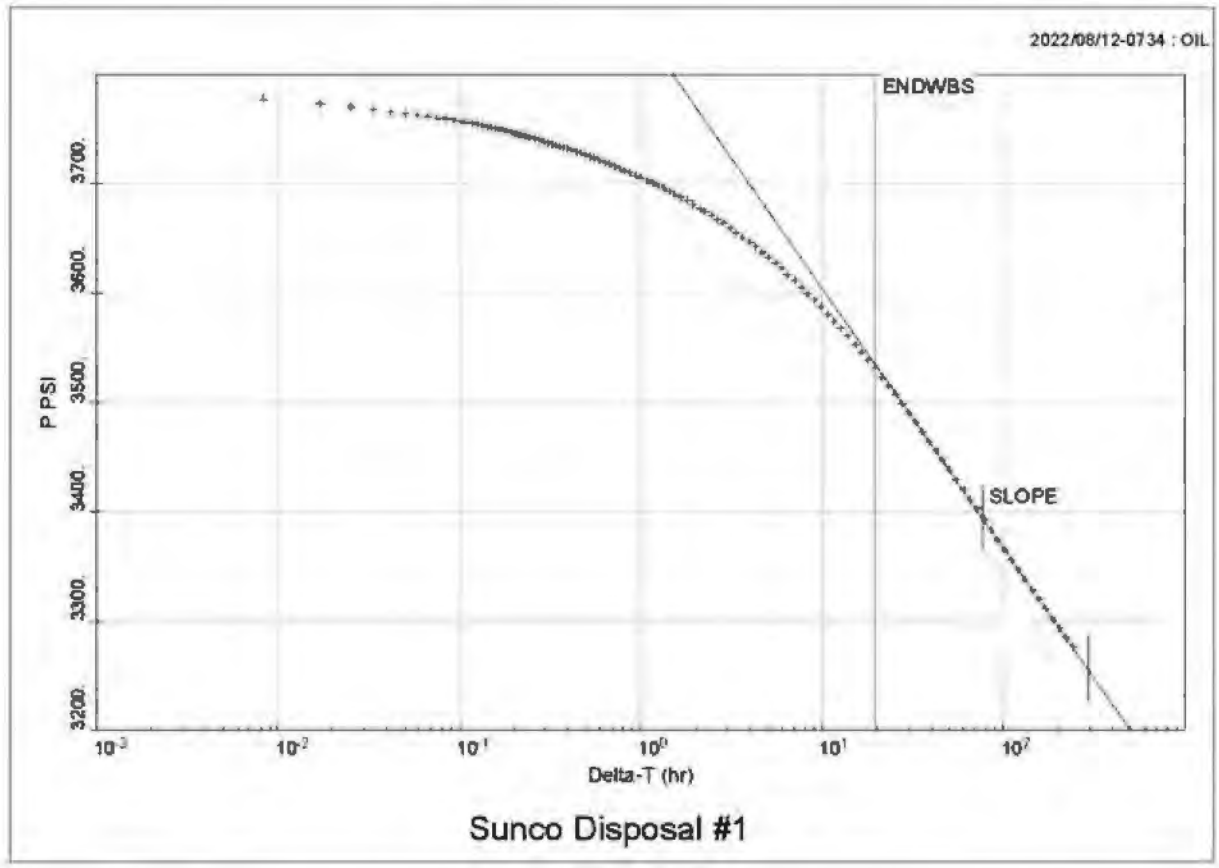
ENLARGED PLOTS:

BOTTOM HOLE GAUGE DERIVATIVE PLOT:



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BOTTOM HOLE GAUGE MDH PLOT:



slope of the line = -237.876 PSI/cycle
extrapolated pressure = 3374.90 PSI
R(inv) at 292.2 hr = 1960. FEET
R(inv) at 76.14 hr = 1000. FEET

prod. time=91.10 hr at rate=-1685.18 STB/D

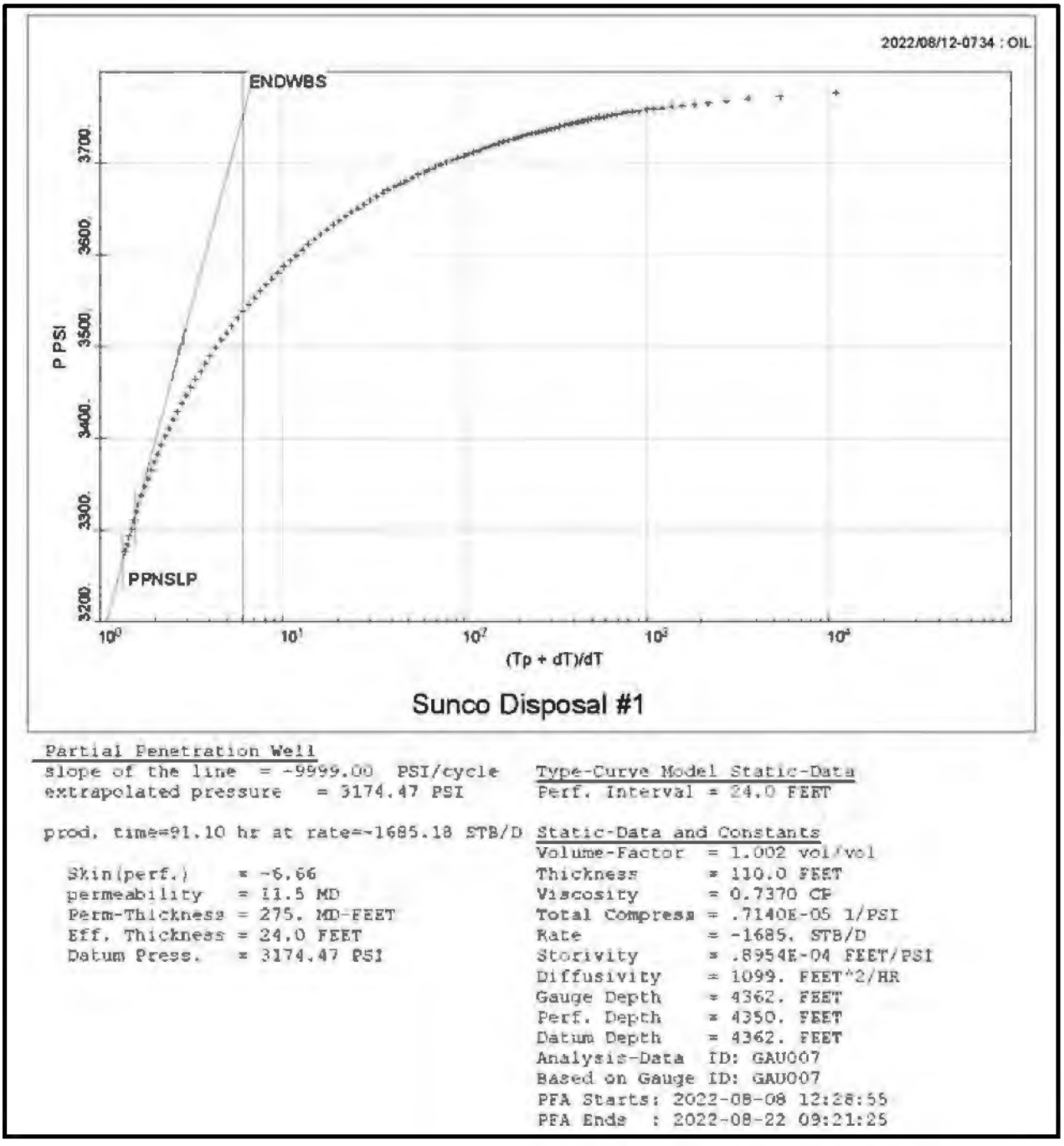
skin = -5.45
permeability = 7.74 MD
Perm-Thickness = 851. MD-FEET
Datum Press. = 3374.90 PSI

Static-Data and Constants

Volume-Factor	= 1.002 vol/vol
Thickness	= 110.0 FEET
Viscosity	= 0.7370 CP
Total Compress	= .7140E-05 1/PSI
Rate	= -1685. STB/D
Storivity	= .8954E-04 FEET/PSI
Diffusivity	= 3400. FEET^2/HR
Gauge Depth	= 4362. FEET
Perf. Depth	= 4350. FEET
Datum Depth	= 4362. FEET
Analysis-Data ID:	GAU007

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BOTTOM HOLE GAUGE HORNER PLOT:



Partial Penetration Well
slope of the line = -9999.00 PSI/cycle
extrapolated pressure = 3174.47 PSI

prod. time=91.10 hr at rate=-1685.18 STB/D

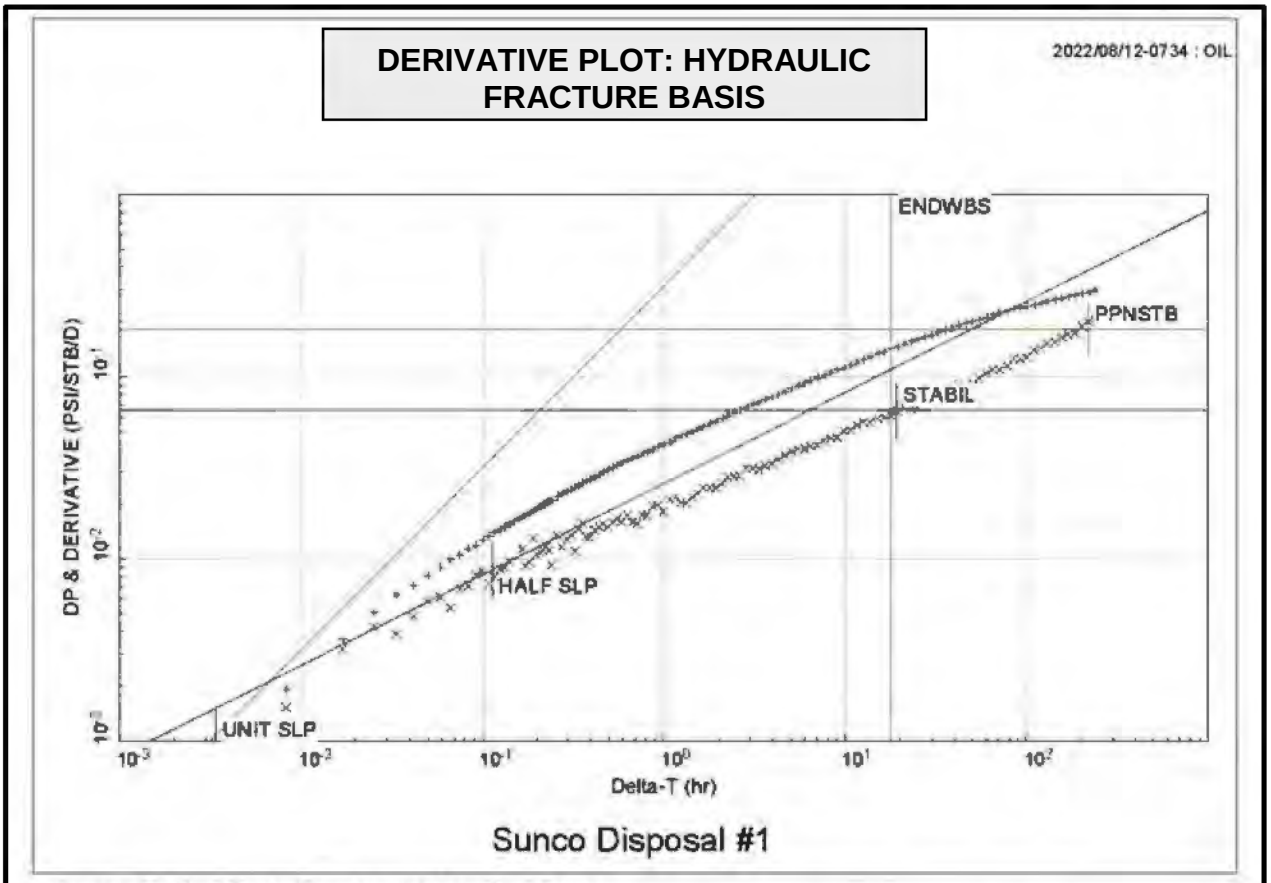
Skin(perf.) = -6.66
permeability = 11.5 MD
Perm-Thickness = 275. MD-FEET
Eff. Thickness = 24.0 FEET
Datum Press. = 3174.47 PSI

Type-Curve Model Static-Data
Perf. Interval = 24.0 FEET

Static-Data and Constants
Volume-Factor = 1.002 vol/vol
Thickness = 110.0 FEET
Viscosity = 0.7370 CP
Total Compress = .7140E-05 1/PSI
Rate = -1685. STB/D
Storivity = .8954E-04 FEET/PSI
Diffusivity = 1099. FEET^2/HR
Gauge Depth = 4362. FEET
Perf. Depth = 4350. FEET
Datum Depth = 4362. FEET
Analysis-Data ID: GAU007
Based on Gauge ID: GAU007
PFA Starts: 2022-08-08 12:28:55
PFA Ends : 2022-08-22 09:21:25

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SURFACE GAUGE PRESSURE (ADJUSTED) DERIVATIVE PLOT:



Partial Penetration Vertical Fracture

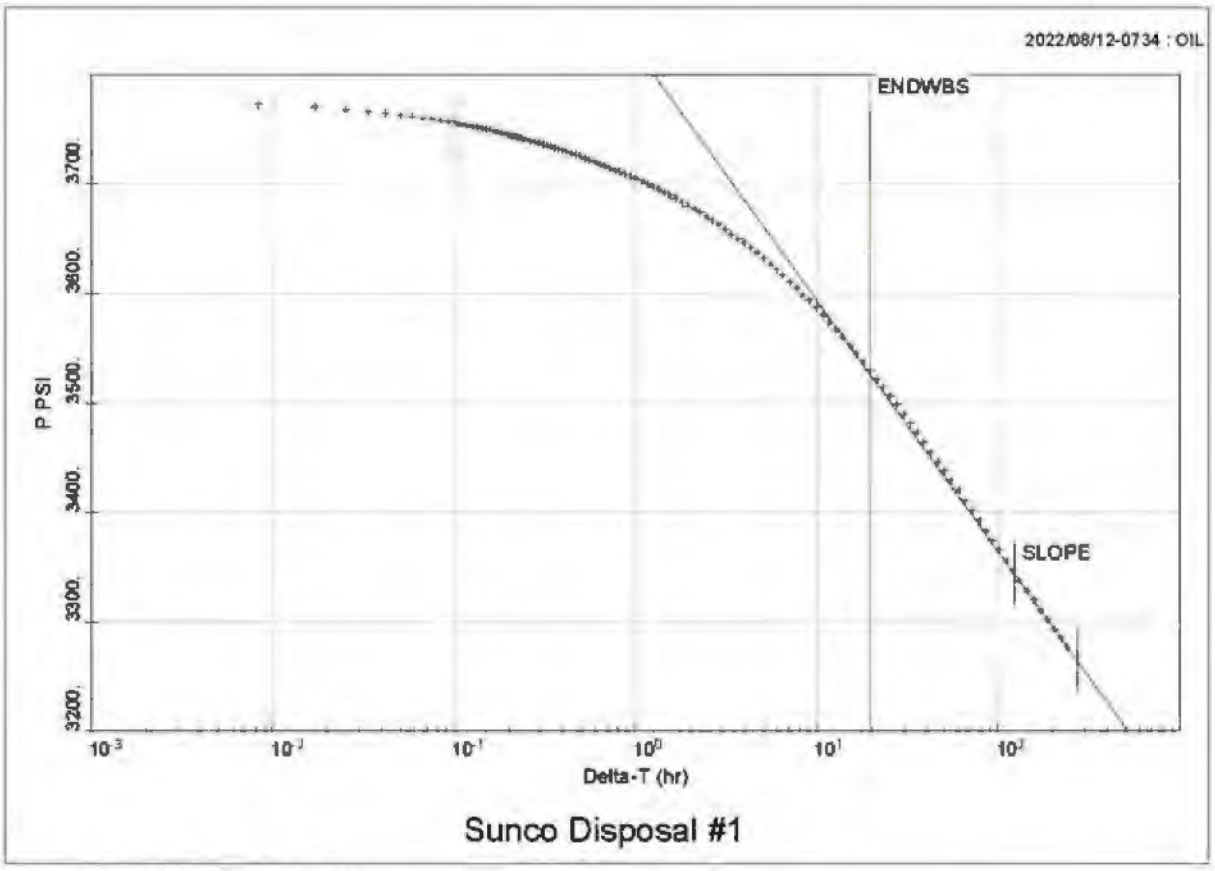
well. storage	= 0.133 BBLS/PSI
skin	= -5.19
permeability	= 7.26 MD
Perm-Thickness	= 798. MD-FEET
Half.Length	= 701. FEET
Hp/Heff	= 0.359
Eff. Thickness	= 110. FEET
P-extrap.	= 3339.38 PSI
R(inv) at 19.15 hr	= 487. FEET
Smoothing Coef	= 0.,0.

Static-Data and Constants

Volume-Factor	= 1.002 vol/vol
Thickness	= 110.0 FEET
Viscosity	= 0.7370 CP
Total Compress	= .7140E-05 1/PSI
Rate	= -1685. STB/D
Storivity	= .8954E-04 FEET/PSI
Diffusivity	= 3191. FEET^2/HR
Gauge Depth	= 4362. FEET
Perf. Depth	= 4350. FEET
Datum Depth	= 4362. FEET
Analysis-Data	ID: GAU010
Based on Gauge	ID: GAU010
PFA Starts:	2022-08-08 12:28:55
PFA Ends	: 2022-08-22 09:01:24

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SURFACE GAUGE PRESSURE (ADJUSTED) MDH PLOT:



Partial Penetration Well
slope of the line = -229.288 PSI/cycle
extrapolated pressure = 3372.41 PSI
R(inv) at 272.0 hr = 1930. FEET
R(inv) at 122.6 hr = 1300. FEET

prod. time=91.10 hr at rate=-1685.18 STB/D

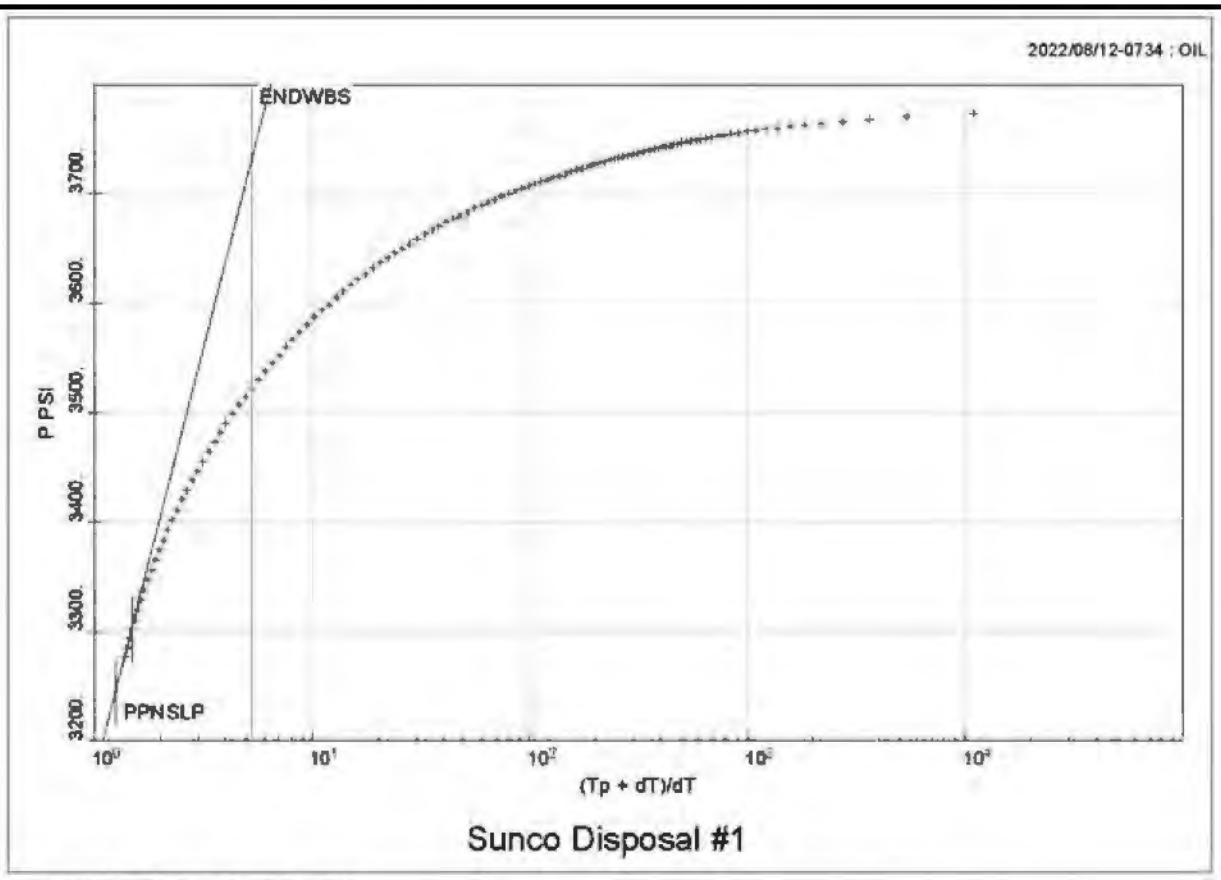
Skin(Global) = -5.40
permeability = 8.03 MD
Perm-Thickness = 883. MD-FEET
Datum Press. = 3372.41 PSI

Type-Curve Model Static-Data
Perf. Interval = 24.0 FEET

Static-Data and Constants
Volume-Factor = 1.002 vol/vol
Thickness = 110.0 FEET
Viscosity = 0.7370 CP
Total Compress = .7140E-05 1/PSI
Rate = -1685. STB/D
Storivity = .8954E-04 FEET/PSI
Diffusivity = 3528. FEET^2/HR
Gauge Depth = 4362. FEET
Perf. Depth = 4350. FEET
Datum Depth = 4362. FEET
Analysis-Data ID: GAU010
Based on Gauge ID: GAU010
PFA Starts: 2022-08-08 12:28:55
PFA Ends : 2022-08-22 09:01:24

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SURFACE GAUGE PRESSURE (ADJUSTED) HORNER PLOT:



Partial Penetration Well
slope of the line = -9999.00 PSI/cycle
extrapolated pressure = 3168.12 PSI

prod. time=91.10 hr at rate=-1685.18 STB/D

Skin(perf.) = -6.68
permeability = 10.8 MD
Perm-Thickness = 259. MD-FEET
Eff. Thickness = 24.0 FEET
Datum Press. = 3168.12 PSI

Type-Curve Model Static-Data
Perf. Interval = 24.0 FEET

Static-Data and Constants
Volume-Factor = 1.002 vol/vol
Thickness = 110.0 FEET
Viscosity = 0.7370 CP
Total Compress = .7140E-05 1/PSI
Rate = -1685. STB/D
Storivity = .8954E-04 FEET/PSI
Diffusivity = 1036. FEET^2/HR
Gauge Depth = 4362. FEET
Perf. Depth = 4350. FEET
Datum Depth = 4362. FEET
Analysis-Data ID: GAU010
Based on Gauge ID: GAU010
PFA Starts: 2022-08-08 12:28:55
PFA Ends : 2022-08-22 09:01:24

Results:

The results from the Horner, MDH, and Derivative pressure plots are summarized in the Table 2 below. The results for the different methods were consistent and the average calculated properties were:

1. P* = 3174 psi
2. K = 9.1 md
3. S = -5.8
4. Radius of Investigation = 1960 feet
5. No indication of boundary

Table 1: Calculated Reservoir Properties

Calculated Reservoir Parameters - Bottom Hole Guage				
	Horner Analysis	MDH Plot	Derivative Plot	Average
Estimated Kw (permeability, mD)	11.5	7.7	8.1	9.1
Estimated skin (dimensionless)	-6.7	-5.5	-5.3	-5.8
Extrapolated pressure (psig)	3,174	3,375	3,361	3,303
Fracture half-length (feet)	--	--	586	586
Radius of investigation (feet)	--	1,960	--	1,960

In addition to the bottom hole gauges, transducers at surface collected pressure. Bottom hole pressures were calculated using a gradient of 0.431 psi/foot and FOT results were calculated from the surface data. The surface data results were similar to the bottom hole gauge data. The results from the Horner, MDH, and Derivative pressure plots are summarized in the Table 2 below. The results for the different methods were consistent and the average calculated properties were:

1. P* = 3168 psi
2. K = 8.7 md
3. S = -5.8
4. Radius of Investigation = 1930 feet
5. No indication of boundary

Table 2: Calculated Reservoir Properties Surface Gauges

Calculated Reservoir Parameters - Gauge (Adjusted to BH Datum)				
	Horner Analysis	MDH Plot	Derivative Plot	Average
Estimated Kw (permeability, mD)	10.8	8.0	7.3	8.7
Estimated skin (dimensionless)	-6.7	-5.4	-5.4	-5.8
Extrapolated pressure (psig)	3,168	3,372	3,339	3,293
Fracture half-length (feet)	--	--	701	701
Radius of investigation (feet)	--	1,930	--	1,930

Comparison with past Falloff Tests:

The results from the 2022 Falloff Test were compiled with previous RPE and FOT results from the facility and are shown below in Table 3.

Table 3: Results Comparison

	2022	2021	2020	2019	2018	2017	2016	2015	2010	2009	2008	2007
Rate (bbl/day)	**1684**				3292	3150	3132	3340	4500			
P* (psi)	**3263**	3194*	2968*	2939*	3479	3273	3114	3283	3231	3242	3176	3258
K (md)	**9.1**				10.8	10.4	11.5	15.8	13.6	10.2	20.7	
S	**-5.8**				-6.0	-6.0	-5.93	-5.97	-7.18	-7.23	-6.79	
Radius of Inv (ft)	**1960**				1690	1790	1430	1580	1450	1250	1750	1620
Frac ½ Length (ft)	**586**				598	517	594	467	893	926	596	688
Boundary	**none**				none	none	none	none	648, 1520	755	987	none

Agua Moss did not conduct tests prior to 2015 and is relying on the 2010 report submitted by Key Energy, the past operator, for those results. The following observations were derived from a comparison of the results:

1. The radius of investigation for 2022 was adequate enough to see out beyond all of the previously seen boundaries.
   Note: On 2010 results seems peculiar to have a boundary beyond the Radius of Investigation.
2. The parameters calculated compare well enough with previous FOT parameter to validate the 2022 FOT results.

The raw test data obtain during the 2022 FOT will be kept on file for a period of three (3) years and will be available upon request.

---

* The pressure shown for 2021 through 2019 is a bottom hole pressure calculated based on surface pressure and a fluid gradient. This pressure is being compared to the extrapolated reservoir pressures from previously completed Falloff Test. The comparison is being used to gauge the current condition of the injection interval to ensure the interval is suitable for continued injection operations.

Conclusions:

Based on the above analysis and results comparison, Agua Moss believes the Sunco SWD #1 2022 FOT was successfully completed. The results do not show indications of concern in continuing the current waste injection operations. In addition, the comparison of results between bottom hole gauges and surface gauges indicate that surface gauges provide a similar result.

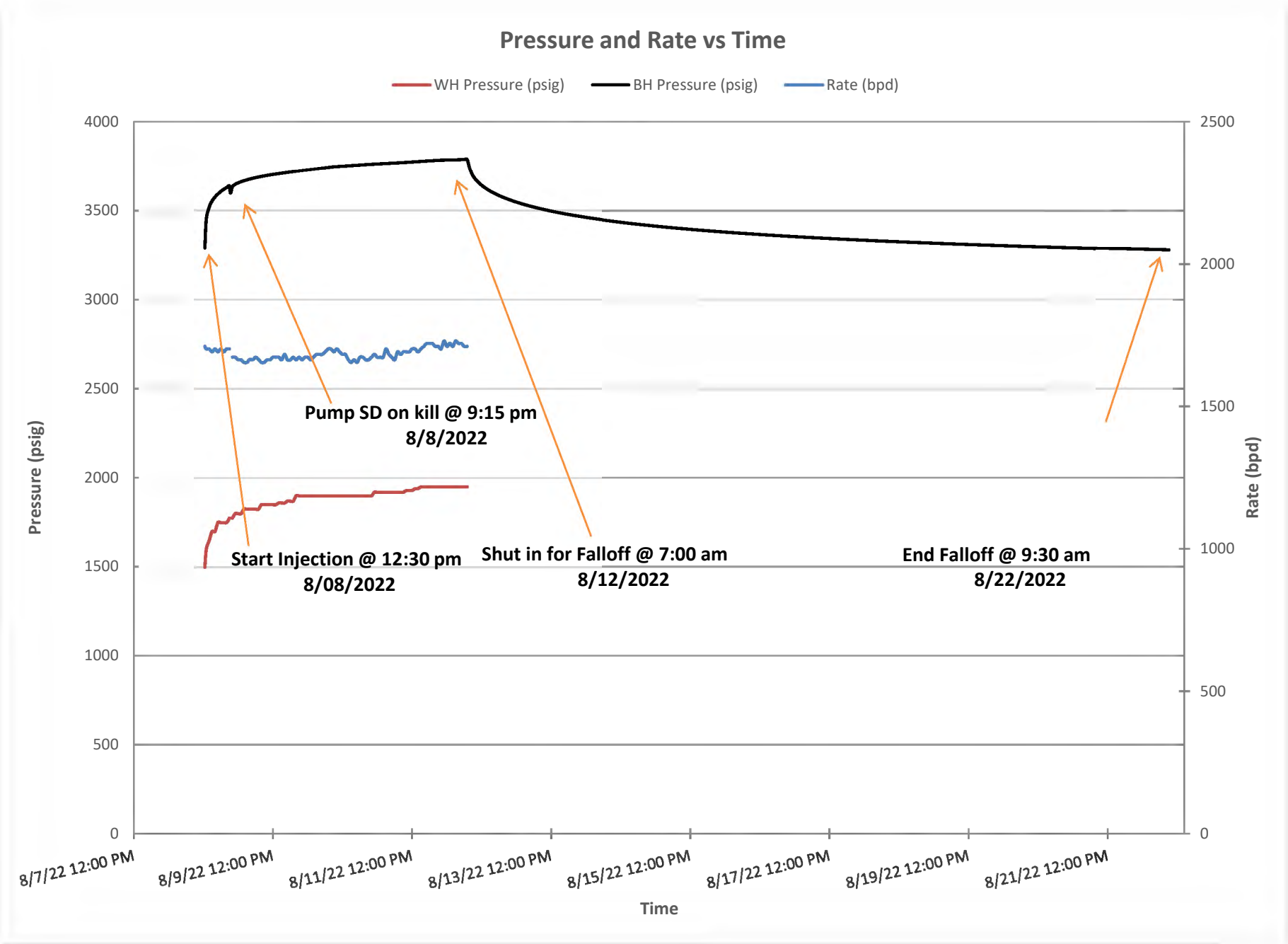


Figure 3 Pressure and Rate vs Time

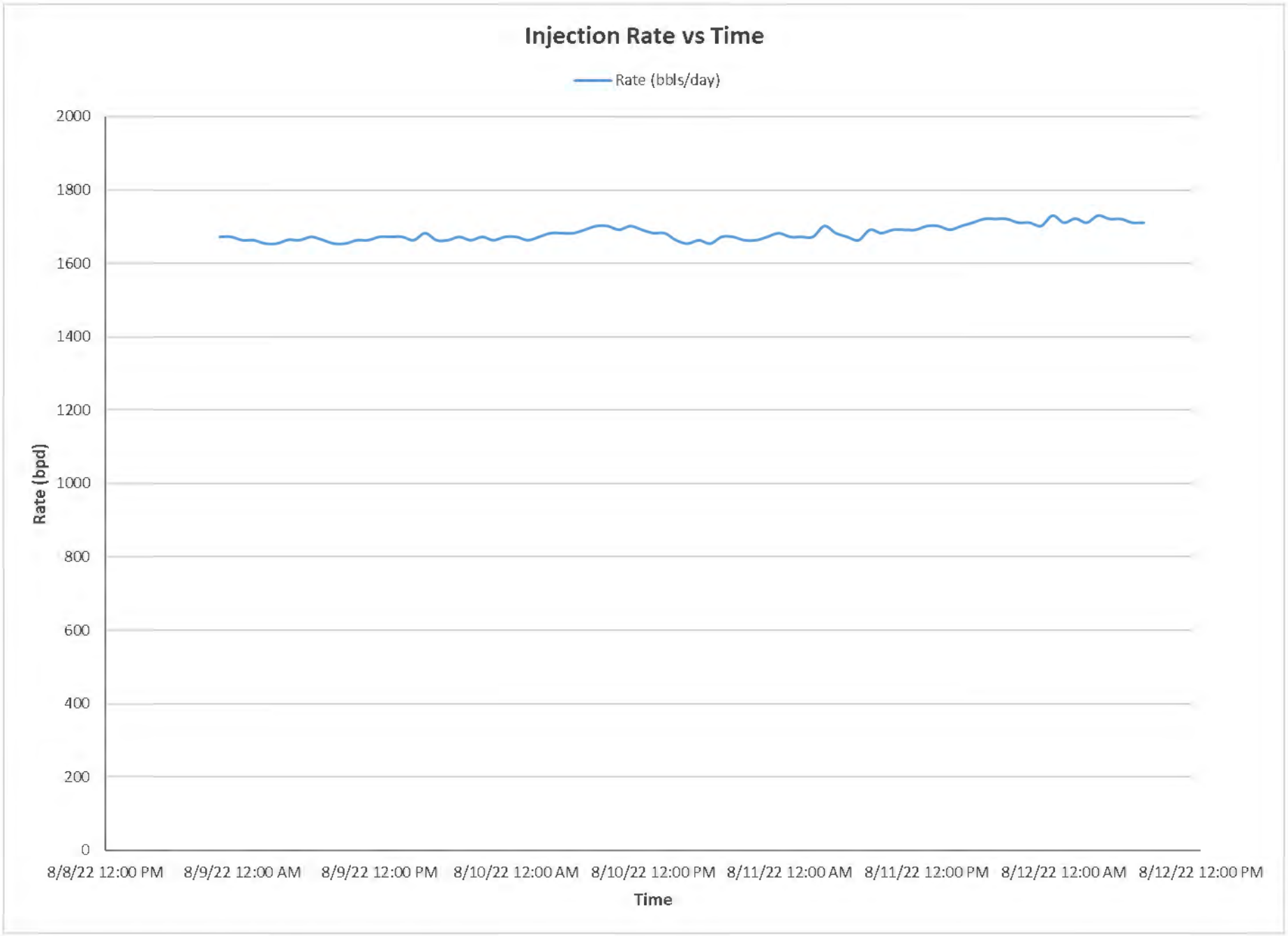


Figure 4 Injection Rate vs Time

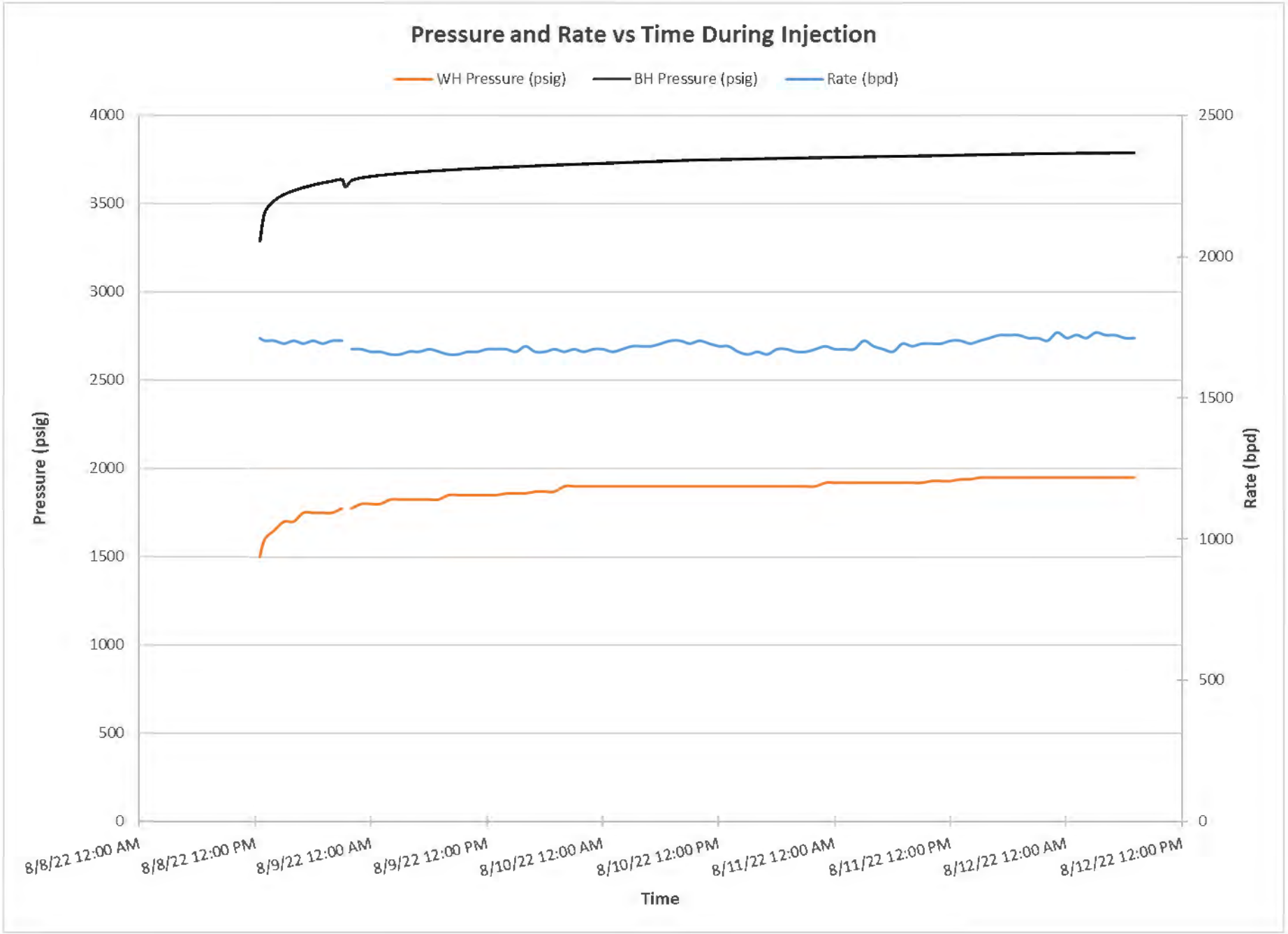


Figure 5 Pressure and Rate vs Time During Injection

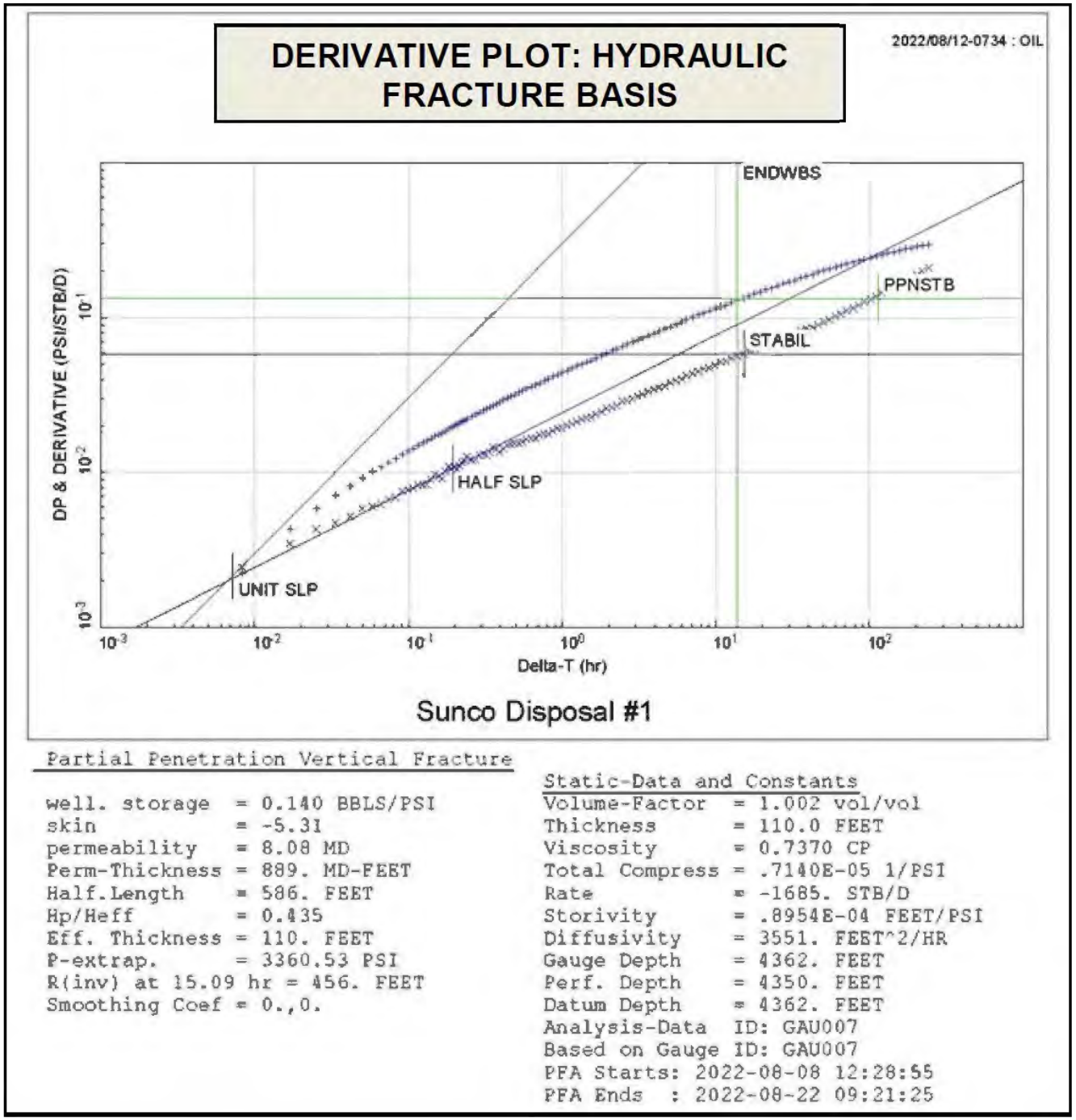


Figure 6 Derivative Plot

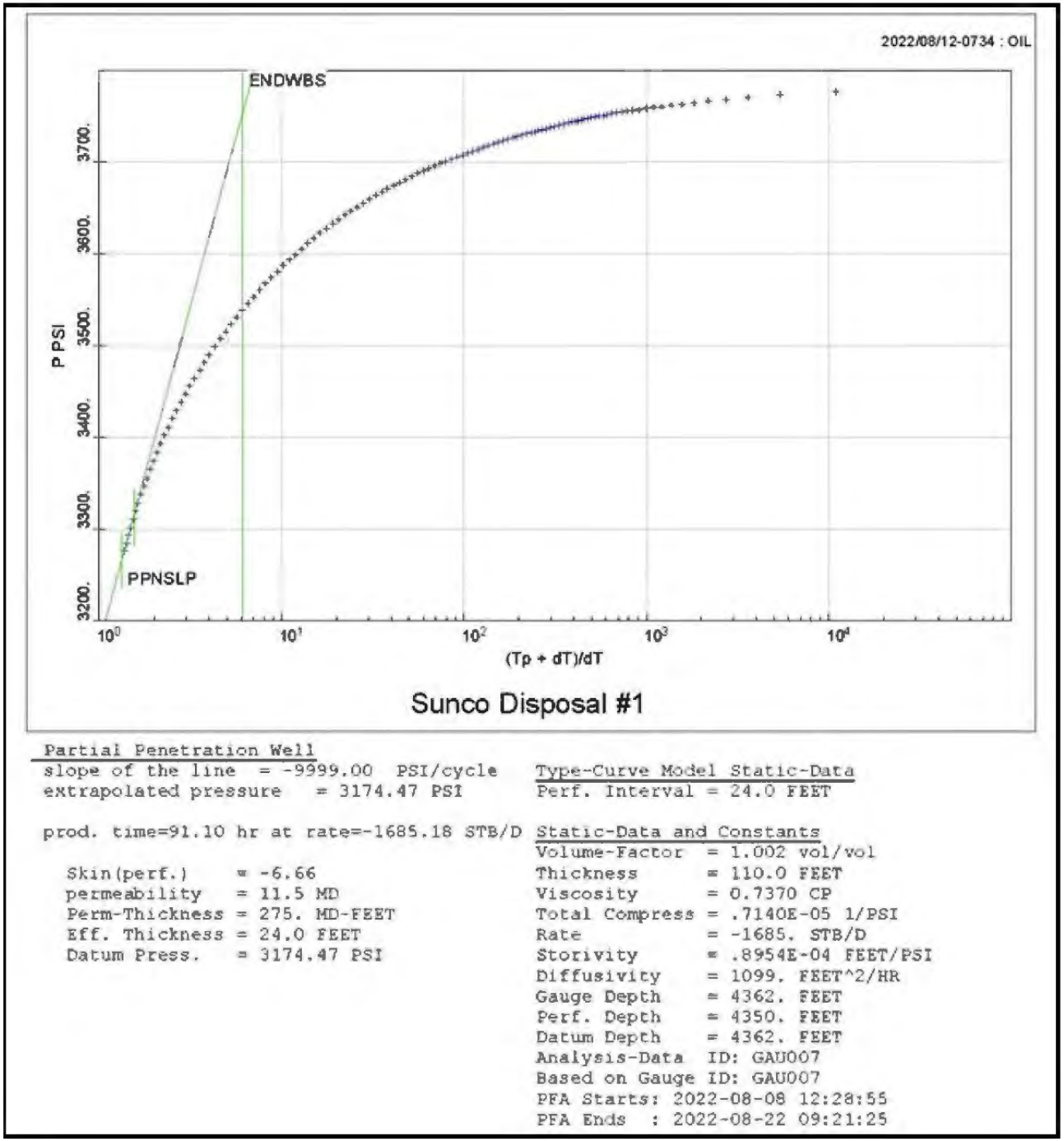


Figure 7 Horner Plot

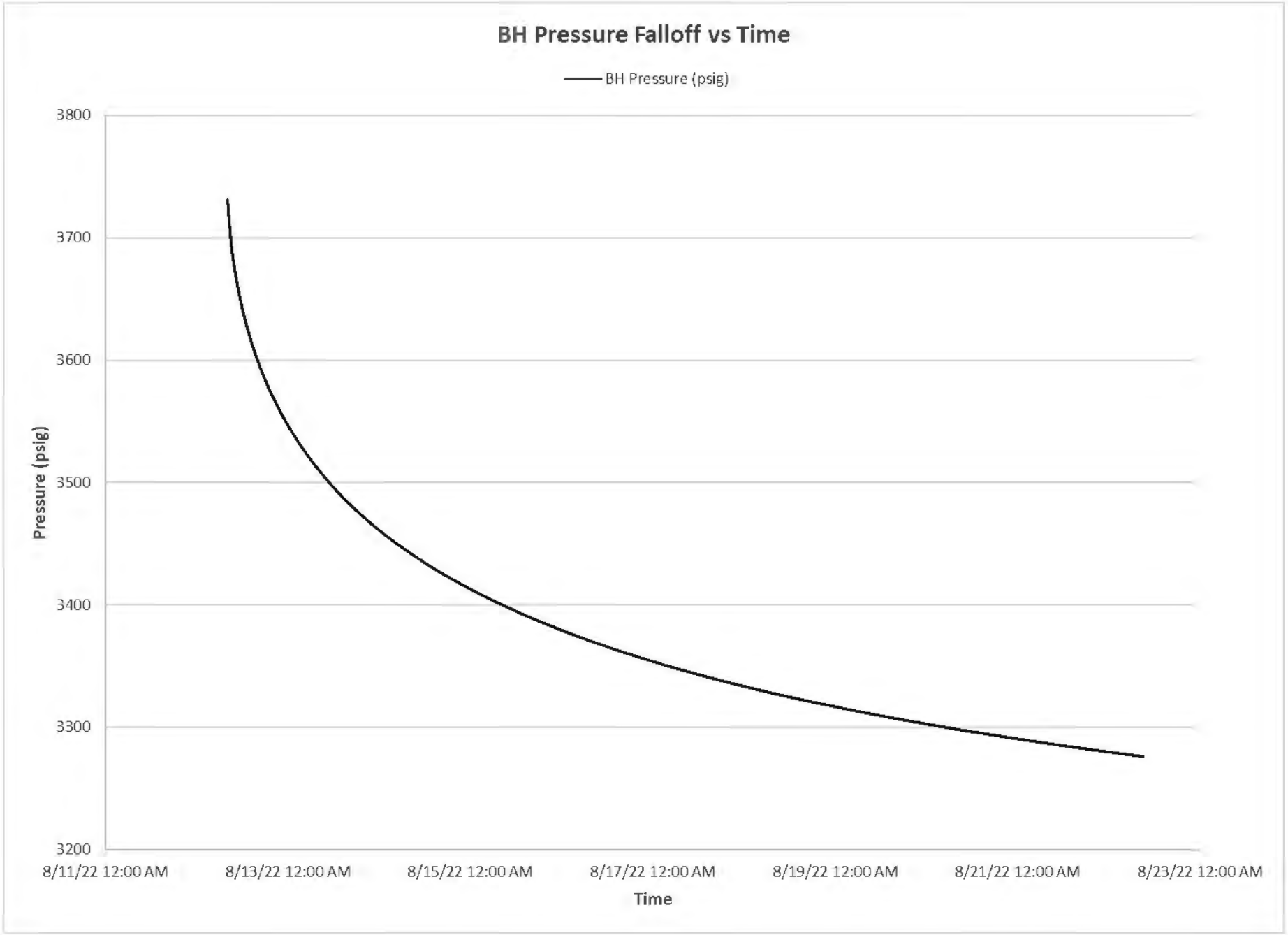


Figure 8 BH Pressure Falloff vs Elapsed Time

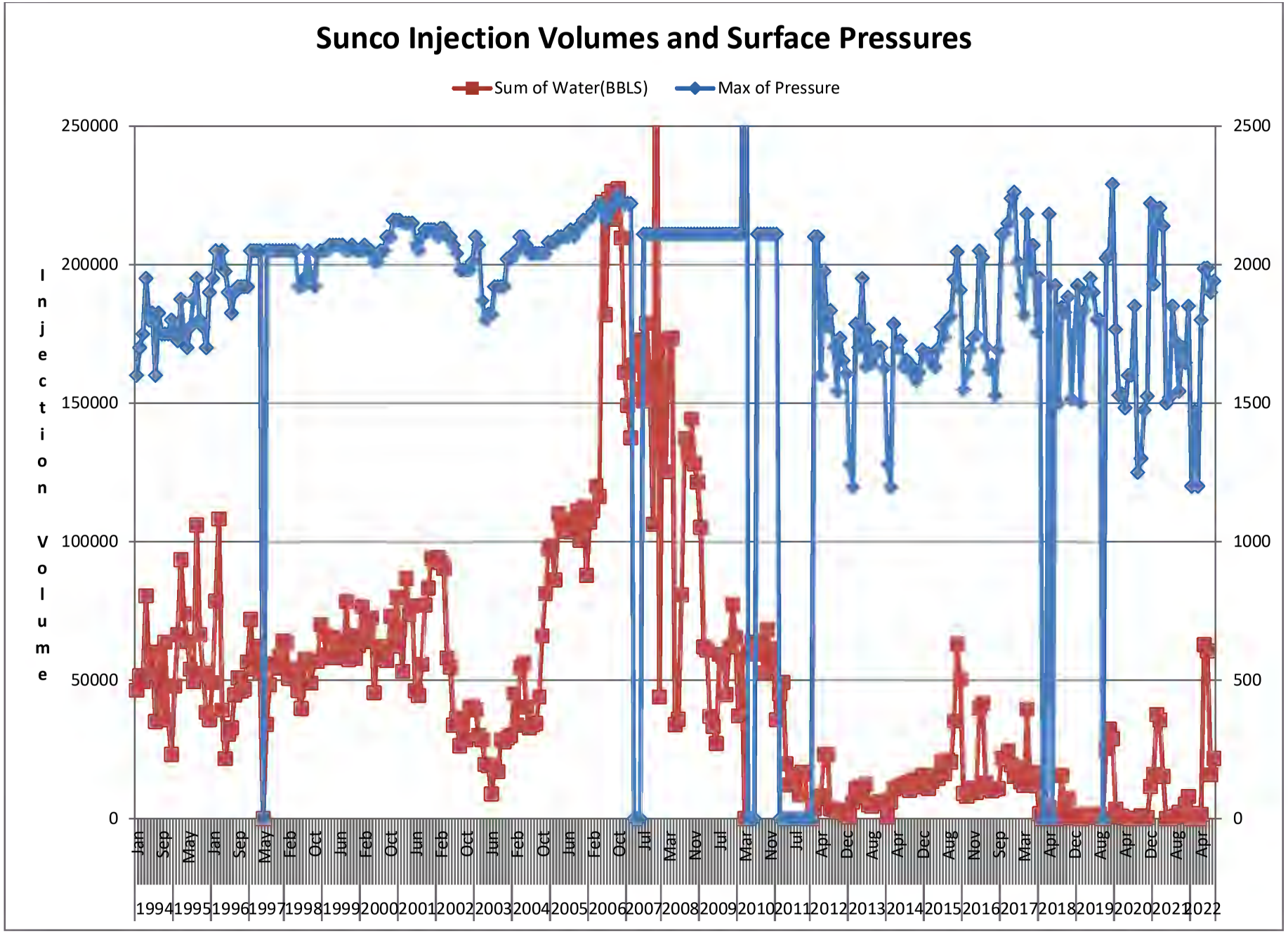
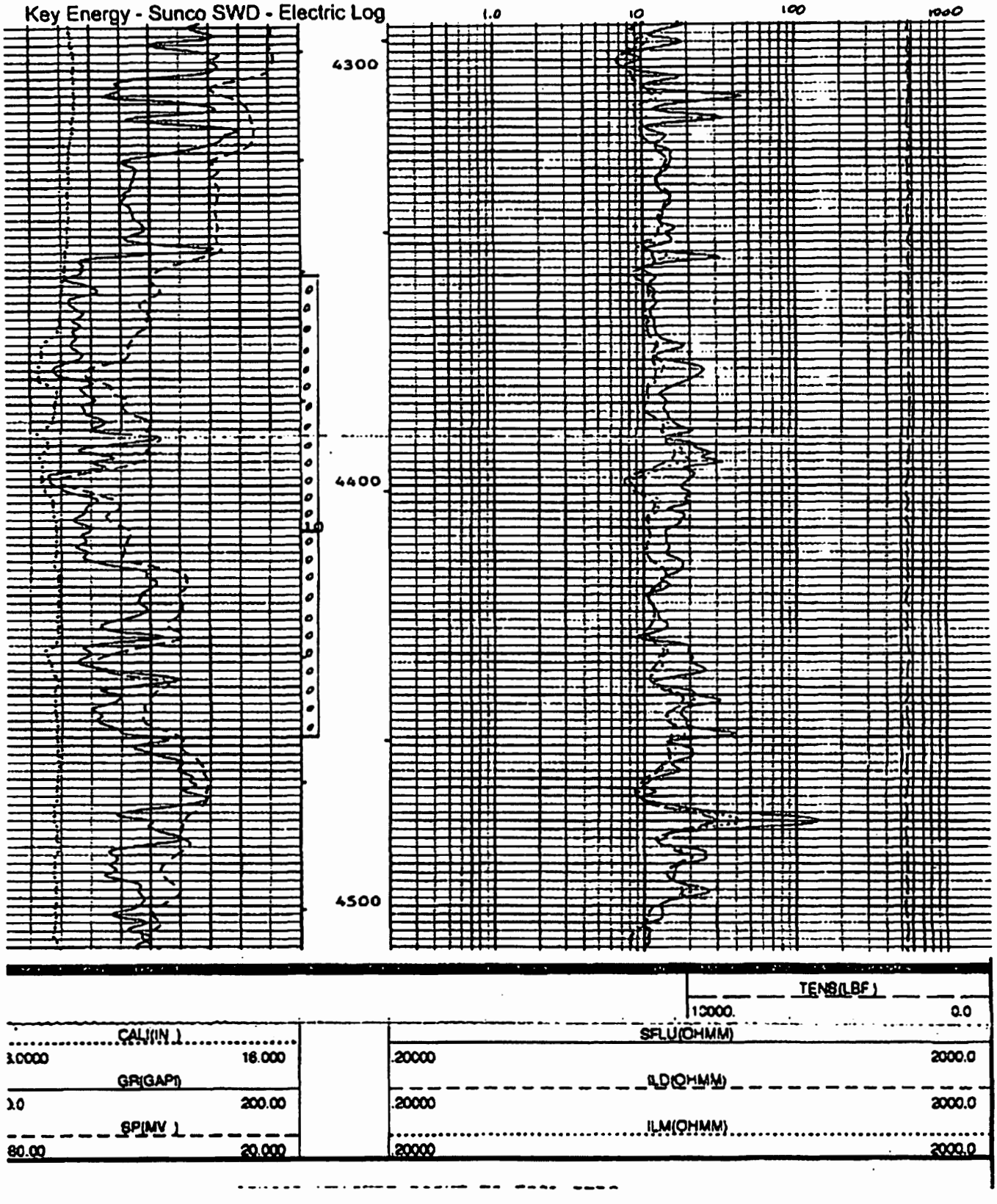
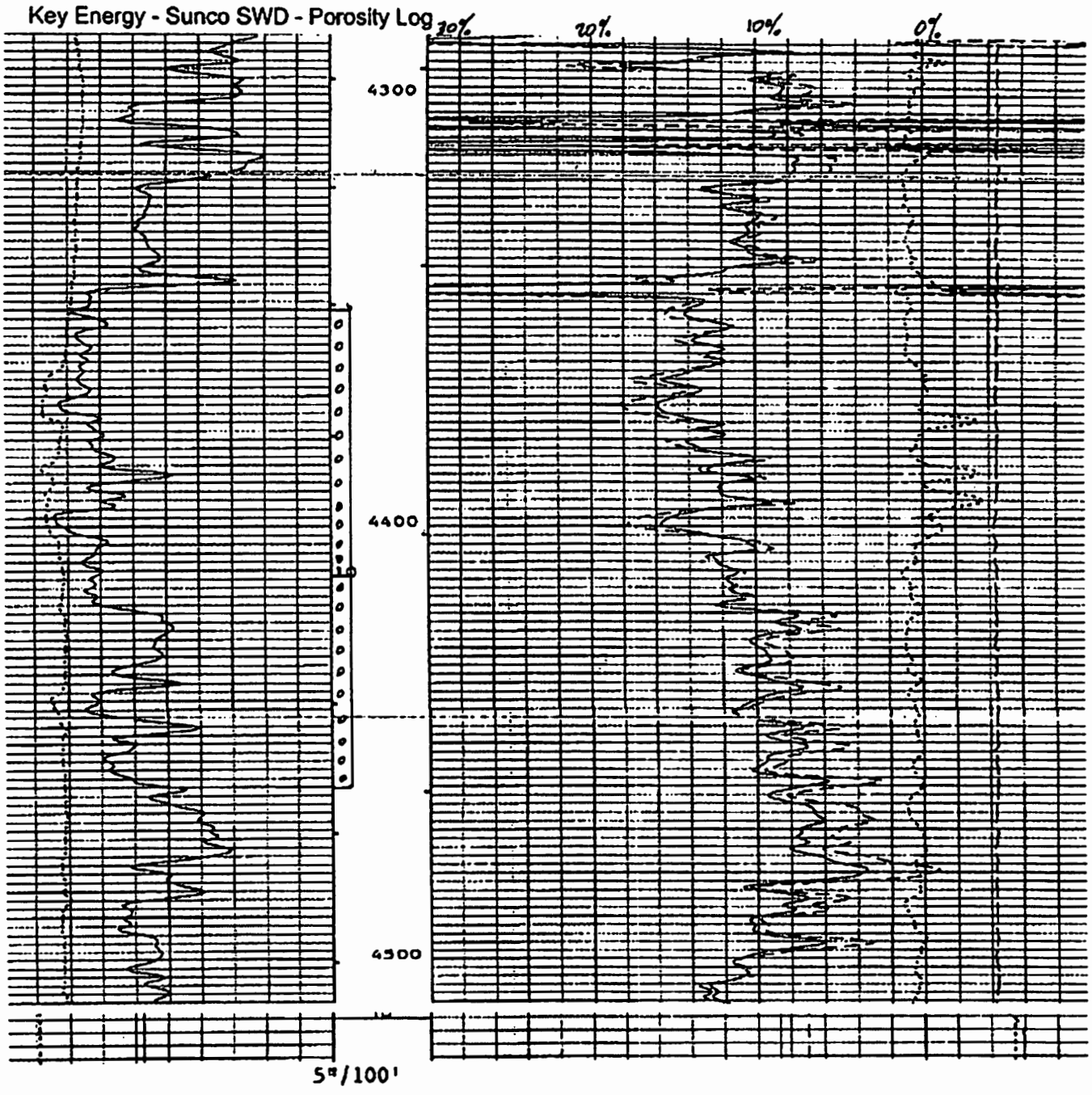
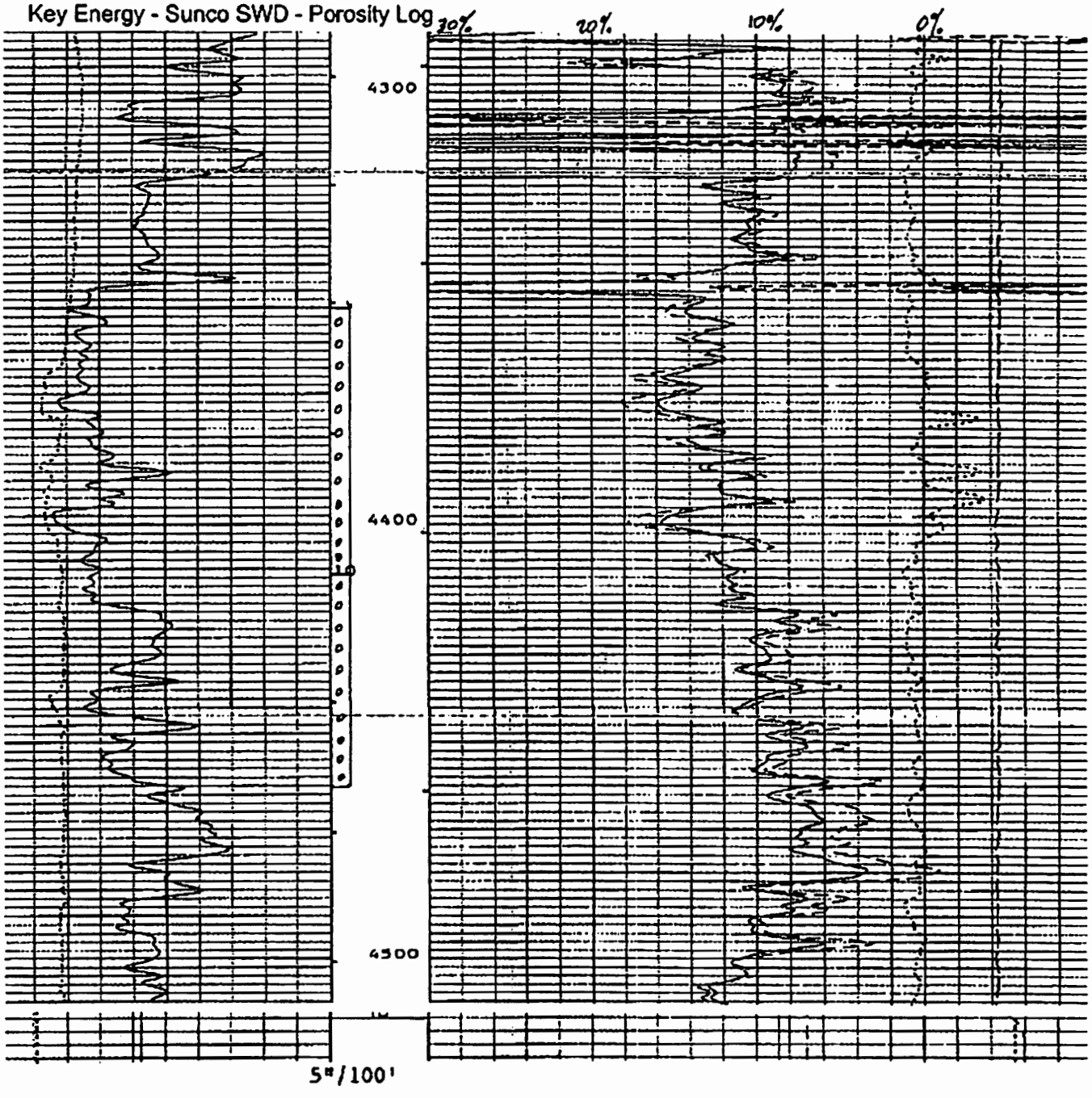


Figure 9 Injection and Pressure Plot


Key Energy - Sunco SWD - Electric Log
1.0
10
100
1000
4300
4400
4500
TENS(LBF)
10000.
0.0
CALI(IN)
16.000
SFLU(OHMM)
2000.0
GR(GAPI)
200.00
ILD(OHMM)
2000.0
SP(MV)
20.000
ILM(OHMM)
2000.0


Key Energy - Sunco SWD - Porosity Log
30%
20%
10%
0%
4300
4400
4500
5"/100'
CP 32.6
FILE 6
01-FEB-1992 20:21
(UP)
DRHO(G/C3)
-.2500
.25000
TENS(LBF)
10000.
0.0
CALI(IN)
8.0000
16.000
RHOB(G/C3)
2.0000
3.0000
GR(GAPI)
0.0
200.00
DPHI(V/V)
.30000
-.1000


Key Energy - Sunco SWD - Porosity Log
30%
20%
10%
0%
4300
4400
4500
5"/100'
CP 32.6
FILE 6
01-FEB-1992 20:21
(UP)
DRHO(G/C3)
-.2500
.25000
TENS(LBF)
10000.
0.0
CALI(IN)
8.0000
16.000
RHOB(G/C3)
2.0000
3.0000
GR(GAPI)
0.0
200.00
DPHI(V/V)
.30000
-.1000

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

2022

Quarterly
Injection Report

	Average Pressure (psig)	Maximum Pressure (psig)	Minimum Pressure (psig)	Average Flow (gpm)	Maxium Flow (gpm)	Minimum Flow (gpm)	Average Annular Pressure (psig)	Maximum Annular Pressure (psig)	Minimum Annular Pressure (psig)	Average Volume (bpd)	Maximum Volume (bpd)	Minimum Volume (bpd)	Volume (barrels)	Total Cumulative Volume (barrels)	
													Previous year	15182756	
Jan-2022	1200	1200	1200	0	0	0	0	0	0	0	0	0	0	15182756	
Feb-2022	1280	1800	1150	17.80138889	24.2375	11.1416667	0	0	0	610.3333333	831	382	1831	15184587	
Mar-2022	1200	1200	1200	0	0	0	0	0	0	0	0	0	0	15184587	
													Previous Quarter	15184587	
Apr-2022	1050	1050	1050	15.05972222	22.86666667	10.4125	0	0	0	516.3333333	784	357	1549	15186136	
May-2022	1815.179	2000	1150	65.41979167	125.2708333	33.2791667	0	0	0	2242.964286	4295	1141	62803	15248939	
Jun-2022	1800	1950	1250	58.84180556	84.175	20.825	0	0	0	2017.433333	2886	714	60523	15309462	
													Previous Quarter	15309462	
Jul-22	1836.538	2000	1450	57.85208333	69.0375	43.6333333	0	0	0	1983.5	2367	1496	15868	15325330	
Aug-22	1870	2250	1350	45.4125	71.05	15.6333333	0	0	0	1557	2436	536	21798	15347128	
Sep-22	#DIV/0!	0	0	0	0	0	0	0	0	#DIV/0!	0	0	0	15347128	
													Previous Quarter	15347128	
Oct-2022	#DIV/0!	0	0	0	0	0	0	0	0	#DIV/0!	0	0	0	15347128	
Nov-2022	#DIV/0!	0	0	0	0	0	0	0	0	#DIV/0!	0	0	0	15347128	
Dec-2022	#DIV/0!	0	0	0	0	0	0	0	0	#DIV/0!	0	0	0	15347128	
												Total for year	164372	15511500	Life Of well injected

	WH	AP
1/1/22		
1/2/22		
1/3/22		
1/4/22		
1/5/22		
1/6/22		
1/7/22		
1/8/22		
1/9/22		
1/10/22		
1/11/22		
1/12/22	1200	
1/13/22		
1/14/22		
1/15/22		
1/16/22		
1/17/22		
1/18/22		
1/19/22	1200	
1/20/22		
1/21/22	1200	
1/22/22		
1/23/22		
1/24/22		
1/25/22		
1/26/22	1200	
1/27/22	1200	
1/28/22		
1/29/22		
1/30/22		
1/31/22		
	1200	0 AVG
	1200	0 MIN
	1200	0 MAX

	WH	AP
2/1/22		
2/2/22		
2/3/22	1150	
2/4/22		
2/5/22		
2/6/22		
2/7/22		
2/8/22	1150	
2/9/22		
2/10/22		
2/11/22		
2/12/22		
2/13/22		
2/14/22		
2/15/22		
2/16/22		
2/17/22		
2/18/22		
2/19/22		
2/20/22		
2/21/22	1150	
2/22/22	1150	
2/23/22		
2/24/22		
2/25/22		
2/26/22		
2/27/22		
2/28/22	1800	
	1280	0 AVG
	1150	0 MIN
	1800	0 MAX

	WH	AP
3/1/22	1200	
3/2/22		
3/3/22		
3/4/22		
3/5/22		
3/6/22		
3/7/22	1200	
3/8/22		
3/9/22		
3/10/22		
3/11/22		
3/12/22		
3/13/22		
3/14/22		
3/15/22		
3/16/22	1200	
3/17/22		
3/18/22		
3/19/22		
3/20/22		
3/21/22		
3/22/22		
3/23/22		
3/24/22		
3/25/22		
3/26/22		
3/27/22		
3/28/22		
3/29/22		
3/30/22		
3/31/22		
	1200	0 AVG
	1200	0 MIN
	1200	0 MAX

	WH	AP
4/1/22		
4/2/22		
4/3/22		
4/4/22		
4/5/22		
4/6/22		
4/7/22	1050	
4/8/22		
4/9/22		
4/10/22		
4/11/22		
4/12/22	1050	
4/13/22		
4/14/22		
4/15/22		
4/16/22		
4/17/22		
4/18/22		
4/19/22		
4/20/22		
4/21/22		
4/22/22		
4/23/22		
4/24/22		
4/25/22	1050	
4/26/22	1050	
4/27/22	1050	
4/28/22	1050	
4/29/22		
4/30/22		
	1050	0 AVG
	1050	0 MIN
	1050	0 MAX

	WH	AP
5/1/22		
5/2/22		
5/3/22	1150	
5/4/22	1350	
5/5/22	1450	
5/6/22	1550	
5/7/22		
5/8/22	1500	
5/9/22	1850	
5/10/22	1850	
5/11/22	1900	
5/12/22	1900	
5/13/22	1900	
5/14/22	1900	
5/15/22	2000	
5/16/22	1950	
5/17/22	1950	
5/18/22	2000	
5/19/22	2000	
5/20/22	2000	
5/21/22	1975	
5/22/22	1750	
5/23/22	1750	
5/24/22	1950	
5/25/22	1950	
5/26/22	1950	
5/27/22	1750	
5/28/22	1900	
5/29/22	1750	
5/30/22	1950	
5/31/22	1950	
	1815.179	0 AVG
	1150	0 MIN
	2000	0 MAX

	WH	AP
6/1/22	1950	
6/2/22	1950	
6/3/22	1750	
6/4/22	1950	
6/5/22	1250	
6/6/22	1800	
6/7/22	1750	
6/8/22	1750	
6/9/22	1950	
6/10/22	1950	
6/11/22	1950	
6/12/22	1750	
6/13/22	1750	
6/14/22	1750	
6/15/22	1950	
6/16/22	1900	
6/17/22	1750	
6/18/22	1700	
6/19/22	1900	
6/20/22	1700	
6/21/22	1800	
6/22/22	1900	
6/23/22	1750	
6/24/22	1700	
6/25/22	1800	
6/26/22	1700	
6/27/22	1700	
6/28/22	1700	
6/29/22	1900	
6/30/22	1900	
	1800	0 AVG
	1250	0 MIN
	1950	0 MAX

	WH	AP
7/1/22	1900	
7/2/22	1950	
7/3/22	1800	
7/4/22	2000	
7/5/22	1900	
7/6/22	1950	
7/7/22	2000	
7/8/22	1900	
7/9/22	1700	
7/10/22		
7/11/22		
7/12/22	1525	
7/13/22		
7/14/22		
7/15/22		
7/16/22		
7/17/22		
7/18/22		
7/19/22		
7/20/22	1450	
7/21/22		
7/22/22		
7/23/22		
7/24/22		
7/25/22		
7/26/22		
7/27/22	1900	
7/28/22	1900	
7/29/22		
7/30/22		
7/31/22		
	1836.538	0 AVG
	1450	0 MIN
	2000	0 MAX

	WH	AP
8/1/22		
8/2/22		
8/3/22		
8/4/22		
8/5/22	1350	
8/6/22		
8/7/22		
8/8/22	1800	
8/9/22	1900	
8/10/22	1920	
8/11/22	1950	
8/12/22	1950	
8/13/22		
8/14/22		
8/15/22		
8/16/22		
8/17/22	1400	
8/18/22		
8/19/22		
8/20/22		
8/21/22		
8/22/22	1750	
8/23/22	1950	
8/24/22	1850	
8/25/22	1950	
8/26/22	2100	
8/27/22	1900	
8/28/22		
8/29/22	2000	
8/30/22	2250	
8/31/22	1900	
	1870	0 AVG
	1350	0 MIN
	2250	0 MAX

	WH	AP
9/1/22		
9/2/22		
9/3/22		
9/4/22		
9/5/22		
9/6/22		
9/7/22		
9/8/22		
9/9/22		
9/10/22		
9/11/22		
9/12/22		
9/13/22		
9/14/22		
9/15/22		
9/16/22		
9/17/22		
9/18/22		
9/19/22		
9/20/22		
9/21/22		
9/22/22		
9/23/22		
9/24/22		
9/25/22		
9/26/22		
9/27/22		
9/28/22		
9/29/22		
9/30/22		
	#DIV/0!	0 AVG
	0	0 MIN
	0	0 MAX

	WH	AP
10/1/22		
10/2/22		
10/3/22		
10/4/22		
10/5/22		
10/6/22		
10/7/22		
10/8/22		
10/9/22		
10/10/22		
10/11/22		
10/12/22		
10/13/22		
10/14/22		
10/15/22		
10/16/22		
10/17/22		
10/18/22		
10/19/22		
10/20/22		
10/21/22		
10/22/22		
10/23/22		
10/24/22		
10/25/22		
10/26/22		
10/27/22		
10/28/22		
10/29/22		
10/30/22		
10/31/22		
	#DIV/0!	0 AVG
	0	0 MIN
	0	0 MAX

	WH	AP
11/1/22		
11/2/22		
11/3/22		
11/4/22		
11/5/22		
11/6/22		
11/7/22		
11/8/22		
11/9/22		
11/10/22		
11/11/22		
11/12/22		
11/13/22		
11/14/22		
11/15/22		
11/16/22		
11/17/22		
11/18/22		
11/19/22		
11/20/22		
11/21/22		
11/22/22		
11/23/22		
11/24/22		
11/25/22		
11/26/22		
11/27/22		
11/28/22		
11/29/22		
11/30/22		
	#DIV/0!	0 AVG
	0	0 MIN
	0	0 MAX

	WH	AP
12/1/22		
12/2/22		
12/3/22		
12/4/22		
12/5/22		
12/6/22		
12/7/22		
12/8/22		
12/9/22		
12/10/22		
12/11/22		
12/12/22		
12/13/22		
12/14/22		
12/15/22		
12/16/22		
12/17/22		
12/18/22		
12/19/22		
12/20/22		
12/21/22		
12/22/22		
12/23/22		
12/24/22		
12/25/22		
12/26/22		
12/27/22		
12/28/22		
12/29/22		
12/30/22		
12/31/22		
	#DIV/0!	0 AVG
	0	0 MIN
	0	0 MAX

Total Injected	Avg Vol	Avg Flow		Avg Vol	Avg Flow		Avg Vol	Avg Flow		Avg Vol	Avg Flow		Avg Vol	Avg Flow		Avg Vol	Avg Flow		Avg Vol	Avg Flow		Avg Vol	Avg Flow		Avg Vol	Avg Flow		Avg Vol	Avg Flow
1/1/22	0		2/1/22			3/1/22	0	0	4/1/2022			5/1/2022			6/1/2022	2587	75.45416667	7/1/2022	2176	63.46666667	8/1/2022			9/1/2022		0	10/1/2022		0	11/1/2022			12/1/2022		0
1/2/22			2/2/22			3/2/22			4/2/2022			5/2/2022			6/2/2022	1912	55.76666667	7/2/2022	1987	57.95416667	8/2/2022			9/2/2022			10/2/2022			11/2/2022		0	12/2/2022		0
1/3/22			2/3/22	382	11.14166667	3/3/22			4/3/2022			5/3/2022	1522	44.39166667	6/3/2022	1573	45.87916667	7/3/2022	1496	43.63333333	8/3/2022			9/3/2022			10/3/2022			11/3/2022		0	12/3/2022		0
1/4/22			2/4/22			3/4/22			4/4/2022			5/4/2022	1141	33.27916667	6/4/2022	1865	54.39583333	7/4/2022	1718	50.10833333	8/4/2022			9/4/2022			10/4/2022			11/4/2022			12/4/2022		0
1/5/22			2/5/22			3/5/22			4/5/2022			5/5/2022	2248	65.56666667	6/5/2022	714	20.825	7/5/2022	2295	66.9375	8/5/2022			9/5/2022			10/5/2022			11/5/2022			12/5/2022		
1/6/22			2/6/22			3/6/22			4/6/2022			5/6/2022	2850	83.125	6/6/2022	1761	51.3625	7/6/2022	1936	56.46666667	8/6/2022			9/6/2022			10/6/2022			11/6/2022			12/6/2022		0
1/7/22			2/7/22			3/7/22			4/7/2022			5/7/2022			6/7/2022	2046	59.675	7/7/2022	2367	69.0375	8/7/2022			9/7/2022		0	10/7/2022			11/7/2022			12/7/2022		0
1/8/22			2/8/22			3/8/22			4/8/2022			5/8/2022	2240	65.33333333	6/8/2022	1745	50.89583333	7/8/2022	1893	55.2125	8/8/2022	817	23.82916667	9/8/2022			10/8/2022			11/8/2022			12/8/2022		0
1/9/22			2/9/22			3/9/22			4/9/2022			5/9/2022	1277	37.24583333	6/9/2022	2030	59.20833333	7/9/2022			8/9/2022	1641	47.8625	9/9/2022			10/9/2022			11/9/2022			12/9/2022		
1/10/22			2/10/22			3/10/22			4/10/2022			5/10/2022	1200	35	6/10/2022	2480	72.33333333	7/10/2022			8/10/2022	1711	49.90416667	9/10/2022			10/10/2022			11/10/2022			12/10/2022		
1/11/22			2/11/22			3/11/22			4/11/2022			5/11/2022	4295	125.2708333	6/11/2022	2627	76.62083333	7/11/2022			8/11/2022	1693	49.37916667	9/11/2022			10/11/2022			11/11/2022			12/11/2022		
1/12/22			2/12/22			3/12/22			4/12/2022	408	11.9	5/12/2022	3031	88.40416667	6/12/2022	1862	54.30833333	7/12/2022			8/12/2022	536	15.63333333	9/12/2022			10/12/2022			11/12/2022			12/12/2022		
1/13/22			2/13/22			3/13/22			4/13/2022			5/13/2022	2077	60.57916667	6/13/2022	1794	52.325	7/13/2022			8/13/2022			9/13/2022			10/13/2022			11/13/2022			12/13/2022		
1/14/22			2/14/22			3/14/22			4/14/2022			5/14/2022	2564	74.78333333	6/14/2022	2152	62.76666667	7/14/2022			8/14/2022			9/14/2022			10/14/2022			11/14/2022			12/14/2022		
1/15/22			2/15/22			3/15/22			4/15/2022			5/15/2022	2461	71.77916667	6/15/2022	2824	82.36666667	7/15/2022			8/15/2022			9/15/2022			10/15/2022			11/15/2022			12/15/2022		
1/16/22			2/16/22			3/16/22			4/16/2022			5/16/2022	2711	79.07083333	6/16/2022	2530	73.79166667	7/16/2022			8/16/2022			9/16/2022			10/16/2022			11/16/2022			12/16/2022		
1/17/22			2/17/22			3/17/22			4/17/2022			5/17/2022	1909	55.67916667	6/17/2022	1470	42.875	7/17/2022			8/17/2022			9/17/2022			10/17/2022			11/17/2022			12/17/2022		
1/18/22		0	2/18/22			3/18/22			4/18/2022			5/18/2022	2266	66.09166667	6/18/2022	1815	52.9375	7/18/2022			8/18/2022			9/18/2022			10/18/2022			11/18/2022			12/18/2022		
1/19/22		0	2/19/22			3/19/22			4/19/2022			5/19/2022	2022	58.975	6/19/2022	1700	49.58333333	7/19/2022			8/19/2022			9/19/2022			10/19/2022			11/19/2022			12/19/2022		
1/20/22		0	2/20/22			3/20/22			4/20/2022			5/20/2022	2694	78.575	6/20/2022	1791	52.2375	7/20/2022			8/20/2022			9/20/2022			10/20/2022			11/20/2022			12/20/2022		
1/21/22		0	2/21/22			3/21/22			4/21/2022			5/21/2022	3099	90.3875	6/21/2022	2657	77.49583333	7/21/2022			8/21/2022			9/21/2022			10/21/2022			11/21/2022			12/21/2022		
1/22/22		0	2/22/22	618	18.025	3/22/22			4/22/2022			5/22/2022	1977	57.6625	6/22/2022	2886	84.175	7/22/2022			8/22/2022	790	23.04166667	9/22/2022			10/22/2022			11/22/2022			12/22/2022		
1/23/22		0	2/23/22			3/23/22			4/23/2022			5/23/2022	2137	62.32916667	6/23/2022	1676	48.88333333	7/23/2022			8/23/2022	1513	44.12916667	9/23/2022			10/23/2022			11/23/2022			12/23/2022		
1/24/22		0	2/24/22			3/24/22			4/24/2022			5/24/2022	2836	82.71666667	6/24/2022	2037	59.4125	7/24/2022			8/24/2022	2292	66.85	9/24/2022			10/24/2022			11/24/2022			12/24/2022		
1/25/22		0	2/25/22			3/25/22			4/25/2022	784	22.86666667	5/25/2022	2221	64.77916667	6/25/2022	1582	46.14166667	7/25/2022			8/25/2022	1943	56.67083333	9/25/2022			10/25/2022			11/25/2022		0	12/25/2022		
1/26/22		0	2/26/22			3/26/22			4/26/2022			5/26/2022	1588	46.31666667	6/26/2022	2061	60.1125	7/26/2022			8/26/2022	2259	65.8875	9/26/2022			10/26/2022			11/26/2022		0	12/26/2022		
1/27/22		0	2/27/22			3/27/22			4/27/2022			5/27/2022	1538	44.85833333	6/27/2022	962	28.05833333	7/27/2022			8/27/2022	1014	29.575	9/27/2022		0	10/27/2022			11/27/2022			12/27/2022		
1/28/22		0	2/28/22	831	24.2375	3/28/22			4/28/2022	357	10.4125	5/28/2022	1591	46.40416667	6/28/2022	2409	70.2625	7/28/2022			8/28/2022			9/28/2022			10/28/2022			11/28/2022			12/28/2022		
1/29/22		0				3/29/22			4/29/2022			5/29/2022	1523	44.42083333	6/29/2022	2555	74.52083333	7/29/2022			8/29/2022	1078	31.44166667	9/29/2022			10/29/2022			11/29/2022		0	12/29/2022		
1/30/22		0				3/30/22			4/30/2022			5/30/2022	2639	76.97083333	6/30/2022	2420	70.58333333	7/30/2022			8/30/2022	2436	71.05	9/30/2022			10/30/2022			11/30/2022		0	12/30/2022		
1/31/22		0				3/31/22						5/31/2022	3146	91.75833333				7/31/2022			8/31/2022	2075	60.52083333				10/31/2022						12/31/2022		
AVG	0	0		610.3333333	17.80138889		0	0		516.3333333	15.05972222		2242.964286	65.41979167		2017.433333	58.84180556		1983.5	57.85208333		1557	45.4125		#DIV/0!	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!	0	
MAX	0	0		831	24.2375		0	0		784	22.86666667		4295	125.2708333		2886	84.175		2367	69.0375		2436	71.05		0	0		0	0		0	0		0	0	
MIN	0	0.0000000		382	11.1416667		0	0.0000000		357	10.4125000		1141	33.2791667		714	20.8250000		1496	43.6333333		536	15.6333333		0	0.0000000		0	0.0000000		0	0.0000000		0	0.0000000	
Total for mont	0			1831			0			1549			62803			60523			15868			21798			0			0			0			0		

2022 AREA OF REVIEW
UNIT LETTERS ENCOMPASSED BY THE 2-MILE AOR

Sec	TWN	RNG	UL	
1	29N	12W	ALL	
2	29N	12W	ALL	
3	29N	12W	ALL	
4	29N	12W	ACFJKNP	
9	29N	12W	ABH	
10	29N	12W	ABCDIJN	
11	29N	12W	ACDGHILOP	
12	29N	12W	AEFKM	
25	30N	12W	EMN	
26	30N	12W	FGLNOP	
27	30N	12W	LMP	
28	30N	12W	O	
33	30N	12W	GHIJK	
34	30N	12W	ALL	
35	30N	12W	ALL	
36	30N	12W	AEIMN	

Radius expanded to 2 miles for permit renewal requirements.

													Surface Casing			*INT Casing*			*Production Casing*					
API	Well Name	Well #	Current Operator	Type	Lease	Status	Sec	TWN	RNG	UL	Spud Date	TD	size	depth	Sacks TOC	size	depth	Sacks TOC	size	depth	Sacks TOC	Perfs	Packer	PLUGGED
30-045-08851	ALLEN A	#001	BP America	Gas	Private	Plugged	1	29N	12W	D	3/12/1961	6785	8.265	264	200 surf				4.5	6785	300 surf	6518-6718		3/27/2018
30-045-26214	ALLEN A	#001E	SIMCOE LLC	Gas	Federal	Active	1	29N	12W	L	3/22/1985	5825	8.625	318	225 surf				5.5	6622	820 surf	6425-6602		
30-045-08661	Dudley Cornell A	#001	SIMCOE LLC	Gas	Federal	Active	1	29N	12W	O	11/15/1960	6730	9.625	263	200 surf				4.5	6707	300 surf	6434-6587		
30-045-24129	Dudley Cornell A	#001E	SIMCOE LLC	Gas	Federal	Active	1	29N	12W	G	4/28/1980	6722	9.625	348	250 surf				4.5	6710	180 surf	6496-6629		
30-045-34348	Allen Com	#100	Burlington	Gas	Federal	Plugged	1	29N	12W	B	10/22/2007	138												1/22/2009
30-045-08782	Cornell	5	Burlington	Gas	Federal	Plugged	1	29N	12W	G	9/30/1955	99999												4/28/1994
30-045-29167	Hike	1	Dugan Production	Gas	Federal	Active	1	29N	12W	G	7/10/1994	3840	8.625	260	175 surf				4.5	3820	595 surf	3710-3718	3710	
30-045-08656	Cornell	2	Energen Resources	Gas	Federal	Plugged	1	29N	12W	M	10/2/1955	1996												9/15/2005
30-045-29539	Cornell	3R	Epic Energy	Gas	Federal	Plugged	1	29N	12W	I	10/7/1955	0	7	131	45-53				3.5	2193	434-741	1991-2041		7/13/2018
30-045-29538	Cornell	5R	HilCorp	Gas	Federal	Active	1	29N	12W	A	4/14/1998	2225	7	131	45-53				3.5	2215	434-741	2029-2059		
30-045-08783	PRE-ONGARD WELL	#001	Pre Ongard	Gas	Private	Plugged	1	29N	12W	F	7/9/2003	2090												12/31/1901
30-045-08641	PRE-ONGARD WELL	#003	Pre Ongard	Gas	Federal	Plugged	1	29N	12W	O	4/11/1998	2203												11/16/1981
30-045-08793	Pre-Ongard		Southern union	Gas	Private	Plugged	1	29N	12W	E	3/16/1948	2125												3/16/1948
30-045-32346	CORNELL	#002R	Southland Royalty	Gas	Federal	Active	1	29N	12W	M	7/22/2004	2152	7	137	90 surf				4.5	2151	310 surf	1702-1926		
30-045-31612	Cornell	2S	Southland Royalty	Gas	Federal	Active	1	29N	12W	O	7/27/1957	0	7	136	56 surf				4.5	2058	225 surf	1725-1921		
30-045-28653	SUNCO DISPOSAL	#001	Agua Moss	Salt Water Disposal	Private	Active	2	29N	12W	E	1/28/1992	4760	8.625	209	150 surf				5.5	4760	1010 surf	4350-4460	4282 10/15/07	4350-4460 TA'd
30-045-33573	CORNELL COM	#500S	Burlington	Gas	Private	Plugged	2	29N	12W	P	3/18/2006	2210	7	132	34 surf	6.25	2210		4.5	2198	279 surf	1754-1939 1743-1924		1/23/2013
30-045-08844	KATTLER	#001	Burlington	Gas	Private	Plugged	2	29N	12W	C	1/26/1945	2069	10	846	surf	5.5	1960		3.5	2050	205 surf	1961-2007		5/26/2012
30-045-08713	McGrath SRC	#001	Burlington	Gas	Private	Plugged	2	29n	12w	j	7/7/1973	2136												1998
30-045-30486	MCGRATH SRC	#001R	Burlington	Gas	Private	Plugged	2	29N	12W	J	3/23/2001	2235												6/25/2010
30-045-32241	BECK	#001R	HilCorp	Gas	Private	Active	2	29N	12W	G	12/1/2004	2225	7	135	34 surf				4.5	2221	262 surf	1774-2077		
30-045-33811	BECK	#001S	HilCorp	Gas	Private	Active	2	29N	12W	D	8/17/2006	2200	7	162	85 surf				4.5	2195	255 surf	1730-1951		
30-045-31580	CORNELL COM	#500	HilCorp	Gas	Federal	Active	2	29N	12W	N	7/14/2003	2136	7	139	44 surf	6.25	2126		4.5	2126	258 surf	1658-1878		
30-045-08714	CORNELL SRC	#007	HilCorp	Gas	Federal	Active	2	29N	12W	L	7/29/1944	2107	16	42	10 surf	5.5	1978		3.5	2106	250 surf	1976-2010		

30-045-08704	MCGRATH B	#001	HilCorp	Gas	Private	Active	2	29N	12W	J	11/19/1961	6720	8.625	318	225 surf				4.5	1865	1065 surf	6489-6596		
30-045-08839	YOUNG	#001	HilCorp	Gas	Private	Active	2	29N	12W	D	8/1/1961	6740	8.625	307	275 surf				4.5	6739	700 surf	6446-6644		
30-045-08797	Pre-Ongard		Southland	Gas	Private	Plugged	2	29n	12w	g	4/14/1948	2125												2/23/1984
30-045-27635	PRE-ONGARD WELL	#500		Gas	Federal	Plugged	2	29N	12W	M														12/31/1901
30-045-08709	MCGRATH	#003	Burlington	Gas	Private	Plugged	3	29N	12W	J	3/4/1945	2040												3/1/2013
30-045-60274	WALKER 2	#002	Burlington	Gas	Private	Plugged	3	29N	12W	D	1/8/1945	1974												7/24/1998
30-045-08823	Walker SRC	1	Burlington	Gas	Private	Plugged	3	29N	12W	G	2/25/1943	2050												10/12/2009
30-045-33580	MCGRATH	#003S	HilCorp	Gas	Private	TA'd	3	29N	12W	B	7/13/2007	2132	7	218	150 surf				4.5	2112	289 surf	1692-1904		TA'd 10/23/2009
30-045-08712	MCGRATH A	#001	HilCorp	Gas	Private	Active	3	29N	12W	I	3/14/1964	6689	8.625	307	250 surf				4.5	6688	500 surf	6432-6524		
30-045-32931	WALKER	#100S	HilCorp	Gas	Private	Active	3	29N	12W	F	8/14/2005	2120	7	144	61 surf				4.5	2117	238 surf	1621-1885		
30-045-08801	WALKER 1	#001	HilCorp	Gas	Private	Active	3	29N	12W	E	4/12/1960	6620	8.625	232	150 surf				4.5	6620	300 surf	6546-6556		
30-045-30244	WALKER 100	#100	HilCorp	Gas	Private	TA'd	3	29N	12W	L	3/30/2001	1948	7	126	140-168				4.5	1940	219-399	1659-1872	1597 CIBP@1609	Tad
30-045-08711	Pre-Ongard		Union Texas	Gas	Private	Plugged	3	29N	12W	K	6/25/1955	1940												11/10/1964
30-045-29117	RIGGS	#001	Enduring Resources	Gas	Private	Active	4	29N	12W	A	6/24/1994	1900												
30-045-29118	RIGGS	#002	Enduring Resources	Gas	Private	Plugged	4	29N	12W	N	6/28/1994	1890												5/8/2017
30-045-32239	RIGGS	#003	Enduring Resources	Gas	Private	Active	4	29N	12W	C	2/21/2005	1906												
30-045-32312	RIGGS	#004	Enduring Resources	Gas	Private	Active	4	29N	12W	P	3/20/2005	2002												
30-045-08718	STANDARD	#001	HilCorp	Gas	Federal	Active	4	29N	12W	J	11/3/1960	6600	8.625	236	175 surf				4.5	6600	250 surf	6356-6510		
30-045-08720	DEVONIAN FEDERAL	#001	Holcomb Oil & Gas	Gas	Federal	Active	4	29N	12W	K	6/23/1959	6538												
30-045-24552	PRE-ONGARD WELL	#001	Pre Ongard	Gas	Federal	Plugged	4	29N	12W	A	5/29/1981	0												12/7/1995
30-045-08804	FEDERAL	#001	Riggs Oil & Gas	Gas	Federal	Plugged	4	29N	12W	F	5/29/1959	1856												2/9/2017
30-045-08586	FLORANCE GAS COM B	#001	SIMCOE LLC	Gas	Federal	Active	9	29N	12W	H	1/20/1964	6470												
30-045-28824	ROPCO FEE FC 9	#002	HilCorp	Gas	Private	Active	9	29N	12W	A	11/25/1992	1975												
30-045-26855	PRE-ONGARD WELL	#001	Pre Ongard	Gas	Private	Plugged	9	29N	12W	B	3/18/1988	0												3/9/1989
30-045-08601	CORNELL A	#001	SIMCOE LLC	Gas	Federal	Active	10	29N	12W	D	12/28/1960	6510												
30-045-24132	CORNELL A	#001E	BP America	Gas	Federal	Plugged	10	29N	12W	N	4/4/1980	6350												1/24/2018

30-045-08605	CORNELL	#007	Burlington	Gas	Federal	Plugged	10	29N	12W	C	4/20/1956	1807												7/18/1996
30-045-23889	BECK A	#001E	HilCorp	Gas	Federal	Active	10	29N	12W	B	1/5/1981	6514	8.625	240	150 surf				4.5	6514	765 surf	6277-6454		
30-045-08517	BECK A	#001	HilCorp	Gas	Private	Active	10	29N	12W	J	6/12/1962	6410												
30-045-30381	CORNELL	#100	HilCorp	Gas	Federal	Active	10	29N	12W	B	1/7/2003	1968	7	147	55 surf				4.5	1959	229 surf	1543-1704 1744-1800		
30-045-08523	PRE-ONGARD WELL	#001	Pre Ongard	Water	Private	Permanently	10	29N	12W	J	8/21/1946	1871												10/31/1977
30-045-23758	Pre-Ongard		Southland	Gas	Federal	Plugged	10	29N	12W	A	12/19/1980	1870												2/10/1984
30-045-34452	BECK 29 12 10	#108	Synergy	Gas	Federal	Plugged	10	29N	12W	N	2/21/2008	1865												4/27/2020
30-045-13092	CORNELL C	#001	SIMCOE LLC	Gas	Federal	Active	11	29N	12W	D	12/6/1961	6604	8.625	250	150 surf				4.5	6604	300 surf	6298-6483		
30-045-08615	CORNELL	#006	Epic Energy	Gas	Federal	Active	11	29N	12W	C	11/7/1955	1839	8.625	106	70 surf	5.5	1811		3.5	2022	181 surf	1811-1839		
30-045-31581	CORNELL	#101	HilCorp	Gas	Federal	Active	11	29N	12W	D	10/7/2003	2008	7	140	35 surf				4.5	2000	270 surf	1726-1764		
30-045-24447	FEDERAL PRI	#001E	HilCorp	Gas	Federal	Active	11	29N	12W	H	10/9/1980	6581												
30-045-29945	PAYNE	#001R	Mcelvain Energy	Gas	Federal	Active	11	29N	12W	H	10/27/1999	2050												
30-045-32667	PRI	#003	Mcelvain Energy	Gas	Federal	Active	11	29N	12W	I	2/27/2005	1960												
30-045-13218	PRE-ONGARD WELL	#010	Pre Ongard	Gas	Federal	Plugged	11	29N	12W	A		0												12/31/1901
30-045-08558	PRE-ONGARD WELL	#001	Pre Ongard	Gas	Federal	Plugged	11	29N	12W	G	1/1/1940	0												4/16/1976
30-045-08515	PRE-ONGARD WELL	#001	Pre Ongard	Gas	Private	Plugged	11	29N	12W	L	11/25/1932	0												12/13/1982
30-045-20067	PRE-ONGARD WELL	#001	Pre Ongard	Gas	Federal	Plugged	11	29N	12W	O	5/5/1967	0												4/18/1986
30-045-08475	CARROLL CORNELL	#012	Producing Royalties	Gas	Federal	Plugged	11	29N	12W	P	11/22/1953	1895												6/13/1979
30-045-22118	PAYNE	#001	Producing Royalties	Gas	Federal	Plugged	11	29N	12W	A	7/31/1976	2060												2/13/2002
30-045-24086	CORNELL D	#001E	SIMCOE LLC	Gas	Federal	Active	12	29N	12W	A	5/22/1980	6635												
30-045-24283	CORNELL E	#001E	SIMCOE LLC	Gas	Federal	Active	12	29N	12W	F	5/12/1980	6609												
30-045-08444	CORNELL E	#001	BP America	Gas	Federal	Plugged	12	29N	12W	M	9/28/1962	6562												6/27/2017
30-045-08528	CORNELL SRC	#004	Burlington	Gas	Federal	Plugged	12	29N	12W	K	5/25/1941	1970												3/29/2017
30-045-22119	PAYNE	#002	Mcelvain Energy	Gas	Federal	Plugged	12	29N	12W	F	7/22/1976	2062												10/30/2010
30-045-22962	PAYNE	#002J	RIM Operating	Gas	Federal	Active	12	29N	12W	E	6/12/1978	2026												
30-045-33015	PRI	#001S	RIM Operating	Gas	Federal	Active	12	29N	12W	A	9/20/2005	2057												

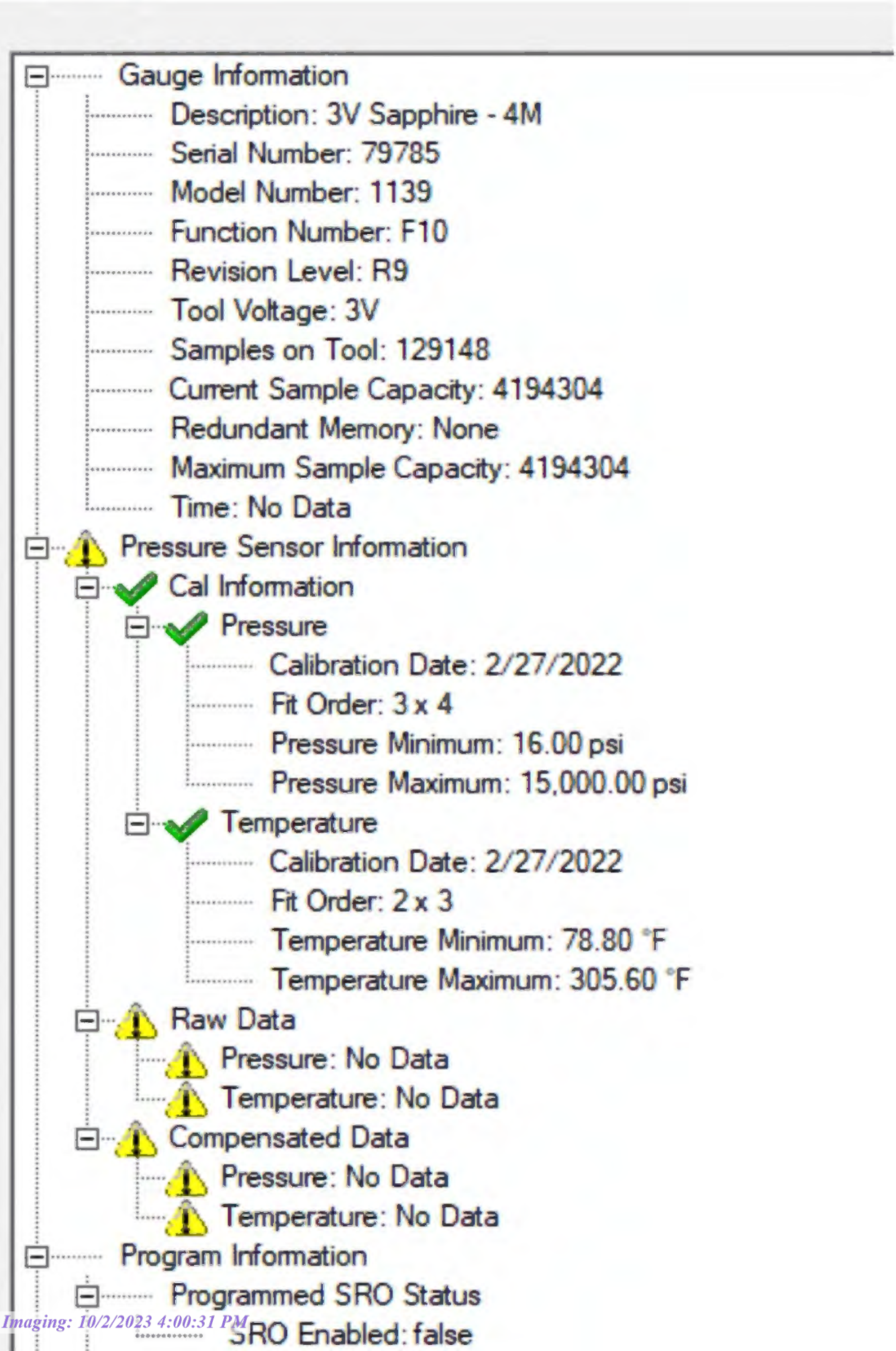
30-045-32665	PRI	#001	RIM Operating	Gas	Federal	Active	12	29N	12W	E	2/17/2005	2090											
30-045-32666	PRI	#002	RIM Operating	Gas	Federal	Active	12	29N	12W	M	2/8/2005	2010											
30-045-09117	PRE-ONGARD WELL	#001	ONGARD WELL OPERATOR	Gas	Private	Plugged	25	30N	12W	M	4/13/1953	0											5/26/1958
30-045-26121	ROWLAND GAS COM	#001E	HilCorp	Gas	Private	Active	25	30N	12W	M	3/19/1985	6560											
30-045-29707	RUBY CORSCOT A	#001	HilCorp	Gas	Private	Active	25	30N	12W	N	9/25/1999	2007											
30-045-31641	RUBY CORSCOT A	#002	HilCorp	Gas	Private	Active	25	30N	12W	E	6/2/2003	2076											
30-045-30456	KATY COM	#002	[14634] MERRION OIL & GAS CORP	Gas	Private	Plugged	26	30N	12W	P	4/27/2001	2028											8/10/2015
30-045-09177	PAUL PALMER	#001	[14634] MERRION OIL & GAS CORP	Gas	Private	Plugged	26	30N	12W	L	9/13/1961	3509											8/14/2015
30-045-29414	PRE-ONGARD WELL	#001	ONGARD WELL OPERATOR	Gas	Private	Plugged	26	30N	12W	G	6/21/1953	0											12/31/1901
30-045-09130	PRE-ONGARD WELL	#003	ONGARD WELL OPERATOR	Gas	Private	Plugged	26	30N	12W	O		0											3/12/1954
30-045-09165	PAUL PALMER D	#001	[5073] CONOCO INC	Gas	Private	Plugged	26	30N	12W	L	10/11/1961	99999											3/17/1995
30-045-30027	PADILLA	#001	HilCorp	Gas	Private	Active	26	30N	12W	F	1/15/2004	1953											
30-045-32243	PADILLA	#002	HilCorp	Gas	Private	Active	26	30N	12W	N	5/13/2004	2153											
30-045-09200	PRE-ONGARD WELL	#001	ONGARD WELL OPERATOR	Gas	Private	Plugged	27	30N	12W	L	3/30/1947	0											3/17/1959
30-045-13120	DUFF GAS COM B	#001	AMERICA PRODUCTION	Gas	Private	Plugged	27	30N	12W	P	2/28/1962	1950											5/30/1996
30-045-30544	DUFF GAS COM	#003	HilCorp	Gas	Private	Active	27	30N	12W	P	4/1/2001	5167											
30-045-09134	DUFF GAS COM C	#001	HilCorp	Gas	Private	Active	27	30N	12W	M	1/30/1964	6365											
30-045-26076	DUFF GAS COM C	#001E	HilCorp	Gas	Private	Active	27	30N	12W	P	9/20/1984	6500											
30-045-29664	DUFF GAS COM C	#002	HilCorp	Gas	Private	Active	27	30N	12W	M	10/16/1998	1856											
30-045-31284	DUFF GAS COM C	#004	HilCorp	Gas	Private	Active	27	30N	12W	P	1/27/2003	1996											
30-045-34235	GILBREATH	#002	Enduring Resources	Gas	Private	Active	28	30N	12W	O	4/30/2008	2170											
30-045-09037	HARGIS	#001	MCGEE OIL & GAS ONSHORE LP	Gas	Private	Plugged	33	30N	12W	G	9/15/1944	1808											2/23/1994
30-045-08999	PRE-ONGARD WELL	#002	ONGARD WELL OPERATOR	Gas	Private	Plugged	33	30N	12W	J	7/10/1946	0											6/4/1982
30-045-08998	JULANDER	#002	PRODUCTION CORP	Gas	Private	Plugged	33	30N	12W	I	4/1/1946	1936											4/12/1999
30-045-29023	REDFERN	#002	Enduring Resources	Gas	Private	Active	33	30N	12W	H	12/5/1993	1950											
30-045-32236	REDFERN	#003	Enduring Resources	Gas	Private	Active	33	30N	12W	I	3/8/2005	1993											

30-045-28912	SHIOTANI	#007	Enduring Resources	Gas	Private	Active	33	30N	12W	K	12/31/1992	1782											
30-045-09001	MADDOX	#001	HilCorp	Gas	Private	Active	33	30N	12W	J	9/21/1961	6400											
30-045-25923	MCGRATH	#004	BURLINGTON RESOURCES OIL &	Salt Water Disposal	Federal	Plugged	34	30N	12W	B	9/4/1984	4700											7/25/2013
30-045-09052	PRE-ONGARD WELL	#001	ONGARD WELL OPERATOR	Gas	Federal	Plugged	34	30N	12W	F	9/11/1945	0											1/22/1964
30-045-08939	PRE-ONGARD WELL	#001	ONGARD WELL OPERATOR	Gas	Private	Plugged	34	30N	12W	L	1/1/1945	0											6/4/1982
30-045-08950	HUDSON	2	Burlington	Gas	Federal	Plugged	34	30N	12W	P	7/17/1946	2137											9/26/2008
30-045-08945	MCGRATH C	#001	Burlington	Gas	Federal	Plugged	34	30n	12W	p	2/7/1963	6637											4/29/2009
30-045-26141	DUFF GAS COM	#001E	HilCorp	Gas	Federal	TA'd	34	30N	12W	G	11/20/1984	6608	8.625	316	295 surf				4.5	6608	1000 surf	6396-6576 04'RC to FC 1492-1870	TA'd 3/5/14
30-045-09071	DUFF GAS COM	#001	HilCorp	Gas	Private	Active	34	30N	12W	D	1/30/1962	6425											
30-045-31756	JULANDER	#100	HilCorp	Gas	Private	Shut In	34	30N	12W	D	7/13/2005	1895											
30-045-33411	JULANDER	#100S	HilCorp	Gas	Federal	Shut In	34	30N	12W	M	3/7/2006	2075											
30-045-31355	CARNAHAN COM	#001Y	HOLCOMB OIL & GAS INC	Gas	Private	Active	35	30N	12W	A	2/15/2003	2150											
30-045-11770	HUDSON J	#003	HilCorp	Gas	Federal	TA'd	35	30N	12W	E	7/22/1966	6750	8.625	306	250 surf				4.5	6750	750 surf	6460-6680 01' RC to FC 1784-1994	
30-045-08946	CARNAHAN COM	#001	Holcomb Oil & Gas	Gas	Private	Active	35	30N	12W	P	12/19/1960	6778	8.625	301	200 surf				4.5	6760	445 surf	6521-6708 94 RC to FC 1824-2037	
30-045-25844	CARNAHAN COM	#002	Merrion Oil & Gas	Gas	Private	Active	35	30N	12W	P	6/15/1984	6780	8.625	230	170 surf				4.5	6777	1425 surf	6529-6714	
30-045-20140	Pre-Ongard		Southland	Gas	Federal	Plugged	35	30N	12W	L	9/7/1967	DH											6/9/1982
30-045-28177	FC STATE COM	#024	Burlington	Gas	State	Plugged	36	30N	12W	M	10/9/1990	6608											3/26/2013
30-045-12188	NEW MEXICO COM N	#001	HilCorp	Gas	State	Active	36	30N	12W	E	1/2/1966	6562											
30-045-31074	NEW MEXICO COM N	#100	HilCorp	Gas	State	Shut In	36	30N	12W	A	8/29/2002	2135											
30-045-08986	STATE COM AH	#030	HilCorp	Gas	State	Active	36	30N	12W	I	6/14/1961	6645											
30-045-24037	STATE COM AH	#030E	HilCorp	Gas	State	Plugged	36	30N	12W	N	8/10/1980	6620											4/28/2016

Agua Moss - Sunco Disposal				
Operations Log for Falloff Test				
Date	**Rate (bbls/day)**	**TBG Pressure (psig)**	**CSG Pressure (psig)**	**Comment**
8/8/22 9:00 AM				Perform BH test & MIT test
8/8/22 10:43 AM				PLUGGED IN GAUGES
8/8/22 10:48 AM				OPENED WELL
8/8/22 11:04 AM				SET GAUGES
8/8/22 12:30 PM	1711	1500	0	Start injection
8/8/22 1:00 PM	1702	1600	0	
8/8/22 2:00 PM	1702	1650	0	
8/8/22 3:00 PM	1692	1700	0	
8/8/22 4:00 PM	1702	1700	0	
8/8/22 5:00 PM	1692	1750	0	
8/8/22 6:00 PM	1702	1750	0	
8/8/22 7:00 PM	1692	1750	0	
8/8/22 8:00 PM	1702	1750	0	
8/8/22 9:00 PM	1702	1775	0	
8/8/22 9:15 PM				Down HP kill
8/8/22 9:30 PM				Back on
8/8/22 10:00 PM	1673	1775	0	
8/8/22 11:00 PM	1673	1800	0	
8/9/22 12:00 AM	1664	1800	0	
8/9/22 1:00 AM	1664	1800	0	
8/9/22 2:00 AM	1655	1825	0	
8/9/22 3:00 AM	1655	1825	0	
8/9/22 4:00 AM	1665	1825	0	
8/9/22 5:00 AM	1664	1825	0	
8/9/22 6:00 AM	1673	1825	0	
8/9/22 7:00 AM	1665	1825	0	
8/9/22 8:00 AM	1655	1850	0	
8/9/22 9:00 AM	1655	1850	0	
8/9/22 10:00 AM	1664	1850	0	
8/9/22 11:00 AM	1664	1850	0	
8/9/22 12:00 PM	1673	1850	0	
8/9/22 1:00 PM	1673	1850	0	
8/9/22 2:00 PM	1673	1860	0	
8/9/22 3:00 PM	1664	1860	0	
8/9/22 4:00 PM	1683	1860	0	
8/9/22 5:00 PM	1664	1870	0	
8/9/22 6:00 PM	1664	1870	0	
8/9/22 7:00 PM	1673	1870	0	
8/9/22 8:00 PM	1664	1900	0	
8/9/22 9:00 PM	1673	1900	0	
8/9/22 10:00 PM	1664	1900	0	

8/9/22 11:00 PM	1673	1900	0	
8/10/22 12:00 AM	1673	1900	0	
8/10/22 1:00 AM	1664	1900	0	
8/10/22 2:00 AM	1673	1900	0	
8/10/22 3:00 AM	1683	1900	0	
8/10/22 4:00 AM	1683	1900	0	
8/10/22 5:00 AM	1683	1900	0	
8/10/22 6:00 AM	1692	1900	0	
8/10/22 7:00 AM	1702	1900	0	
8/10/22 8:00 AM	1702	1900	0	
8/10/22 9:00 AM	1692	1900	0	
8/10/22 10:00 AM	1702	1900	0	
8/10/22 11:00 AM	1692	1900	0	
8/10/22 12:00 PM	1683	1900	0	
8/10/22 1:00 PM	1683	1900	0	
8/10/22 2:00 PM	1664	1900	0	
8/10/22 3:00 PM	1655	1900	0	
8/10/22 4:00 PM	1664	1900	50	
8/10/22 5:00 PM	1655	1900	50	
8/10/22 6:00 PM	1673	1900	50	
8/10/22 7:00 PM	1673	1900	50	
8/10/22 8:00 PM	1664	1900	60	
8/10/22 9:00 PM	1664	1900	60	
8/10/22 10:00 PM	1673	1900	60	
8/10/22 11:00 PM	1683	1920	60	
8/11/22 12:00 AM	1673	1920	60	
8/11/22 1:00 AM	1673	1920	60	
8/11/22 2:00 AM	1673	1920	60	
8/11/22 3:00 AM	1702	1920	60	
8/11/22 4:00 AM	1683	1920	60	
8/11/22 5:00 AM	1673	1920	60	
8/11/22 6:00 AM	1664	1920	60	
8/11/22 7:00 AM	1692	1920	60	
8/11/22 8:00 AM	1683	1920	60	
8/11/22 9:00 AM	1692	1920	90	
8/11/22 10:00 AM	1692	1930	90	
8/11/22 11:00 AM	1692	1930	100	
8/11/22 12:00 PM	1702	1930	100	
8/11/22 1:00 PM	1702	1940	100	
8/11/22 2:00 PM	1692	1940	100	
8/11/22 3:00 PM	1702	1950	100	
8/11/22 4:00 PM	1711	1950	100	
8/11/22 5:00 PM	1721	1950	100	
8/11/22 6:00 PM	1721	1950	100	
8/11/22 7:00 PM	1721	1950	100	
8/11/22 8:00 PM	1711	1950	100	
8/11/22 9:00 PM	1711	1950	120	

8/11/22 10:00 PM	1702	1950	120	
8/11/22 11:00 PM	1730	1950	180	
8/12/22 12:00 AM	1711	1950	180	
8/12/22 1:00 AM	1722	1950	200	
8/12/22 2:00 AM	1711	1950	220	
8/12/22 3:00 AM	1730	1950	230	
8/12/22 4:00 AM	1721	1950	240	
8/12/22 5:00 AM	1721	1950	300	
8/12/22 6:00 AM	1711	1950	300	
8/12/22 7:00 AM	1711	1950	300	Shut in for Falloff Test
8/22/22 9:30 AM				End falloff test
8/22/22 9:38 AM				RELEASED GAUGES @9:38:10
				MADE STOPS @
8/22/22 9:46 AM				3000' 9:41:36-9:46:36
8/22/22 9:54 AM				2000' 9:49:18-9:54:18
8/22/22 10:01 AM				1000' 9:56:35-10:01:35
8/22/22 10:10 AM				0' 10:05:30-10:10:30
8/22/22 10:19 AM				UNPLUGGED GAUGES


Gauge Information
Description: 3V Sapphire - 4M
Serial Number: 79785
Model Number: 1139
Function Number: F10
Revision Level: R9
Tool Voltage: 3V
Samples on Tool: 129148
Current Sample Capacity: 4194304
Redundant Memory: None
Maximum Sample Capacity: 4194304
Time: No Data
Pressure Sensor Information
Cal Information
Pressure
Calibration Date: 2/27/2022
Fit Order: 3 x 4
Pressure Minimum: 16.00 psi
Pressure Maximum: 15,000.00 psi
Temperature
Calibration Date: 2/27/2022
Fit Order: 2 x 3
Temperature Minimum: 78.80 °F
Temperature Maximum: 305.60 °F
Raw Data
Pressure: No Data
Temperature: No Data
Compensated Data
Pressure: No Data
Temperature: No Data
Program Information
Programmed SRO Status
SRO Enabled: false

Released to Imaging: 10/2/2023 4:00:31 PM

Received by OCD: 10/2/2023 3:49:18 PM

Received by OCD: 10/2/2023 3:49:18 PM

NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC NM 87410
(505) 334-6178 FAX: (505) 334-6170
http://emnrd.state.nm.us/ocd/District III/3district.htm

BRADENHEAD TEST REPORT

(submit 1 copy to above address)

Date of Test 8-8-22 Operator Agua Moss API #30-0 45 28653

Property Name SunCo Disp Well No. 1 Location: Unit K Section 2 Township 29 Range 12

Well Status(Shut-In or Producing) Initial PSI: Tubing 1360 Intermediate N/A Casing 300 Bradenhead 0

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing	PRESSURE Bradenhead BH	Bradenhead Int	Bradenhead Csg	INTERM Int	INTERM Csg
TIME 5 min	0		300		
10 min	0		300		
15 min	0		300		
20 min					
25 min					
30 min					

FLOW CHARACTERISTICS	BRADENHEAD	INTERMEDIATE
Steady Flow		
Surges		
Down to Nothing		
Nothing	✓	
Gas		
Gas & Water		
Water		

If bradenhead flowed water, check all of the descriptions that apply below:

CLEAR____ FRESH____ SALTY____ SULFUR____ BLACK____

5 MINUTE SHUT-IN PRESSURE BRADENHEAD____ INTERMEDIATE N/A

REMARKS: Nothing when opened. Nothing when opened after 5 min Shut in

By____ Witness Monica Kuehling

Released to Imaging: 10/2/2023 4:00:31 PM

Sunco SWD #1

30-045-28653

Class I Disposal: UICI-5-0

2022 Fall off Test

Agua Moss, LLC

P.O Box 600

Farmington, NM 87499

ORGID 247130

Report Components:

1. Facility Operator Information
    a. Agua Moss, LLC
    b. PO Box 600 Farmington, NM 87499
    c. OGRID 247130
2. Well Information:
    a. UIC Permit # UICI-5-0
    b. Class I
    c. Sunco Disposal #1
    d. 30-045-28653
    e. UL E, Sec 2, T29N, R12W 1595 FNL & 1005 FWL San Juan County
3. Current Wellbore Diagram: **Attached** (page 4)
4. Copy of Electronic Log: **Previously submitted 1992** (Page 36)
5. Copy of Porosity Log: **Previously submitted 1992** (Page 37)
6. See attached Fall off Test Analysis
    a. Fall off Test Procedure (Page 5)
    b. Analysis (Page 5)
    c. Results (Page 27)
    d. Summary (Page 27)
7. Results Comparison attached (page 28)
8. The raw test data will be kept on file for a period of 3-years and will be made available to the NMOCD upon written request. (Page 48)
9. Conclusions (page 28)
10. Any pressure or temperature anomaly: At 9:15 pm on 9/9/2022 the pumps shut down due to the high pressure kill, the pumps were immediately restarted, and the issues resolved. The injection period was extended by 24 hours to achieve the 50 hours of uninterrupted injection time.
11. Plots attached
    a. Pressure and Rate (fig 3) (page 29)
    b. Injection Rate vs Time (fig 4) (page 30)
    c. Pressure and Rate (fig 5) (page 31)
    d. Elapsed Time (fig 2) (page 5)
    e. Derivative Plot (fig 6) (page 32)
    f. Horner Plot (fig 7) (page 33)
    g. Elapsed Gauge Time (fig 8) (page 34)
    h. Injection Volumes and Surface Pressure (fig 9) (page 35)
12. NO PVT data necessary, wellbore fluid is fresh-to-slightly saline water. No significant hydrocarbons present that would alter the density, compressibility and/or viscosity of the fluid.
13. The Agua Moss, LLC internal Daily Injection Reports were used to determine the appropriate injection history to use for the analysis. A summary of those reports (January 2022 through July 2022) are attached. (page 39-41)
14. The Sunco Disposal #1 has injected approximately 16,689,852 bbls into the point lookout formation from 1994 through August 2022. The offset well McGrath SWD #4 API 30-045-25923 was plugged 7/25/2013. Cumulative injection 1994-7/2013 27,746,479 bbls.
15. 2 Mile AOR:

a. AOR 2 mile (page 42)
b. AOR 2 mile well data (page 43-47)
c. The McGrath #4 was the only offset well that was injecting into the Point Lookout formation within 1 mile. This well was plugged 7/25/2013.

16. Geological information was provided in the 2012 Permit renewal and approved in 2012.
17. Offset Wells: One offset well that was completed in the same injection interval was the McGrath #4. This well was plugged 7/2013 and therefore was not impacted.
18. Chronological listing of the daily, testing activities (Operations Log) attached (page 48-50)
    a. Date of Test: 8/8/2022 – 8/22/2022
    b. Type of injection fluid: Produced water
    c. Final Injection Pressure & Temp prior to shutting in the well: 3787 psi, 33°C
    d. Total shut-in time: 240 hours
    e. Final static pressure & temp at the end of the fall-off portion of the test: 3263 psi, 46°C
19. Location of the shut-in valve: **A wing valve located on the well's Christmas tree was closed to begin the FOT**
20. Pressure Gauges: (pages 51)
    a. 3V Sapphire – 4M gauge Model 1139
    b. Pressure range: **16-15,000 psig**
    c. Last Calibration: **2/27/2022**

Wellbore Schematic:

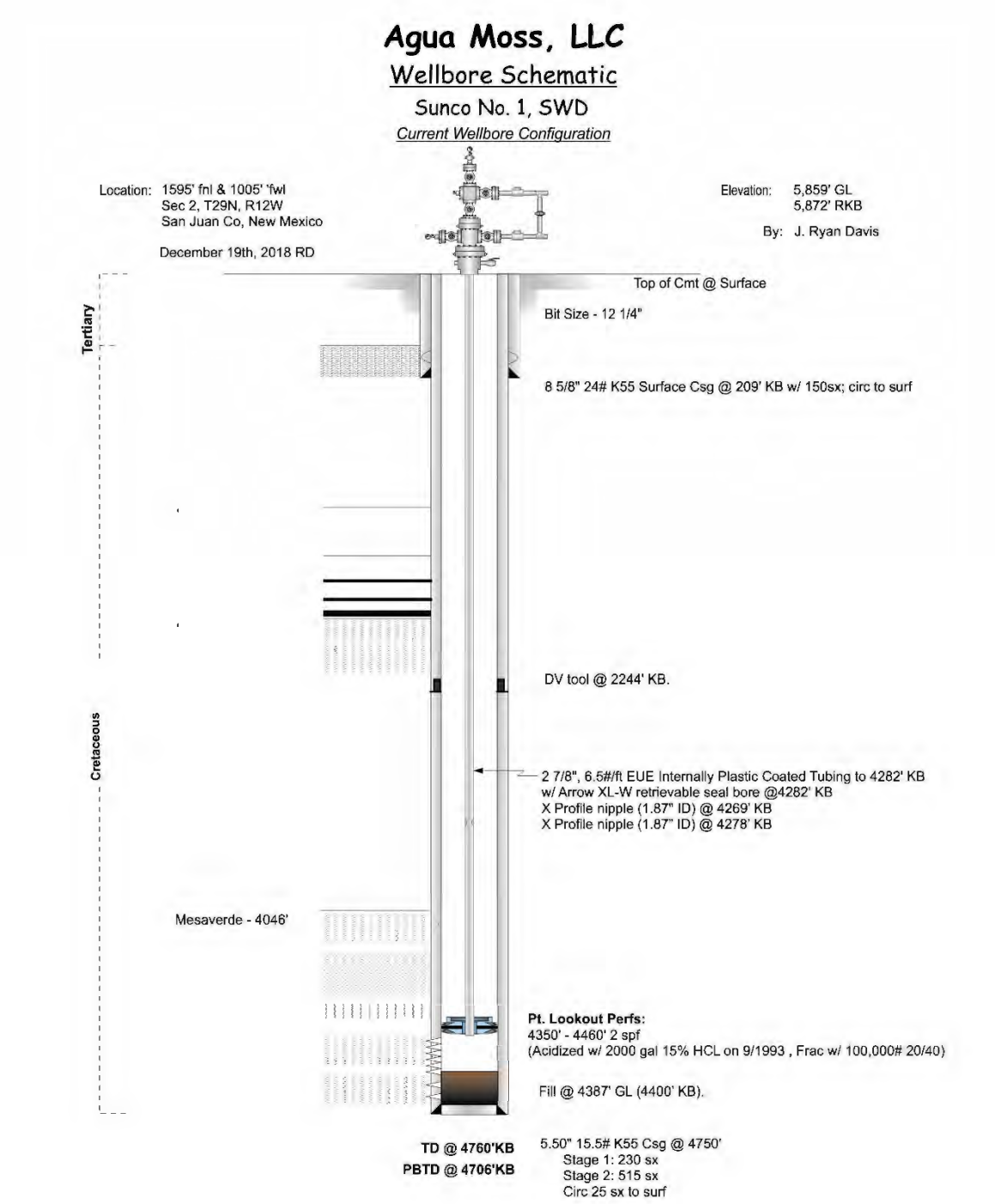


Figure 1: Wellbore Schematic

At the request of the NMOCD and permit requirements, a Falloff Test (FOT) was performed on the Sunco SWD #1 Class I injection well (UICI-5-0) from **8/8/2022 to 8/22/2022**. Below is a summary of findings from the FOT.

Procedure:

Tandem electronic gauges were run in the subject well along with two Foxboro IGP10S industrial pressure transducers installed at surface. The initial BHP was 3229 psi at a depth of 4269'. The injection period started at 12:29 pm on 08/08/2022, with a total of 6,461 bbls injected over 93 hours and an average injection rate of 1,684 bpd (49 gpm). At 9:15 pm on 9/9/2022 the pumps shut down due to high pressure kill, the pumps were immediately restarted and the issues resolved. The injection period was extended by 24 hours to achieve the 50 hours of uninterrupted injection time. The final bottom hole injection pressure was 3787 psi. Injection was shut down and the well was shut it at the wellhead. The bottom hole pressures were monitored for 240 hours of pressure falloff. The final BHP was 3263 psi.

Analysis:

The FOT data was compiled in excel and analyzed. The data was also given to a third party consultant for further analysis and confirmation of results, the analysis is found on pages 8 -20.

A Cartesian plot of pressure and temperature versus elapsed time is presented in Figure 2 below. The stabilization of pressure was confirmed prior to shut-in. The plot was reviewed for anomalous data and none was found other than the data from 9:15 pm on 9/9/22 when the pumps shut down.

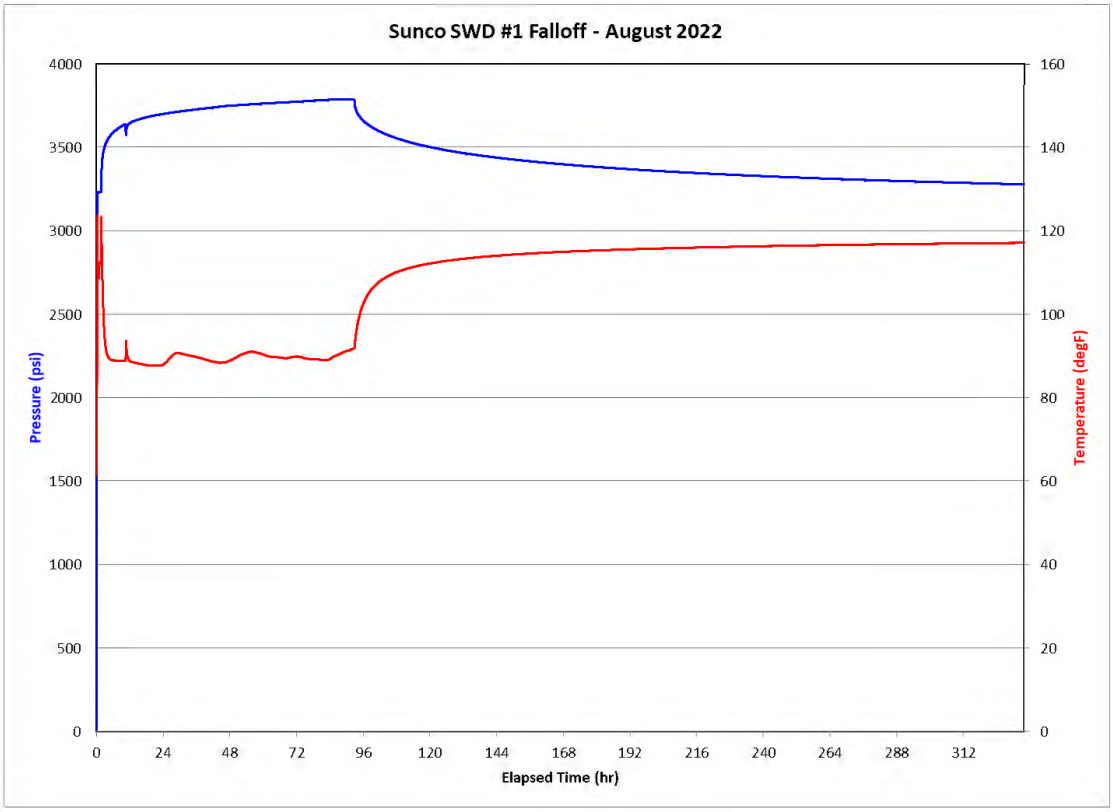


Figure 2 BH Pressure and Temperature vs. Time

IRT Analysis



2022 Fall-off Pressure Test Analysis
for the
Sunco Disposal Well #1
San Juan County, New Mexico

prepared for

Merrion Oil and Gas Corporation

16 September 2022

International Reservoir Technologies, Inc.
Lakewood, Colorado, USA

Tel. (303) 279-0877
Fax (303) 279-0936



Sunco Disposal Well #1 2022 Fall-off Test Results

Summary:

The results of the 2022 fall off test (FOT) for the Sunco Disposal Well #1 indicate that the reported wellbore fill at the depth of 4374 feet GL did influence the test analysis. However, a set of satisfactory results was obtained using the three different analysis methods as described below. The calculated results are comparable to the 2015, 2016, 2017 and 2018 fall-off test results.

Both the bottom hole gauge data and the surface gauge reported pressures were analyzed for this report. The results were similar for both data sets which would support using only a surface gauge for the FOT in the future.

As noted in the 2018 report, the pressure transient effects of the partial penetration condition of the completion due to the fill, plus the hydraulic fracture and the wellbore storage effects do obscure to some extent the reservoir property influences; however, again a reasonable and satisfactory set of reservoir properties could be calculated. The conventional straight-line analysis for extrapolated pressure and the reservoir property calculations from the MDH type plot is acceptable and the type curve analysis and the derivative plot results are reasonable. The input parameters for the fluid properties (i.e. PVT data) were the same as the 2018, 2017 and 2016 tests with the source being the report titled “2nd Quarter 2016 Sampling - Injection Well.pdf”, NM1-9 INJECTION WELL ANALYTICAL RESULTS, Agua Moss Disposal Facility, Crouch Mesa Road, San Juan County, New Mexico, 6/28/16.

For the analysis using the BH gauge data, the results from the derivative, Horner and MDH type pressure plots are summarized in the table below. The results for the different methods were consistent and the average calculated properties were:

- Estimated Kw (permeability) = 9.1 md
- Estimated skin = -5.8
- Extrapolated pressure = 3,303 psig
- Fracture half-length = 586 feet (from derivative half-slope line)
- Radius of investigation = 1,690 feet

Calculated Reservoir Parameters - Bottom Hole Guage				
	Horner Analysis	MDH Plot	Derivative Plot	Average
Estimated Kw (permeability, mD)	11.5	7.7	8.1	9.1
Estimated skin (dimensionless)	-6.7	-5.5	-5.3	-5.8
Extrapolated pressure (psig)	3,174	3,375	3,361	3,303
Fracture half-length (feet)	--	--	586	586
Radius of investigation (feet)	--	1,960	--	1,960



For the analysis using the surface gauge data, the results from the derivative, Horner and MDH type pressure plots are summarized in the table below. The surface recorded data was adjusted to BH datum of 4362 feet using a gradient of 0.431 psi/foot. Also, the initial few minutes of surface gauge data was smoothed slightly due to erratic points caused by the proximity to the pump as the injection was stopped.

The results for the different methods were consistent and the average calculated properties were:

- Estimated Kw (permeability) = 8.7 md
- Estimated skin = -5.8
- Extrapolated pressure = 3,293 psig
- Fracture half-length = 701 feet (from derivative half-slope line)
- Radius of investigation = 1,930 feet

Calculated Reservoir Parameters - Gauge (Adjusted to BH Datum)				
	Horner Analysis	MDH Plot	Derivative Plot	Average
Estimated Kw (permeability, mD)	10.8	8.0	7.3	8.7
Estimated skin (dimensionless)	-6.7	-5.4	-5.4	-5.8
Extrapolated pressure (psig)	3,168	3,372	3,339	3,293
Fracture half-length (feet)	--	--	701	701
Radius of investigation (feet)	--	1,930	--	1,930

Larger versions of the following analysis plots appear at the end of this document.



Input data and assumptions:

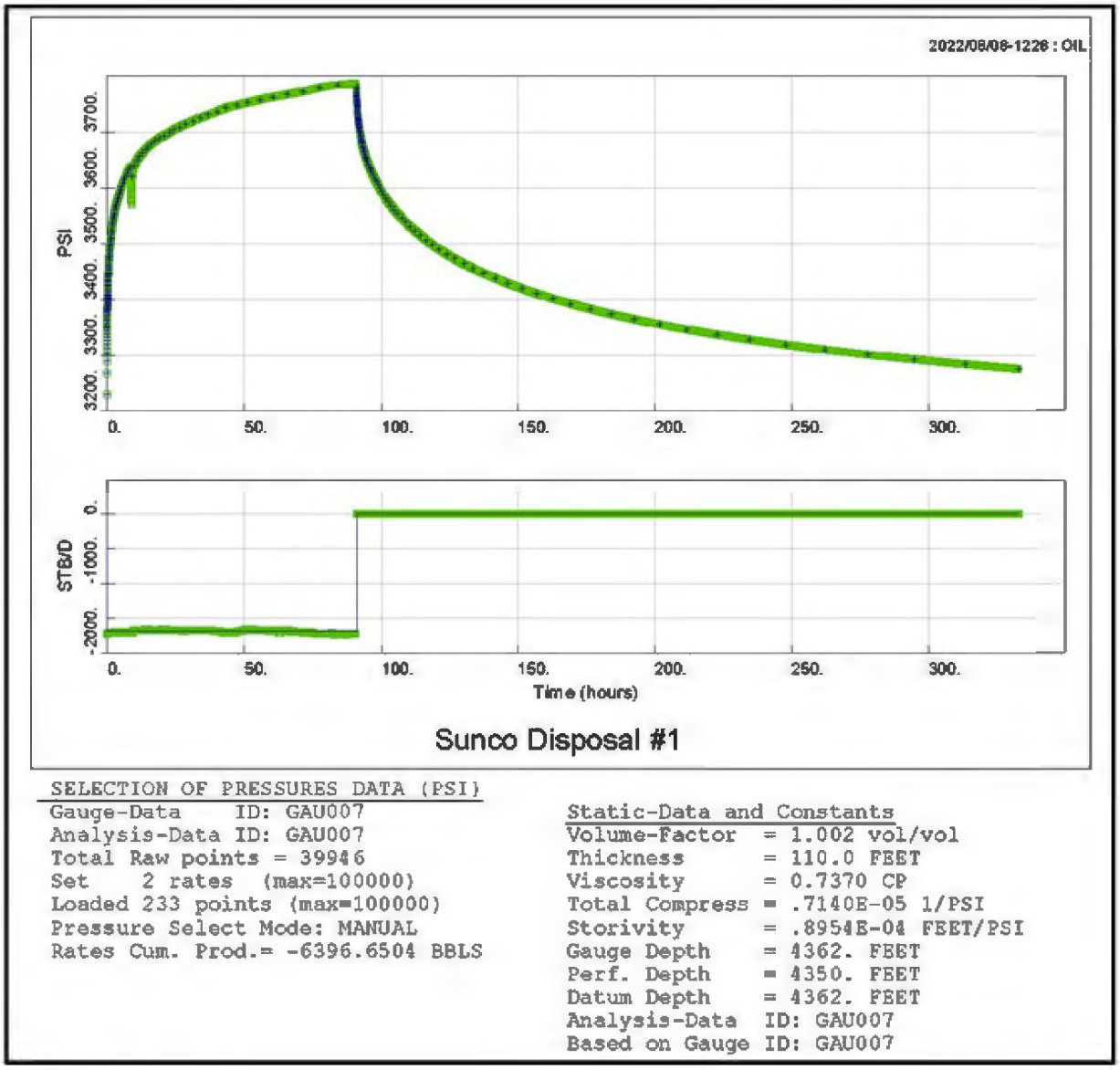
Assumptions:

- Formation fluid properties equal injection water properties due to cumulative volume injected and miscibility of formation water and injection water
- Reservoir temperature = 91 deg F
- Porosity = 0.114 (fraction, estimated from density log)
- Net pay = 110 feet
- Rock compressibility = 4.50E-06 1/psi (correlation)
- Wellbore radius = 0.506 ft
- Wellbore volume total = 34.88 bbls (tubing = 24.79 bbls, casing = 10.09 bbls)
- Wellbore compressibility = injection water compressibility =2.64E-06 1/psi (from Osif correlation)
- Injected water specific gravity = 1.006 (pure water =1.0); density = 8.392 lb./gal, TDS = 15,500 mg/L
- Injected water FVF = 1.0023 rb/stb (McCain correlation)
- Injected water viscosity = 0.737 cp (McCain correlation)

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BOTTOM HOLE GAUGE PRESSURE & RATE DATA PLOT:

This plot shows the raw data from the bottom hole pressure gauge and the injection rate data.





BOTTOM HOLE GAUGE DERIVATIVE PLOT:

Conclusions: The behavior of the derivative curve is affected by the wellbore fill, the wellbore storage and the influence of an apparent hydraulic fracture. The derivative analysis was made using a hydraulic fracture reservoir model, with partial penetration, to best calculate the reservoir properties.

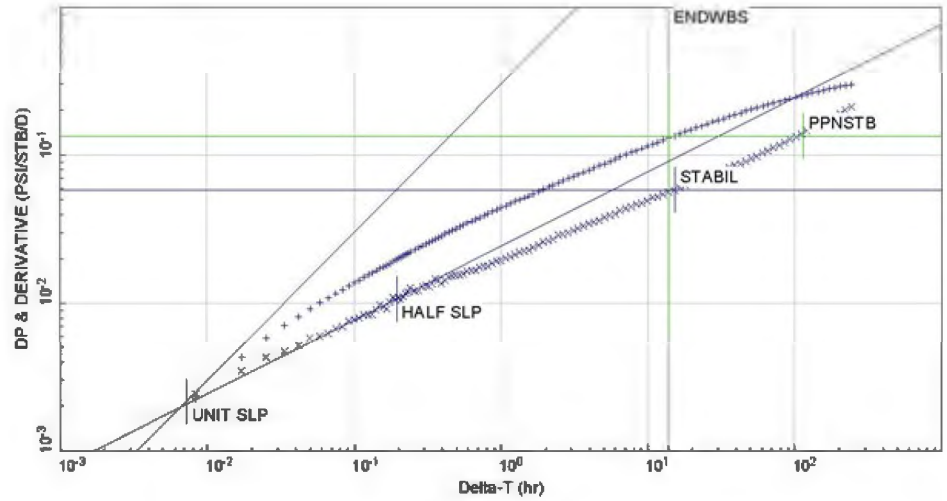
The plot below implies a half-slope as shown in the derivative curve which is characteristic of linear-flow due to a hydraulic-fracture. The calculated permeability is 8.1 md and the calculated half-length for the fracture was 586 feet.

- Estimated Kw (permeability) = 8.1 md
- Estimated skin = -5.3
- Fracture half-length = 586 feet
- Estimated extrapolated pressure = 3,361 psig

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DERIVATIVE PLOT: HYDRAULIC FRACTURE BASIS

2022/08/12-0734 ; OIL



Sunco Disposal #1

Partial Penetration Vertical Fracture

well. storage	= 0.140 BBLS/PSI
skin	= -5.31
permeability	= 8.08 MD
Perm-Thickness	= 889. MD-FEET
Half.Length	= 586. FEET
Hp/Heff	= 0.435
Eff. Thickness	= 110. FEET
P-extrap.	= 3360.53 PSI
R(inv) at 15.09 hr	= 456. FEET
Smoothing Coef	= 0.,0.

Static-Data and Constants

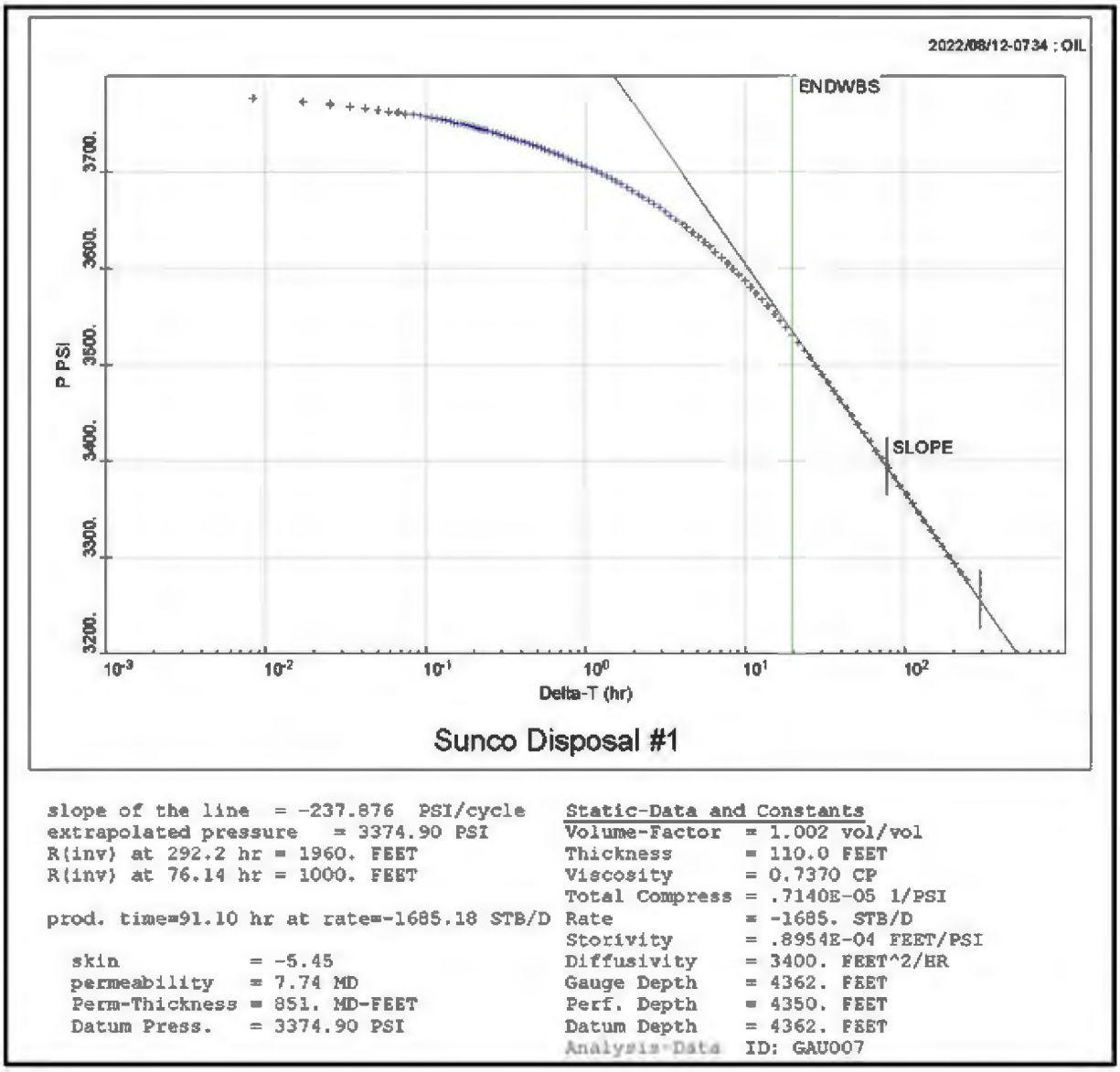
Volume-Factor	= 1.002 vol/vol
Thickness	= 110.0 FEET
Viscosity	= 0.7370 CP
Total Compress	= .7140E-05 1/PSI
Rate	= -1685. STB/D
Storivity	= .8954E-04 FEET/PSI
Diffusivity	= 3551. FEET^2/HR
Gauge Depth	= 4362. FEET
Perf. Depth	= 4350. FEET
Datum Depth	= 4362. FEET
Analysis-Data	ID: GAU007
Based on Gauge	ID: GAU007
PFA Starts:	2022-08-08 12:28:55
PFA Ends :	2022-08-22 09:21:25



BOTTOM HOLE GAUGE MDH PLOT:

Conclusions: The MDH stabilized flow period was reached relatively late in the conventional straight-line extrapolation for the extrapolated pressure, however the MDH values do appear reasonable.

- Estimated extrapolated pressure = 3,375 psig
- Estimated Kw (permeability) = 7.7 md
- Estimated skin = -5.5
- Radius of investigation = 1,960 feet

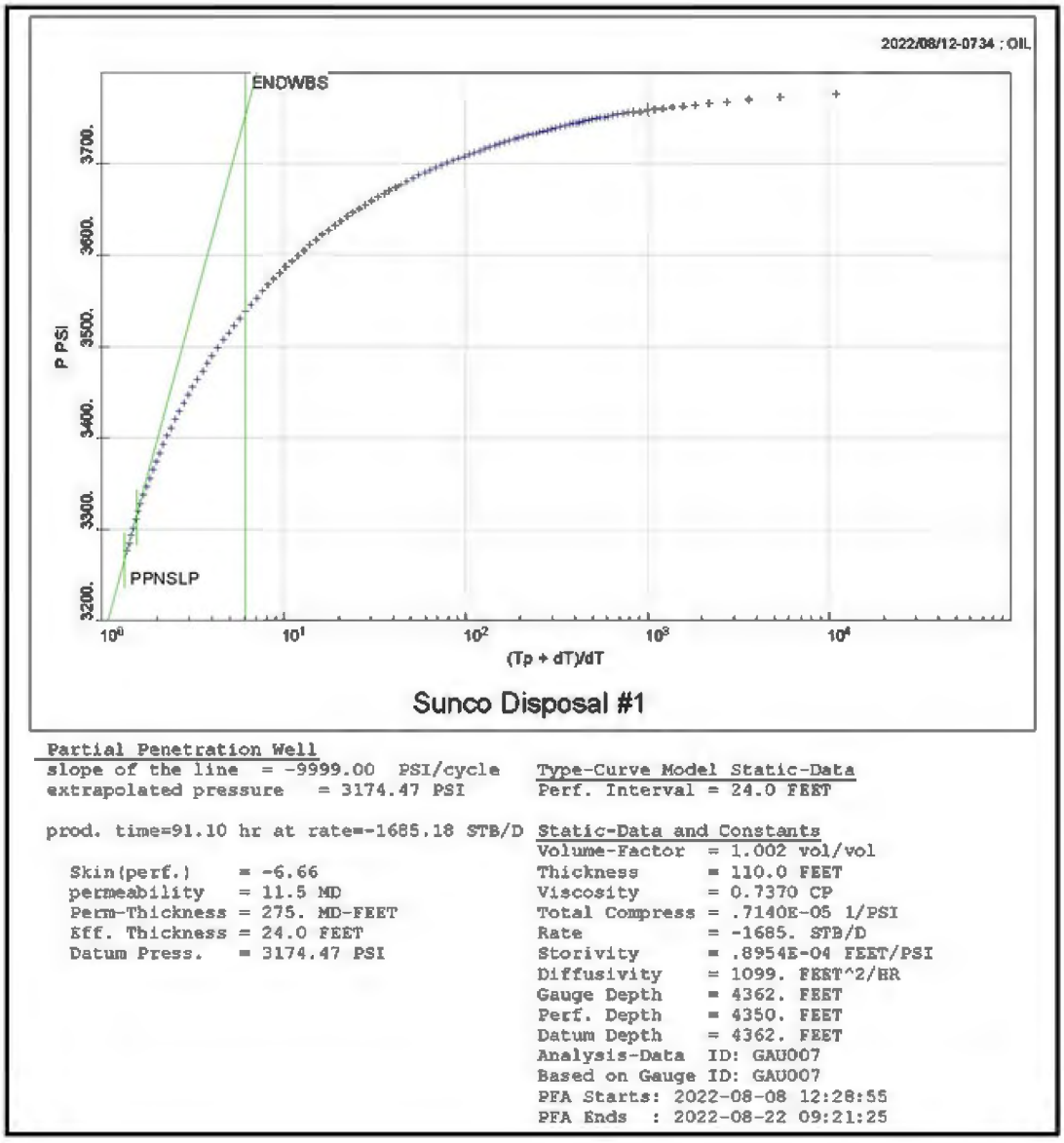




BOTTOM HOLE GAUGE HORNER PLOT:

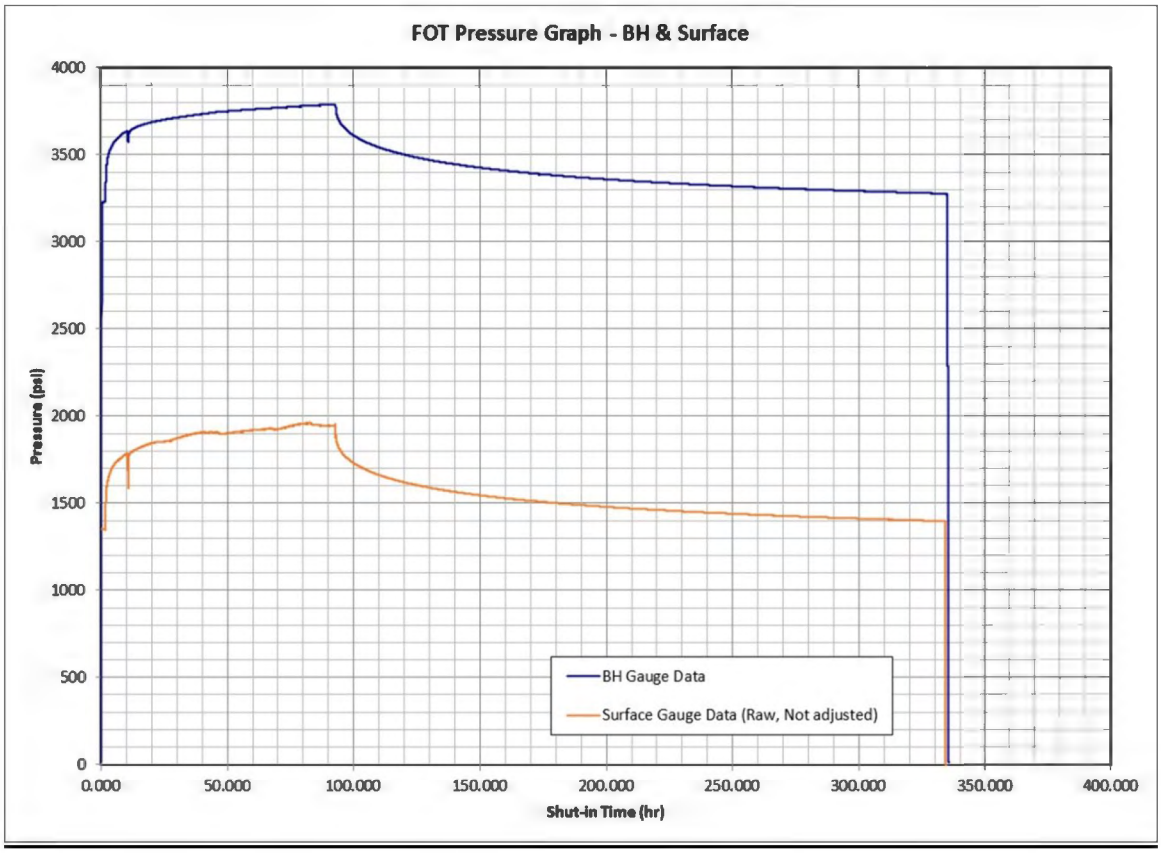
Conclusions: The stabilized flow period was reached late in the conventional straight-line extrapolation; however, the calculated reservoir parameters do appear reasonable.

- Estimated extrapolated pressure = 3,174 psig
- Estimated Kw (permeability) = 11.5 md
- Estimated skin = -6.7



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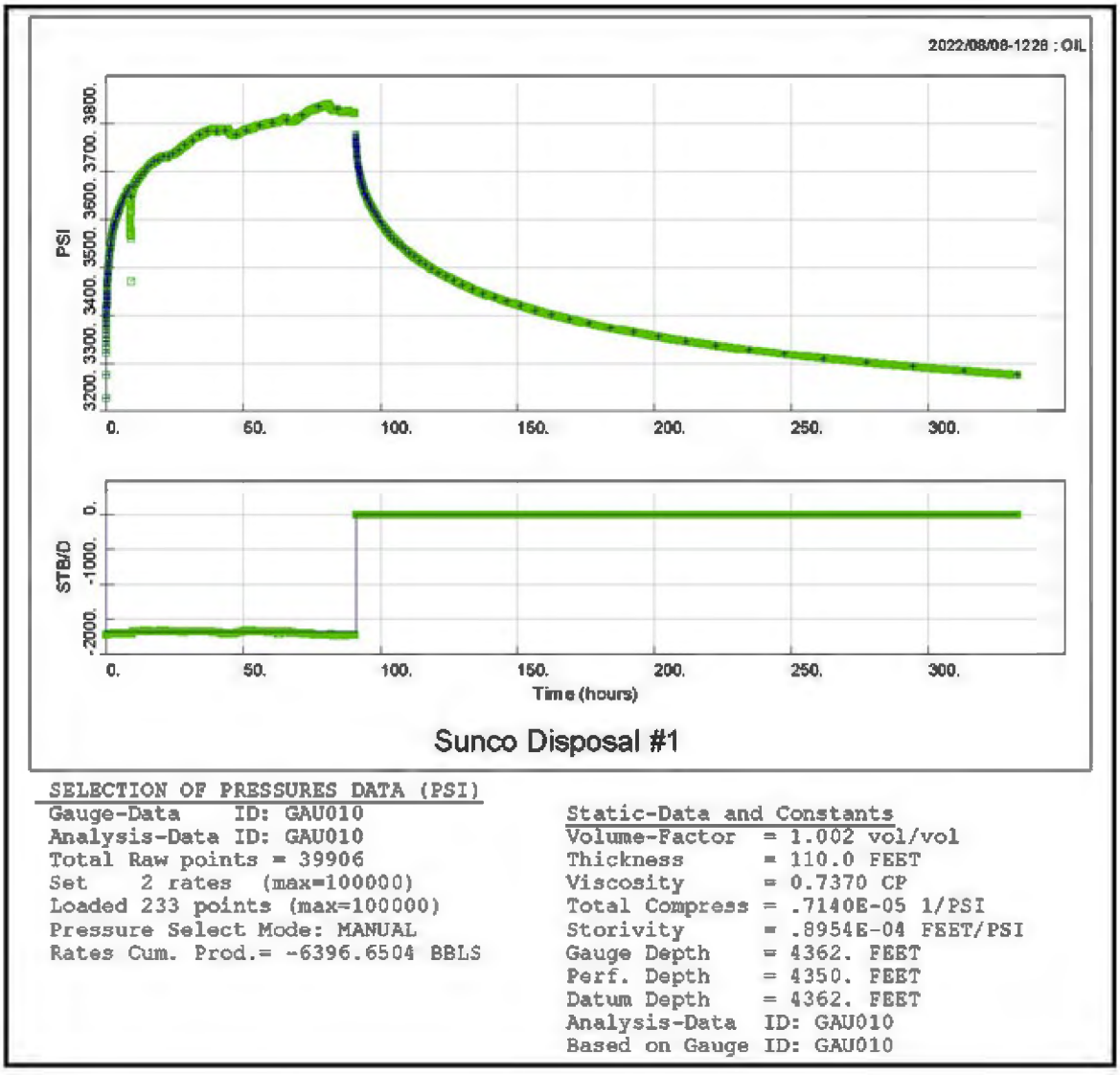
SURFACE GAUGE & BOTTOM HOLE GAUGE PRESSURE COMPARISON PLOT:



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SURFACE GAUGE PRESSURE (ADJUSTED) & RATE DATA PLOT:

This plot shows the pressure data from the surface gauge after adjustment to the BH datum of 4362 feet and the injection rate data.



SELECTION OF PRESSURES DATA (PSI)
Gauge-Data ID: GAU010
Analysis-Data ID: GAU010
Total Raw points = 39906
Set 2 rates (max=100000)
Loaded 233 points (max=100000)
Pressure Select Mode: MANUAL
Rates Cum. Prod.= -6396.6504 BBLS

Static-Data and Constants
Volume-Factor = 1.002 vol/vol
Thickness = 110.0 FEET
Viscosity = 0.7370 CP
Total Compress = .7140E-05 1/PSI
Storivity = .8954E-04 FEET/PSI
Gauge Depth = 4362. FEET
Perf. Depth = 4350. FEET
Datum Depth = 4362. FEET
Analysis-Data ID: GAU010
Based on Gauge ID: GAU010



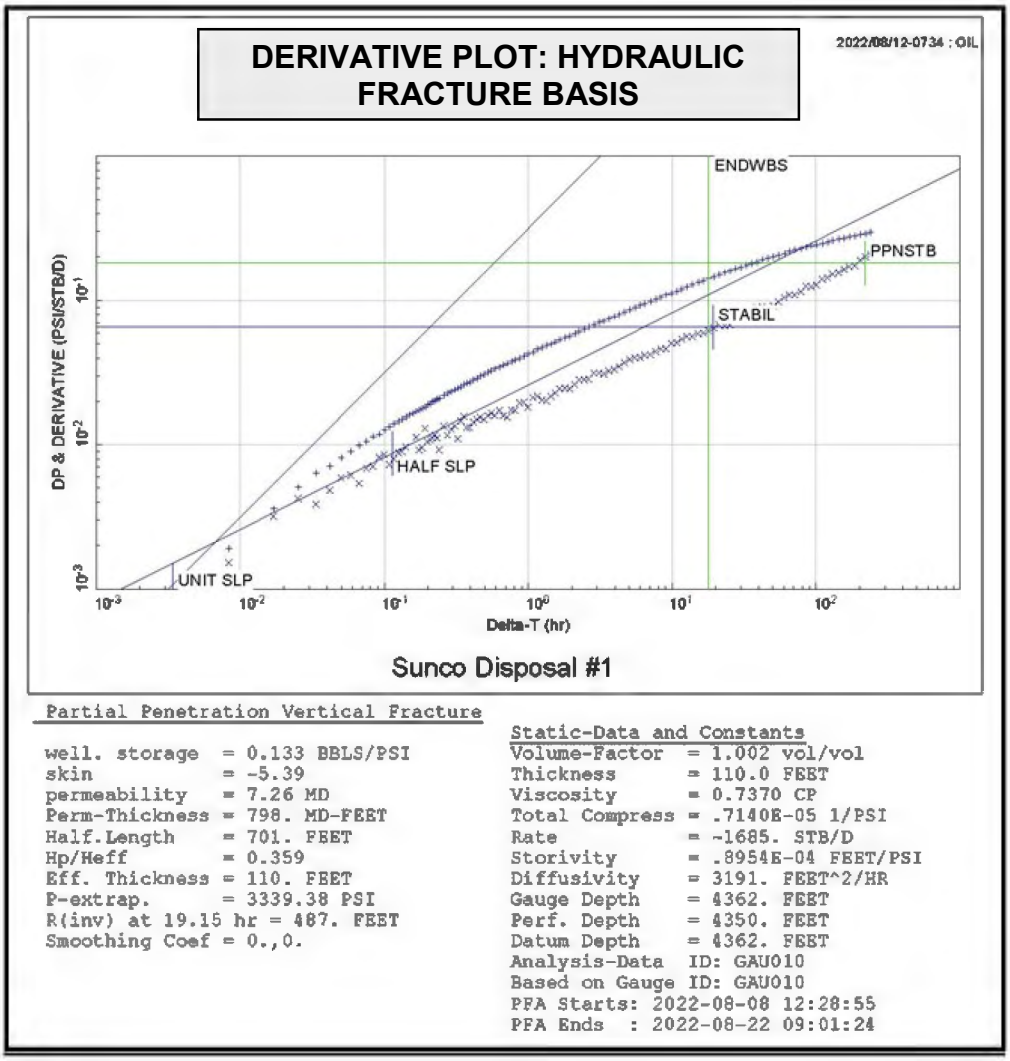
International Reservoir Technologies, Inc.

SURFACE GAUGE PRESSURE (ADJUSTED) DERIVATIVE PLOT:

Conclusions: As with the BH gauge data, the behavior of the derivative curve is affected by the wellbore fill, the wellbore storage, and the influence of an apparent hydraulic fracture. Again, the derivative analysis was made using a hydraulic fracture reservoir model, with partial penetration, to best calculate the reservoir properties.

The plot below implies a half-slope as shown in the derivative curve which is characteristic of linear-flow due to a hydraulic-fracture. The calculated permeability is 7.3 md and the calculated half-length for the fracture was 701 feet.

- Estimated Kw (permeability) = 7.3 md
- Estimated skin = -5.4
- Fracture half-length = 701 feet
- Estimated extrapolated pressure = 3,339 psig

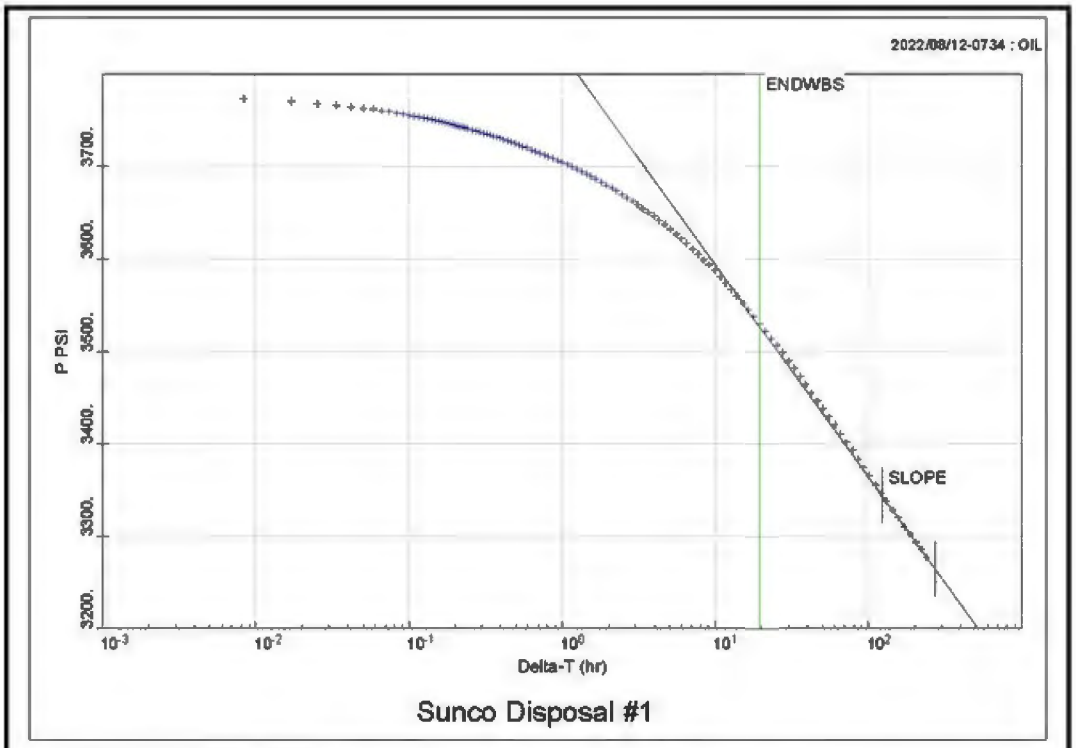




SURFACE GAUGE PRESSURE (ADJUSTED) MDH PLOT:

Conclusions: As with the bottom hole gauge data, the MDH stabilized flow period was reached relatively late in the conventional straight-line extrapolation for the extrapolated pressure, however the MDH values do appear reasonable.

- Estimated extrapolated pressure = 3,372 psig
- Estimated Kw (permeability) = 8.0 md
- Estimated skin = -5.4
- Radius of investigation = 1,930 feet



Partial Penetration Well
slope of the line = -229.288 PSI/cycle
extrapolated pressure = 3372.41 PSI
R(inv) at 272.0 hr = 1930. FEET
R(inv) at 122.6 hr = 1300. FEET

prod. time=91.10 hr at rate=-1685.18 STB/D

Skin(Global) = -5.40
permeability = 8.03 MD
Perm-Thickness = 883. MD-FEET
Datum Press. = 3372.41 PSI

Type-Curve Model Static-Data
Perf. Interval = 24.0 FEET

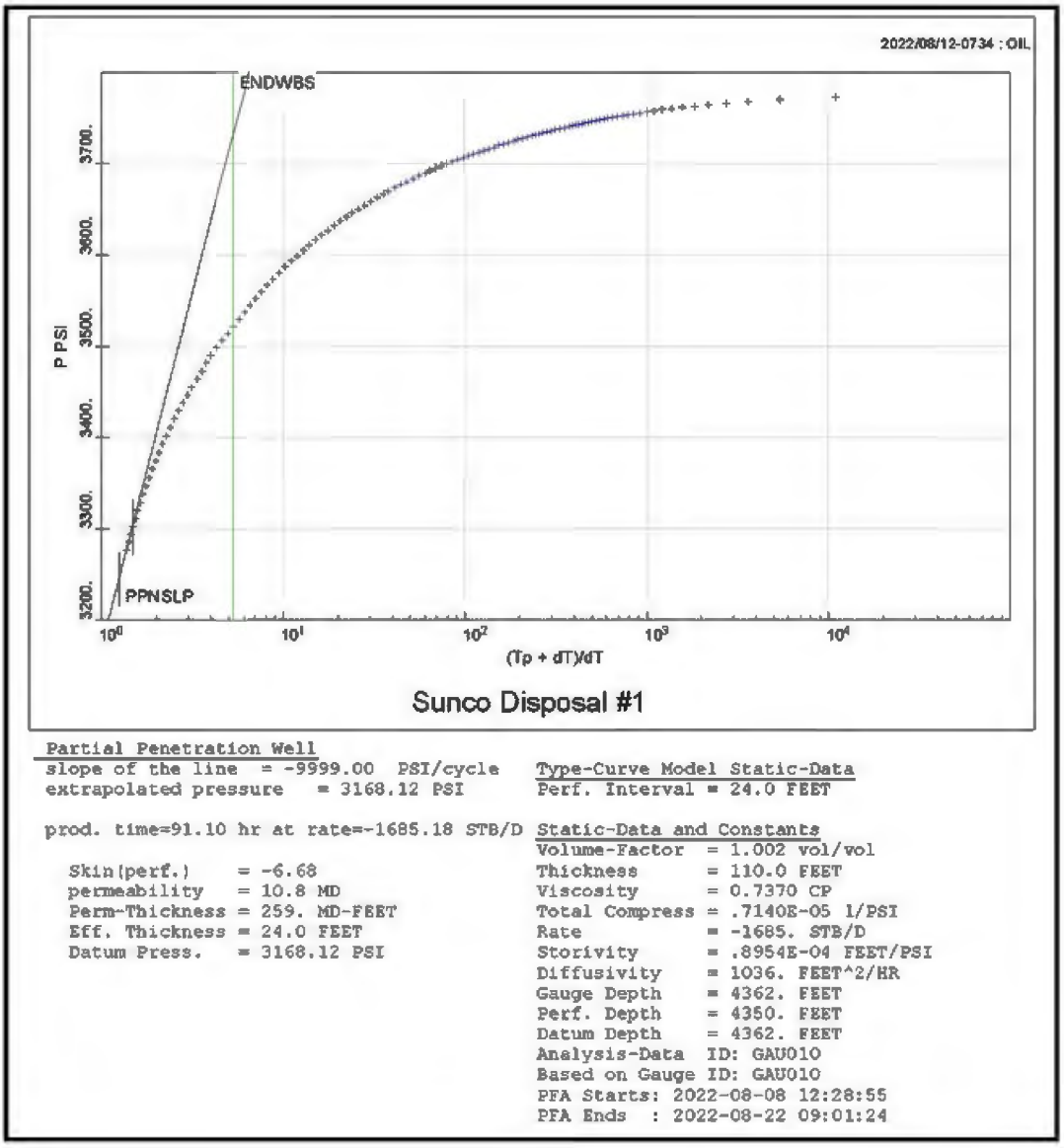
Static-Data and Constants
Volume-Factor = 1.002 vol/vol
Thickness = 110.0 FEET
Viscosity = 0.7370 CP
Total Compress = .7140E-05 1/PSI
Rate = -1685. STB/D
Storivity = .8954E-04 FEET/PSI
Diffusivity = 3528. FEET^2/HR
Gauge Depth = 4362. FEET
Perf. Depth = 4350. FEET
Datum Depth = 4362. FEET
Analysis-Data ID: GAU010
Based on Gauge ID: GAU010
PFA Starts: 2022-08-08 12:28:55
PFA Ends : 2022-08-22 09:01:24

International Reservoir Technologies, Inc.

SURFACE GAUGE PRESSURE (ADJUSTED) HORNER PLOT:

Conclusions: The stabilized flow period was reached late in the conventional straight-line extrapolation; however, the calculated reservoir parameters do appear reasonable.

- Estimated extrapolated pressure = 3,168 psig
- Estimated Kw (permeability) = 10.8 md
- Estimated skin = -6.7

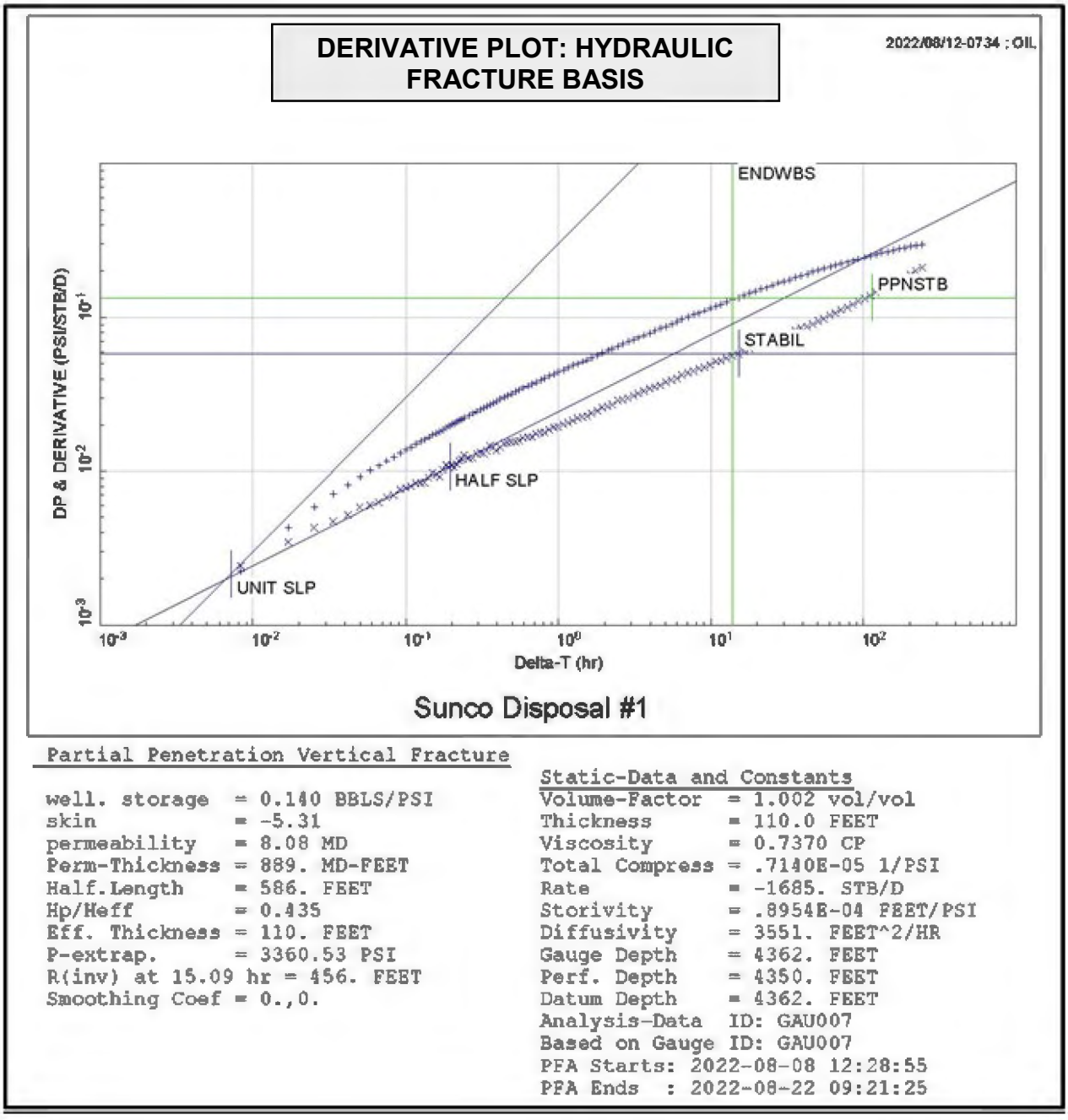




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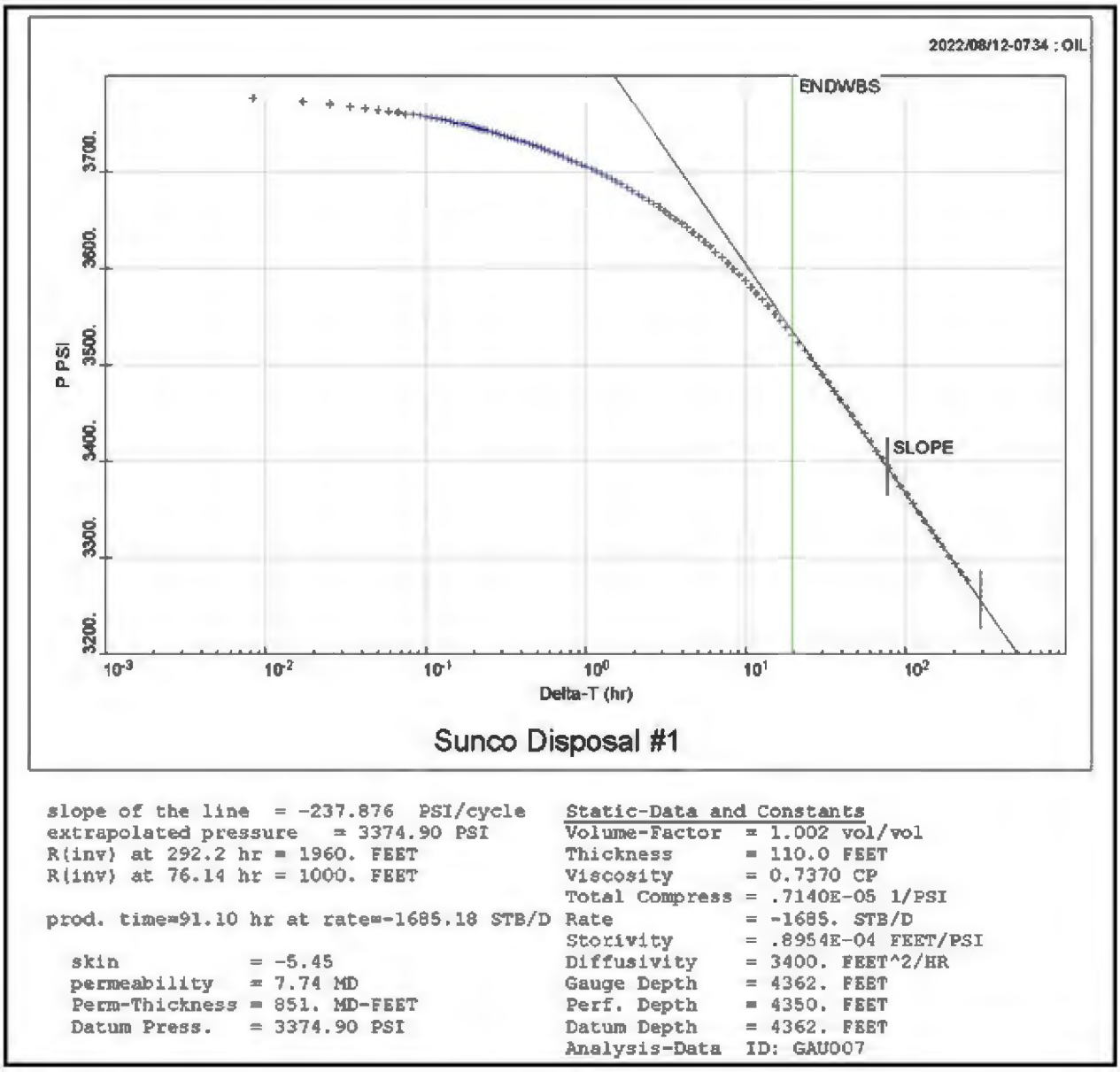
ENLARGED PLOTS:

BOTTOM HOLE GAUGE DERIVATIVE PLOT:



International Reservoir Technologies, Inc.

BOTTOM HOLE GAUGE MDH PLOT:



slope of the line = -237.876 PSI/cycle
extrapolated pressure = 3374.90 PSI
R(inv) at 292.2 hr = 1960. FEET
R(inv) at 76.14 hr = 1000. FEET

prod. time=91.10 hr at rate=-1685.18 STB/D

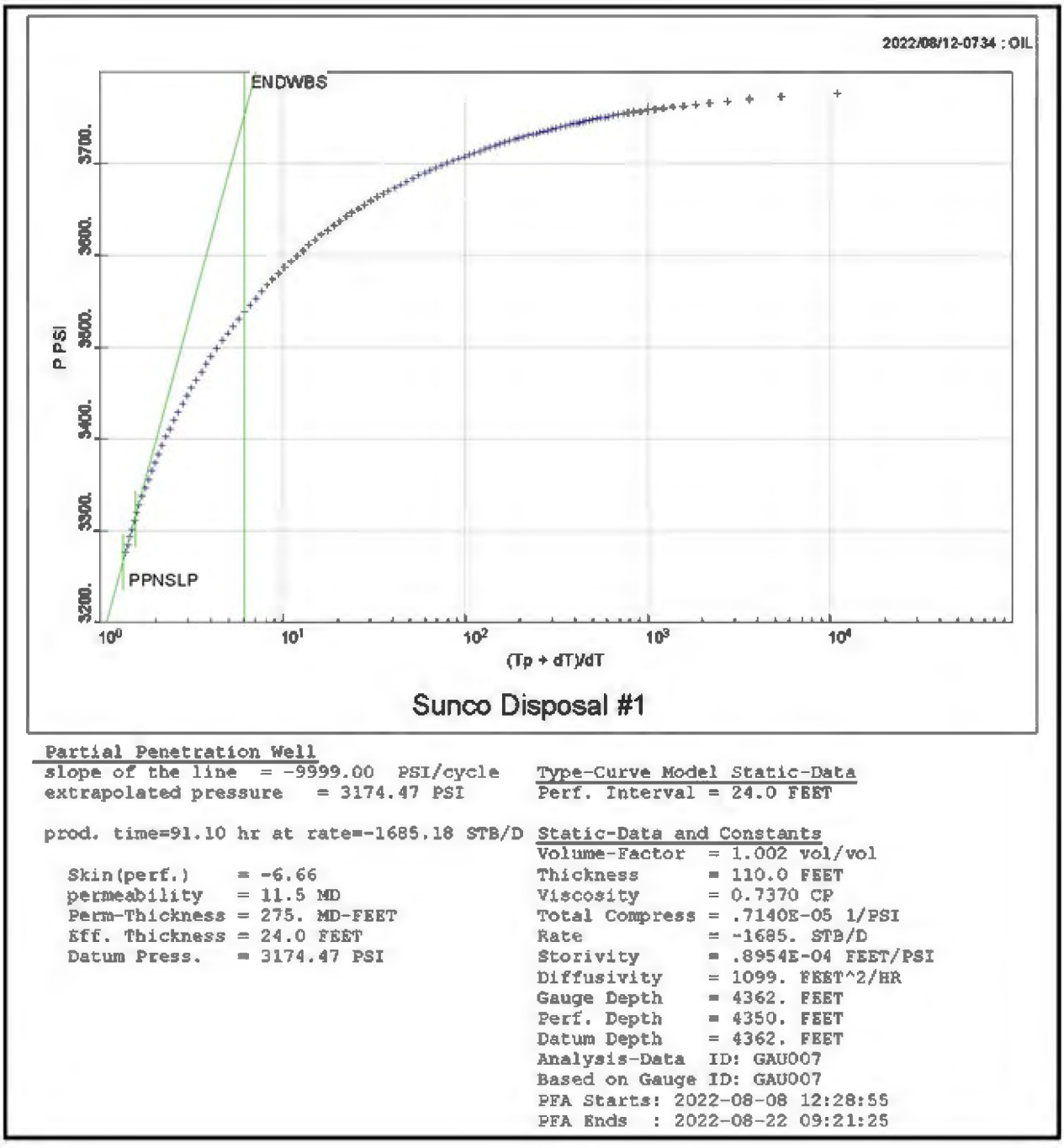
skin	= -5.45
permeability	= 7.74 MD
Perm-Thickness	= 851. MD-FEET
Datum Press.	= 3374.90 PSI

Static-Data and Constants

Volume-Factor	= 1.002 vol/vol
Thickness	= 110.0 FEET
Viscosity	= 0.7370 CP
Total Compress	= .7140E-05 1/PSI
Rate	= -1685. STB/D
Storivity	= .8954E-04 FEET/PSI
Diffusivity	= 3400. FEET^2/HR
Gauge Depth	= 4362. FEET
Perf. Depth	= 4350. FEET
Datum Depth	= 4362. FEET
Analysis-Data	ID: GAU007

International Reservoir Technologies, Inc.

BOTTOM HOLE GAUGE HORNER PLOT:



Partial Penetration Well
slope of the line = -9999.00 PSI/cycle
extrapolated pressure = 3174.47 PSI

prod. time=91.10 hr at rate=-1685.18 STB/D

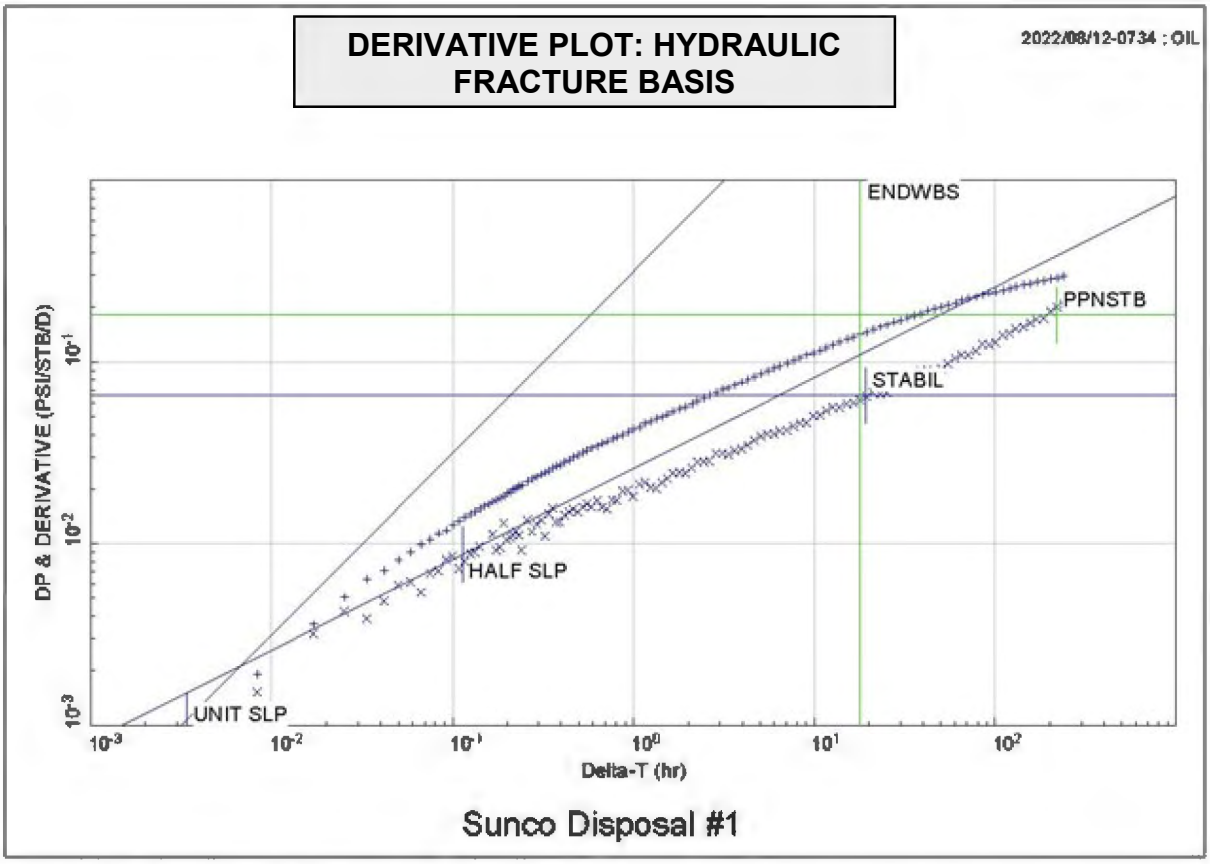
Skin(perf.) = -6.66
permeability = 11.5 MD
Perm-Thickness = 275. MD-FEET
Eff. Thickness = 24.0 FEET
Datum Press. = 3174.47 PSI

Type-Curve Model Static-Data
Perf. Interval = 24.0 FEET

Static-Data and Constants
Volume-Factor = 1.002 vol/vol
Thickness = 110.0 FEET
Viscosity = 0.7370 CP
Total Compress = .7140E-05 1/PSI
Rate = -1685. STB/D
Storivity = .8954E-04 FEET/PSI
Diffusivity = 1099. FEET^2/HR
Gauge Depth = 4362. FEET
Perf. Depth = 4350. FEET
Datum Depth = 4362. FEET
Analysis-Data ID: GAU007
Based on Gauge ID: GAU007
PFA Starts: 2022-08-08 12:28:55
PFA Ends : 2022-08-22 09:21:25

International Reservoir Technologies, Inc.

SURFACE GAUGE PRESSURE (ADJUSTED) DERIVATIVE PLOT:



Partial Penetration Vertical Fracture

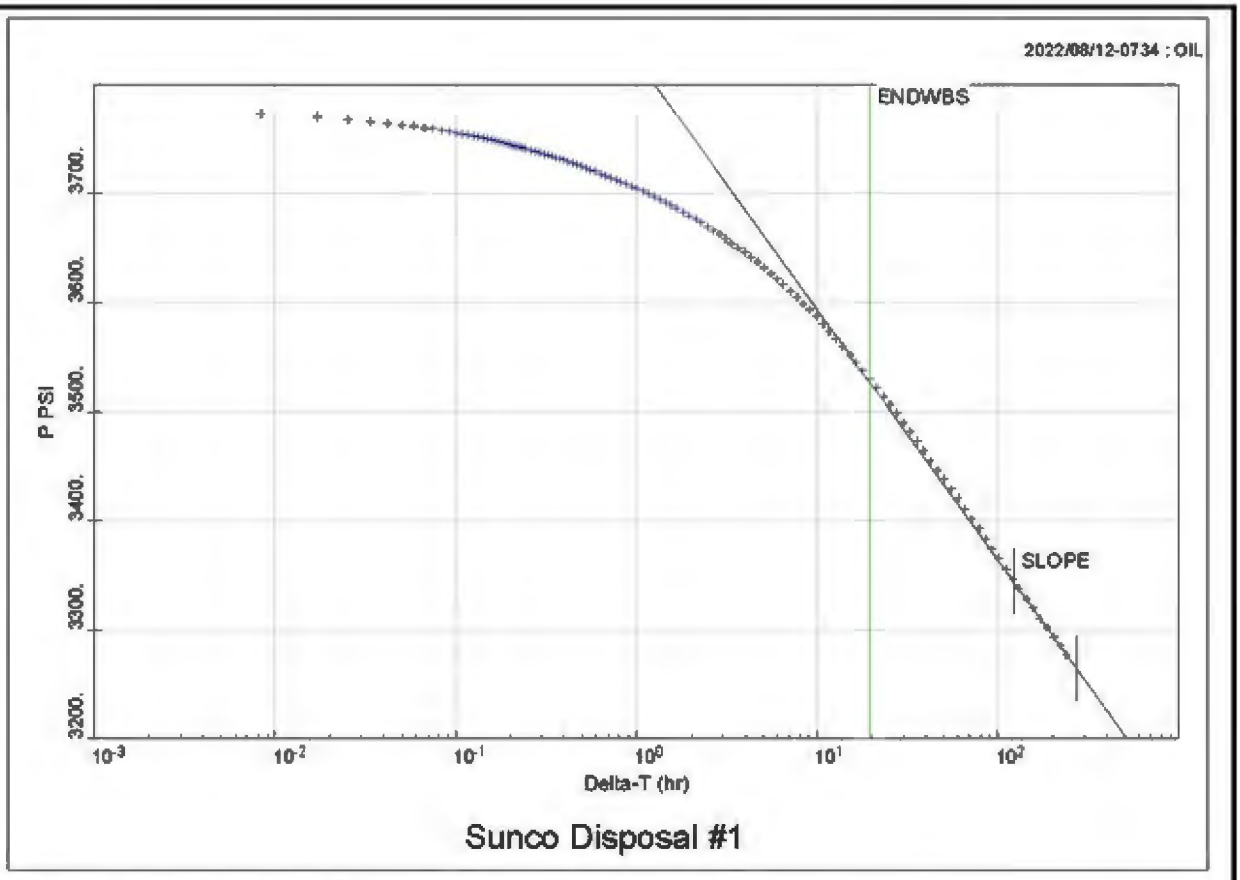
well. storage = 0.133 BBLS/PSI
skin = -5.39
permeability = 7.26 MD
Perm-Thickness = 798. MD-FEET
Half.Length = 701. FEET
Hp/Heff = 0.359
Eff. Thickness = 110. FEET
P-extrap. = 3339.38 PSI
R(inv) at 19.15 hr = 487. FEET
Smoothing Coef = 0.,0.

Static-Data and Constants

Volume-Factor = 1.002 vol/vol
Thickness = 110.0 FEET
Viscosity = 0.7370 CP
Total Compress = .7140E-05 1/PSI
Rate = -1685. STB/D
Storivity = .8954E-04 FEET/PSI
Diffusivity = 3191. FEET^2/HR
Gauge Depth = 4362. FEET
Perf. Depth = 4350. FEET
Datum Depth = 4362. FEET
Analysis-Data ID: GAU010
Based on Gauge ID: GAU010
PFA Starts: 2022-08-08 12:28:55
PFA Ends : 2022-08-22 09:01:24

International Reservoir Technologies, Inc.

SURFACE GAUGE PRESSURE (ADJUSTED) MDH PLOT:



Partial Penetration Well
slope of the line = -229.288 PSI/cycle
extrapolated pressure = 3372.41 PSI
R(inv) at 272.0 hr = 1930. FEET
R(inv) at 122.6 hr = 1300. FEET

prod. time=91.10 hr at rate=-1685.18 STB/D

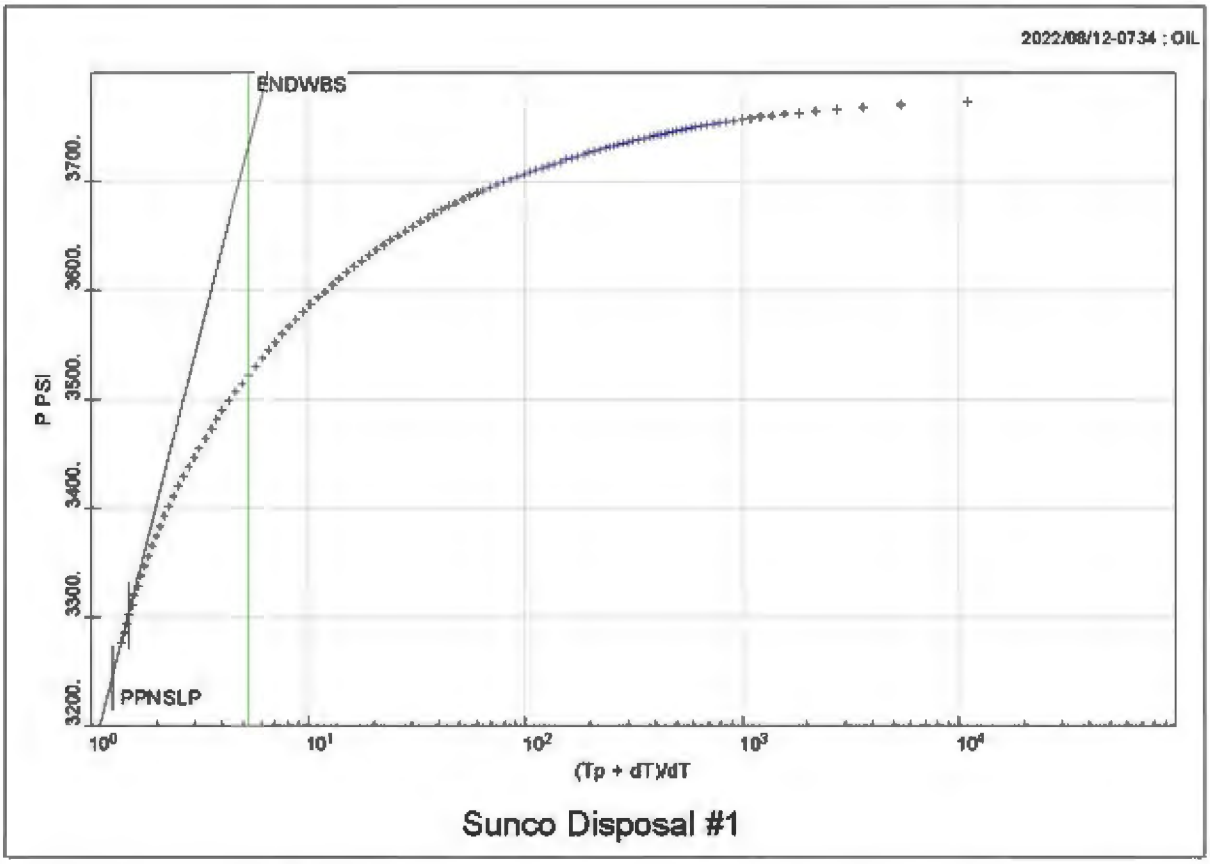
Skin(Global) = -5.40
permeability = 8.03 MD
Perm-Thickness = 883. MD-FEET
Datum Press. = 3372.41 PSI

Type-Curve Model Static-Data
Perf. Interval = 24.0 FEET

Static-Data and Constants
Volume-Factor = 1.002 vol/vol
Thickness = 110.0 FEET
Viscosity = 0.7370 CP
Total Compress = .71405-05 1/PSI
Rate = -1685. STB/D
Storivity = .8954E-04 FEET/PSI
Diffusivity = 3528. FEET^2/HR
Gauge Depth = 4362. FEET
Perf. Depth = 4350. FEET
Datum Depth = 4362. FEET
Analysis-Data ID: GAU010
Based on Gauge ID: GAU010
PFA Starts: 2022-08-08 12:28:55
PFA Ends : 2022-08-22 09:01:24

International Reservoir Technologies, Inc.

SURFACE GAUGE PRESSURE (ADJUSTED) HORNER PLOT:



Partial Penetration Well
slope of the line = -9999.00 PSI/cycle
extrapolated pressure = 3168.12 PSI

prod. time=91.10 hr at rate=-1685.18 STB/D

Skin(perf.) = -6.68
permeability = 10.8 MD
Perm-Thickness = 259. MD-FEET
Eff. Thickness = 24.0 FEET
Datum Press. = 3168.12 PSI

Type-Curve Model Static-Data
Perf. Interval = 24.0 FEET

Static-Data and Constants
Volume-Factor = 1.002 vol/vol
Thickness = 110.0 FEET
Viscosity = 0.7370 CP
Total Compress = .7140E-05 1/PSI
Rate = -1685. STB/D
Storivity = .8954E-04 FEET/PSI
Diffusivity = 1036. FEET^2/HR
Gauge Depth = 4362. FEET
Perf. Depth = 4350. FEET
Datum Depth = 4362. FEET
Analysis-Data ID: GAU010
Based on Gauge ID: GAU010
PFA Starts: 2022-08-08 12:28:55
PFA Ends : 2022-08-22 09:01:24

Results:

The results from the Horner, MDH, and Derivative pressure plots are summarized in the Table 2 below. The results for the different methods were consistent and the average calculated properties were:

1. P* = 3174 psi
2. K = 9.1 md
3. S = -5.8
4. Radius of Investigation = 1960 feet
5. No indication of boundary

Table 1: Calculated Reservoir Properties

Calculated Reservoir Parameters - Bottom Hole Guage				
	Horner Analysis	MDH Plot	Derivative Plot	Average
Estimated Kw (permeability, mD)	11.5	7.7	8.1	9.1
Estimated skin (dimensionless)	-6.7	-5.5	-5.3	-5.8
Extrapolated pressure (psig)	3,174	3,375	3,361	3,303
Fracture half-length (feet)	--	--	586	586
Radius of investigation (feet)	--	1,960	--	1,960

In addition to the bottom hole gauges, transducers at surface collected pressure. Bottom hole pressures were calculated using a gradient of 0.431 psi/foot and FOT results were calculated from the surface data. The surface data results were similar to the bottom hole gauge data. The results from the Horner, MDH, and Derivative pressure plots are summarized in the Table 2 below. The results for the different methods were consistent and the average calculated properties were:

1. P* = 3168 psi
2. K = 8.7 md
3. S = -5.8
4. Radius of Investigation = 1930 feet
5. No indication of boundary

Table 2: Calculated Reservoir Properties Surface Gauges

Calculated Reservoir Parameters - Gauge (Adjusted to BH Datum)				
	Horner Analysis	MDH Plot	Derivative Plot	Average
Estimated Kw (permeability, mD)	10.8	8.0	7.3	8.7
Estimated skin (dimensionless)	-6.7	-5.4	-5.4	-5.8
Extrapolated pressure (psig)	3,168	3,372	3,339	3,293
Fracture half-length (feet)	--	--	701	701
Radius of investigation (feet)	--	1,930	--	1,930

Comparison with past Falloff Tests:

The results from the 2022 Falloff Test were compiled with previous RPE and FOT results from the facility and are shown below in Table 3.

Table 3: Results Comparison

	2022	2021	2020	2019	2018	2017	2016	2015	2010	2009	2008	2007
Rate (bbl/day)	**1684**				3292	3150	3132	3340	4500			
P* (psi)	**3263**	3194*	2968*	2939*	3479	3273	3114	3283	3231	3242	3176	3258
K (md)	**9.1**				10.8	10.4	11.5	15.8	13.6	10.2	20.7	
S	**-5.8**				-6.0	-6.0	-5.93	-5.97	-7.18	-7.23	-6.79	
Radius of Inv (ft)	**1960**				1690	1790	1430	1580	1450	1250	1750	1620
Frac ½ Length (ft)	**586**				598	517	594	467	893	926	596	688
Boundary	**none**				none	none	none	none	648, 1520	755	987	none

Agua Moss did not conduct tests prior to 2015 and is relying on the 2010 report submitted by Key Energy, the past operator, for those results. The following observations were derived from a comparison of the results:

1. The radius of investigation for 2022 was adequate enough to see out beyond all of the previously seen boundaries.
   Note: On 2010 results seems peculiar to have a boundary beyond the Radius of Investigation.
2. The parameters calculated compare well enough with previous FOT parameter to validate the 2022 FOT results.

The raw test data obtain during the 2022 FOT will be kept on file for a period of three (3) years and will be available upon request.

* The pressure shown for 2021 through 2019 is a bottom hole pressure calculated based on surface pressure and a fluid gradient. This pressure is being compared to the extrapolated reservoir pressures from previously completed Falloff Test. The comparison is being used to gauge the current condition of the injection interval to ensure the interval is suitable for continued injection operations.

Conclusions:

Based on the above analysis and results comparison, Agua Moss believes the Sunco SWD #1 2022 FOT was successfully completed. The results do not show indications of concern in continuing the current waste injection operations. In addition, the comparison of results between bottom hole gauges and surface gauges indicate that surface gauges provide a similar result.

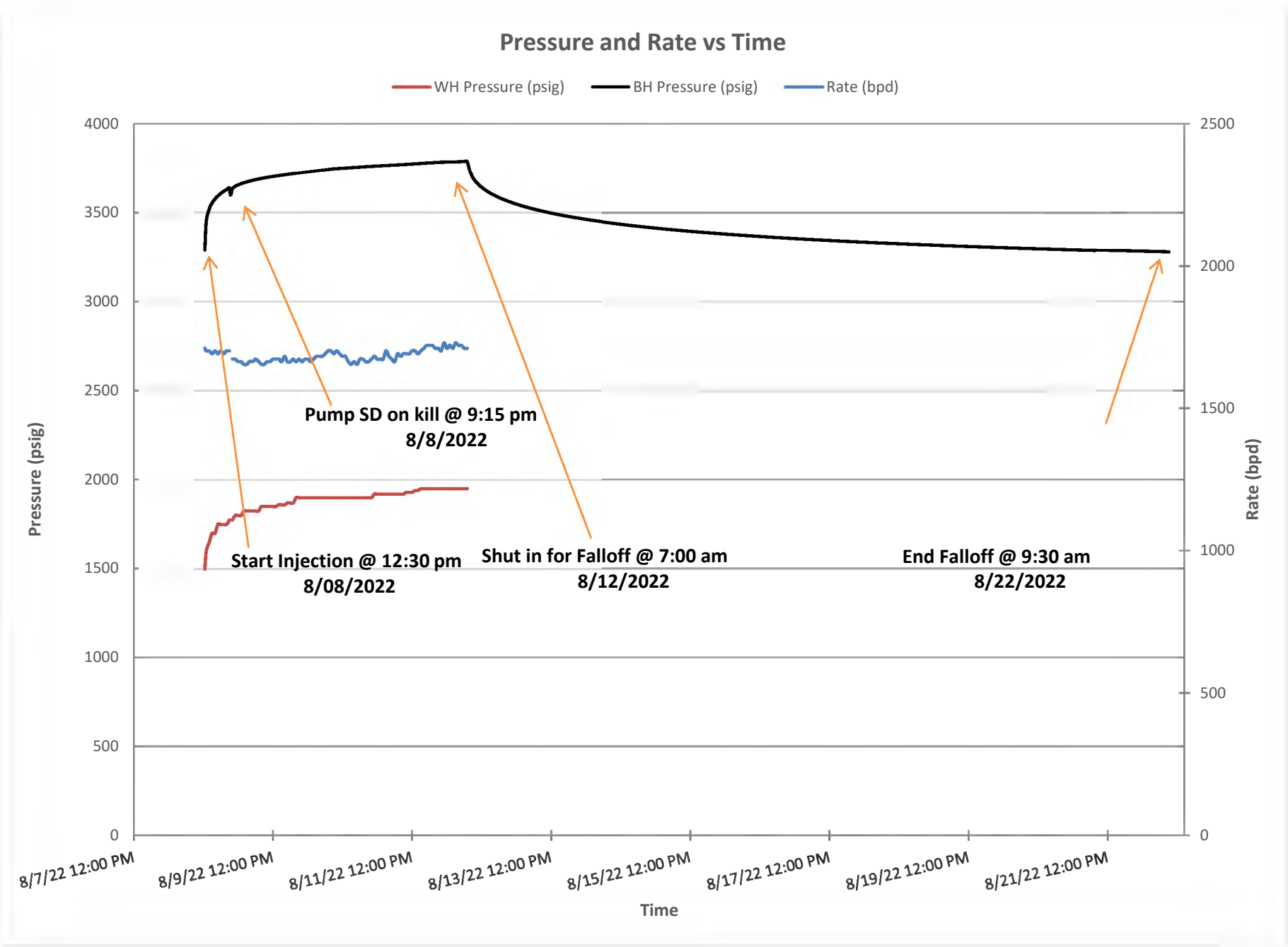


Figure 3 Pressure and Rate vs Time

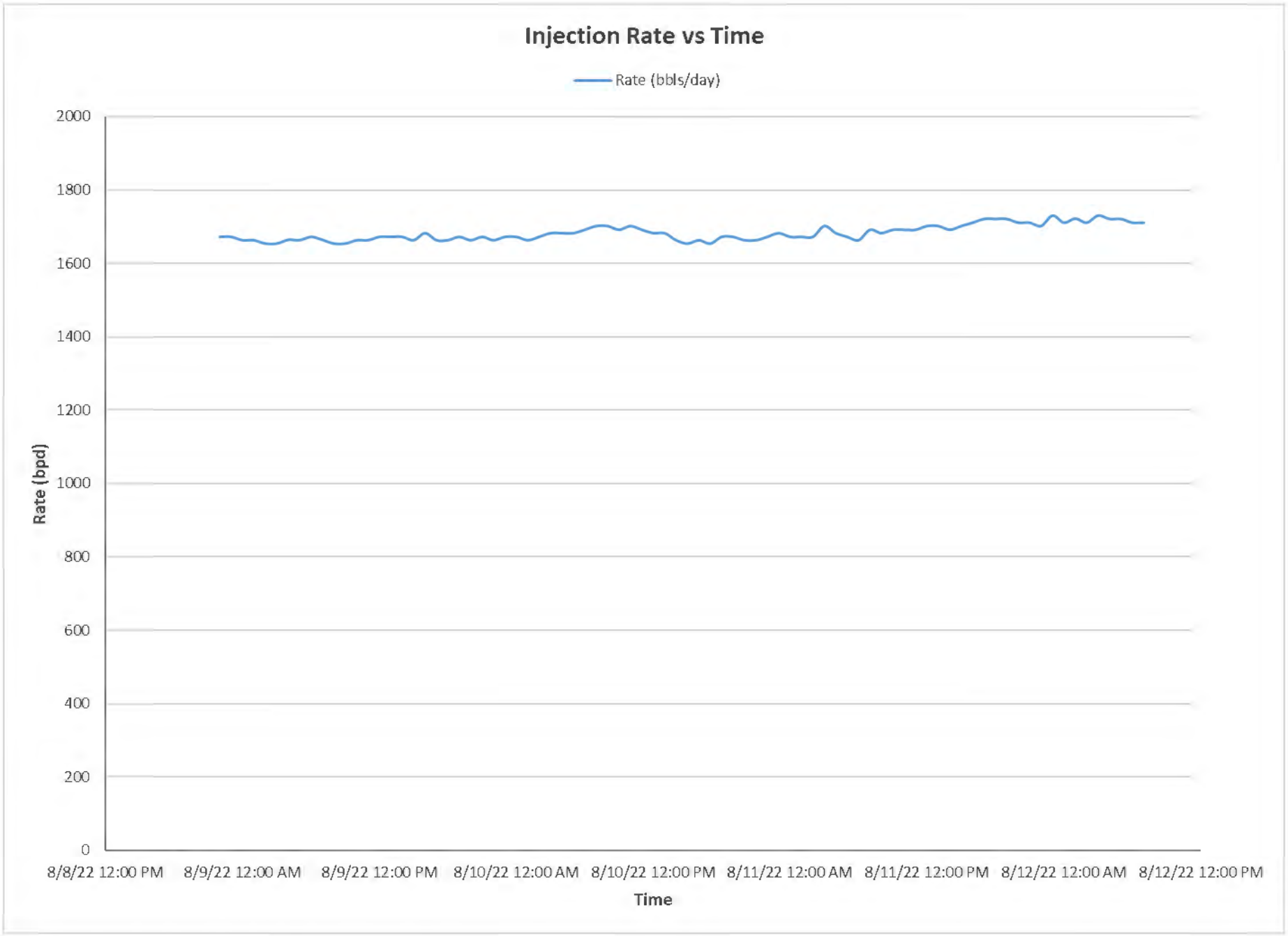


Figure 4 Injection Rate vs Time

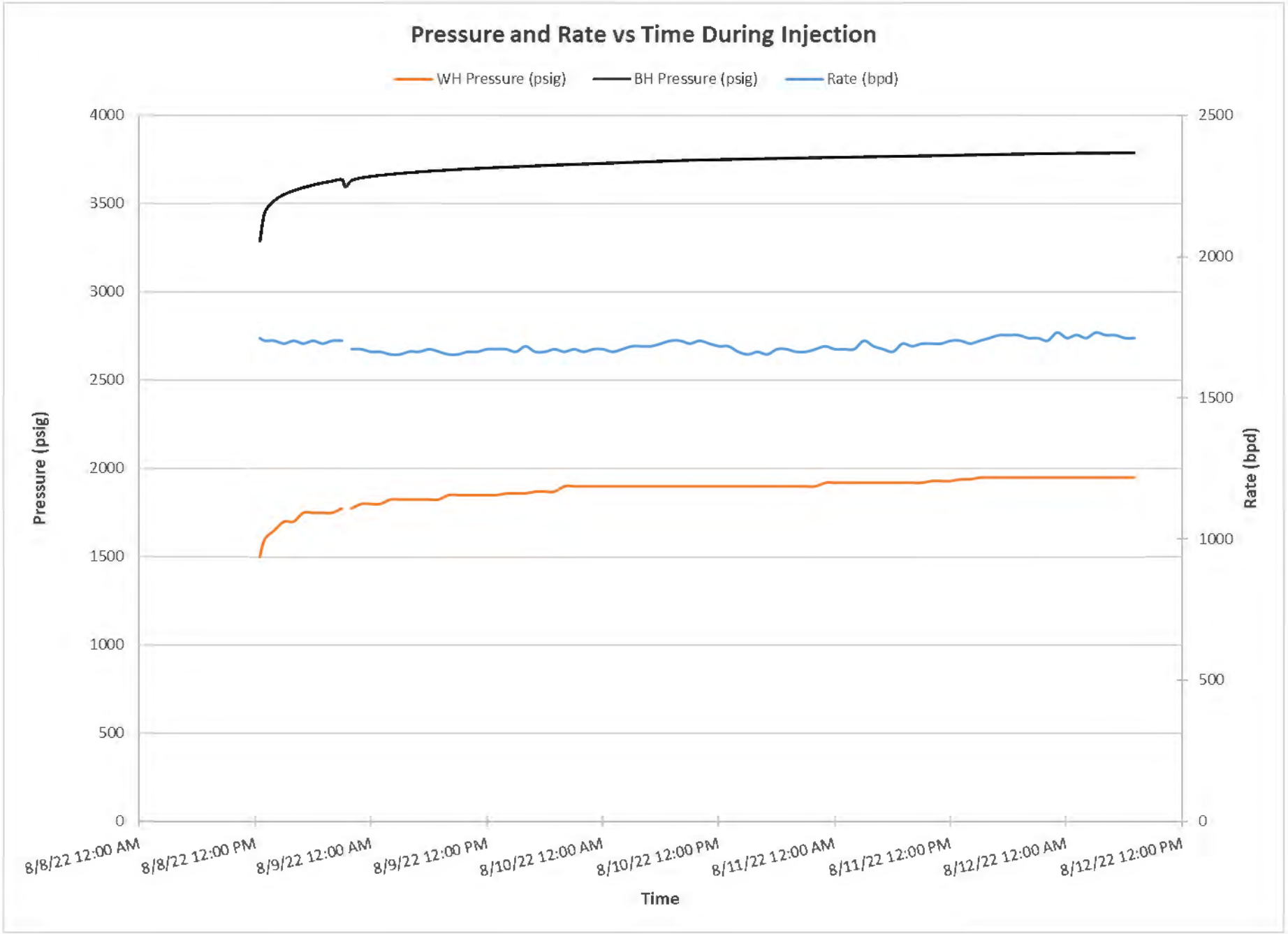


Figure 5 Pressure and Rate vs Time During Injection

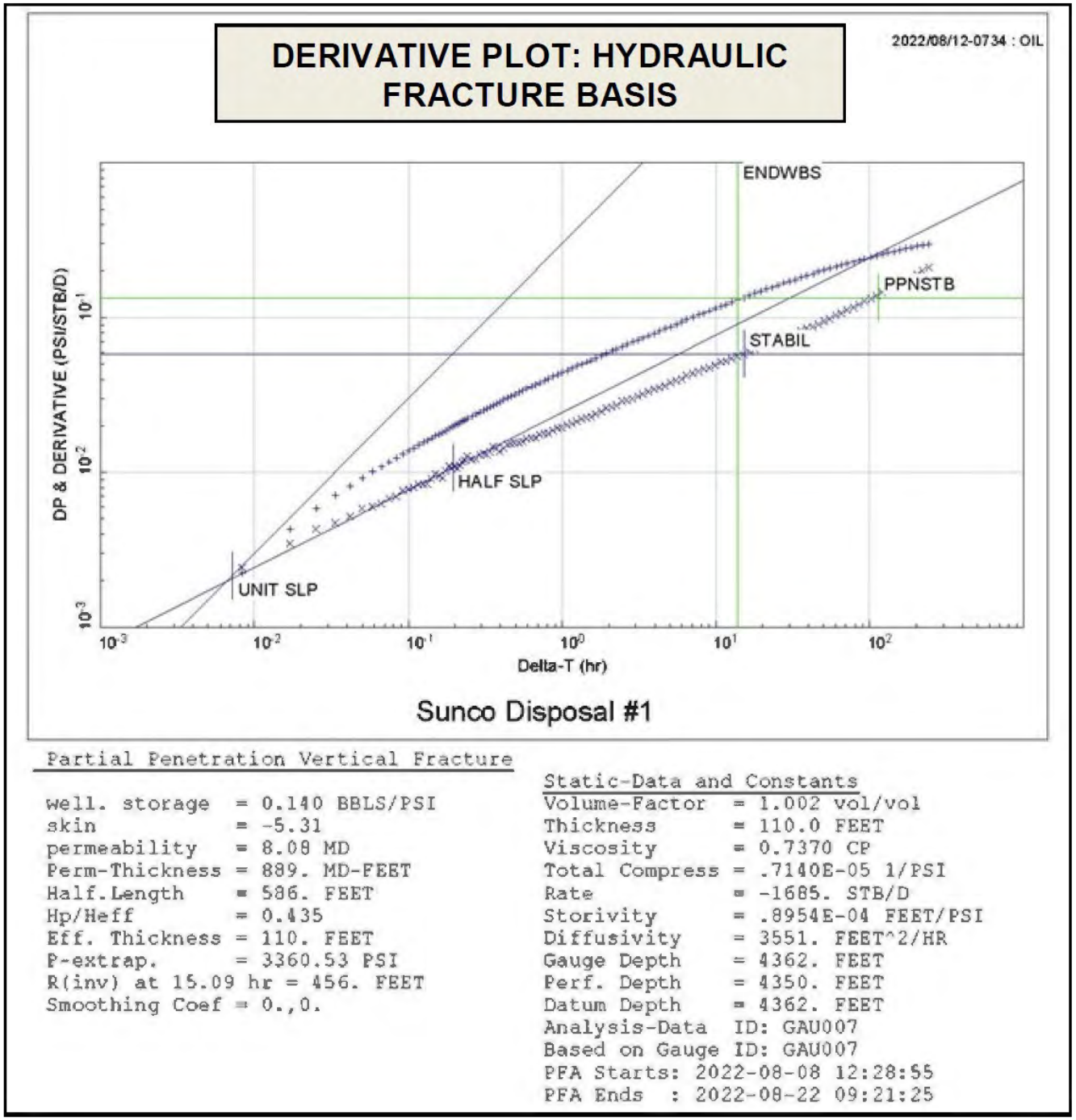


Figure 6 Derivative Plot

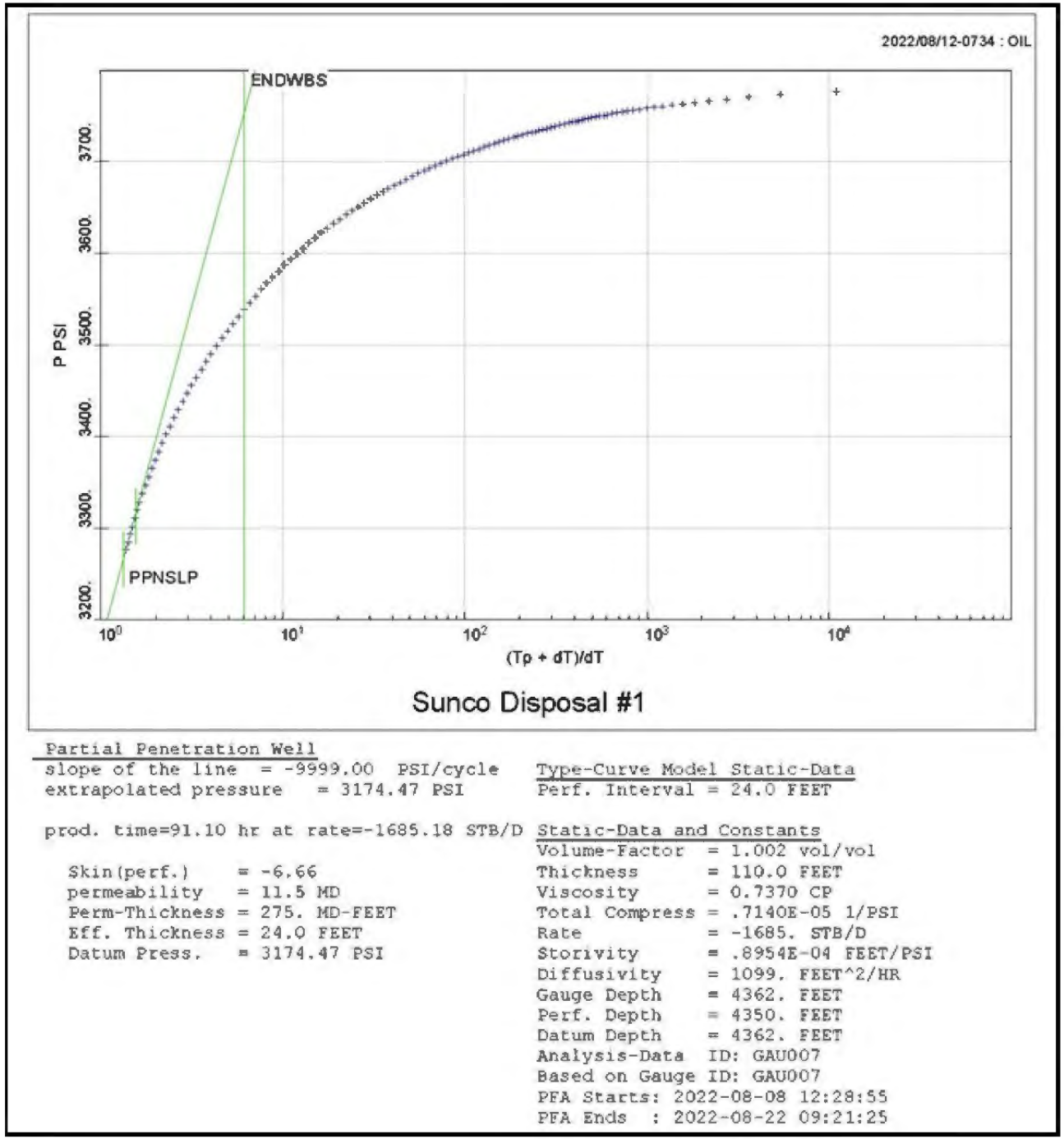


Figure 7 Horner Plot

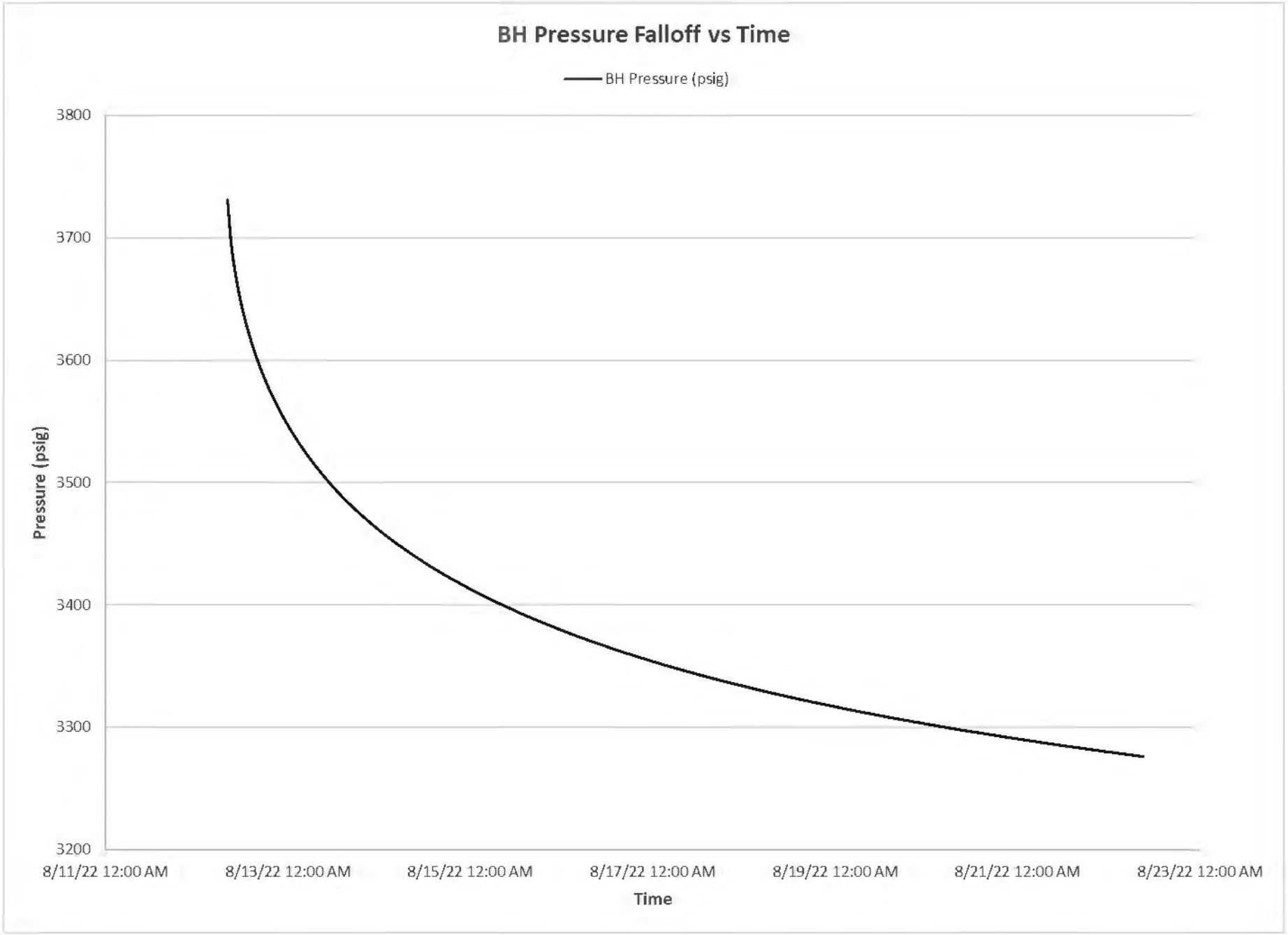


Figure 8 BH Pressure Falloff vs Elapsed Time

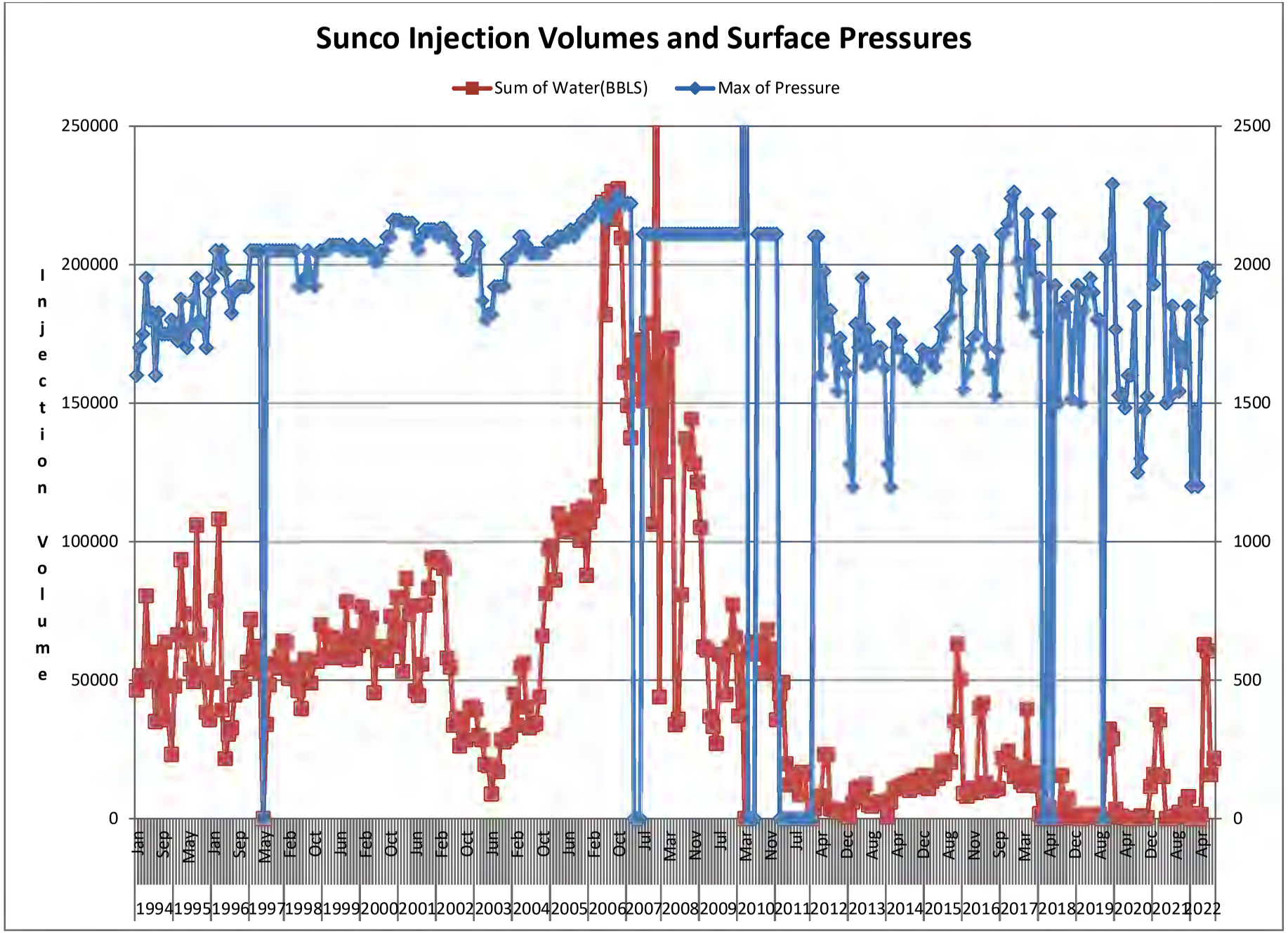
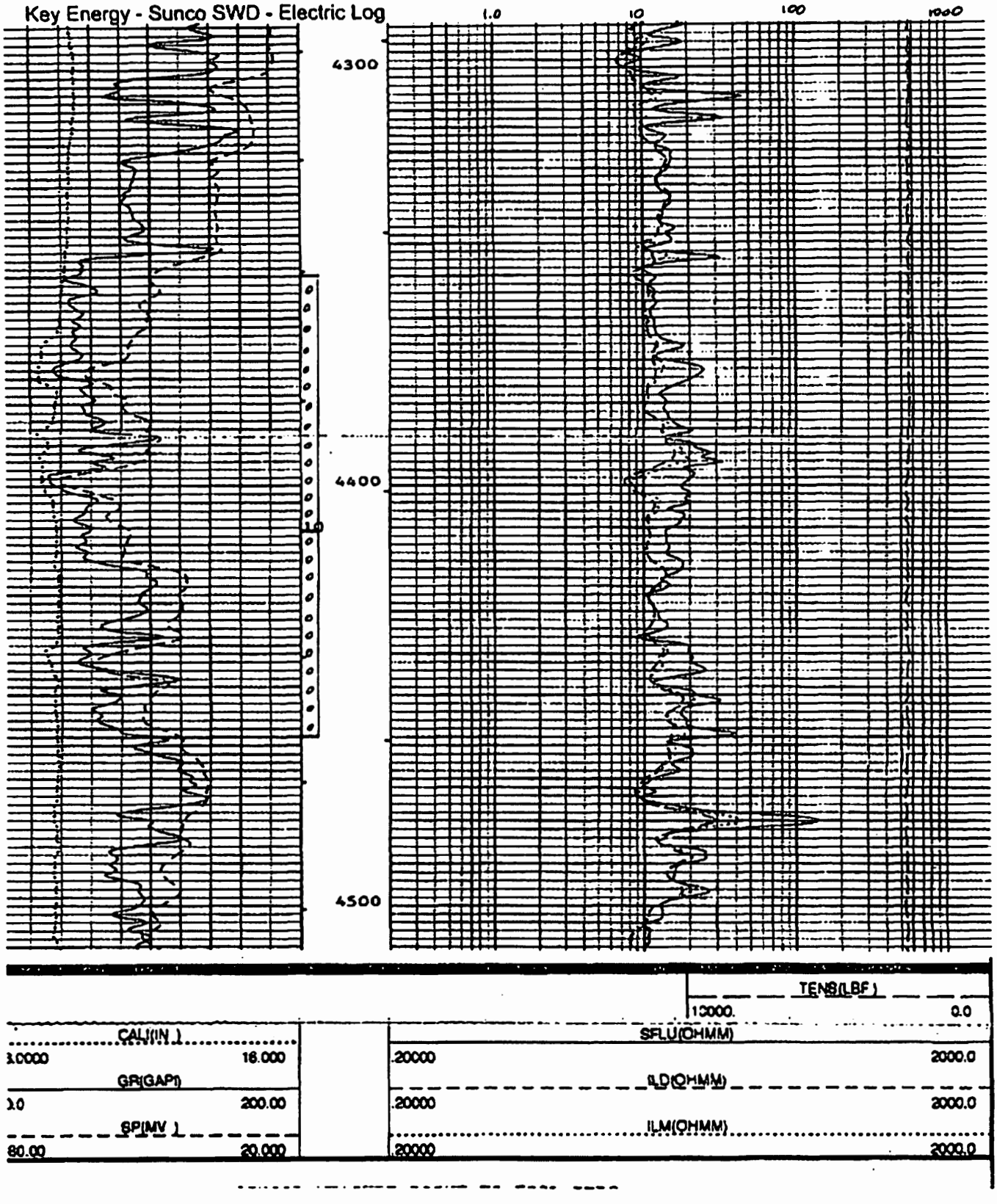
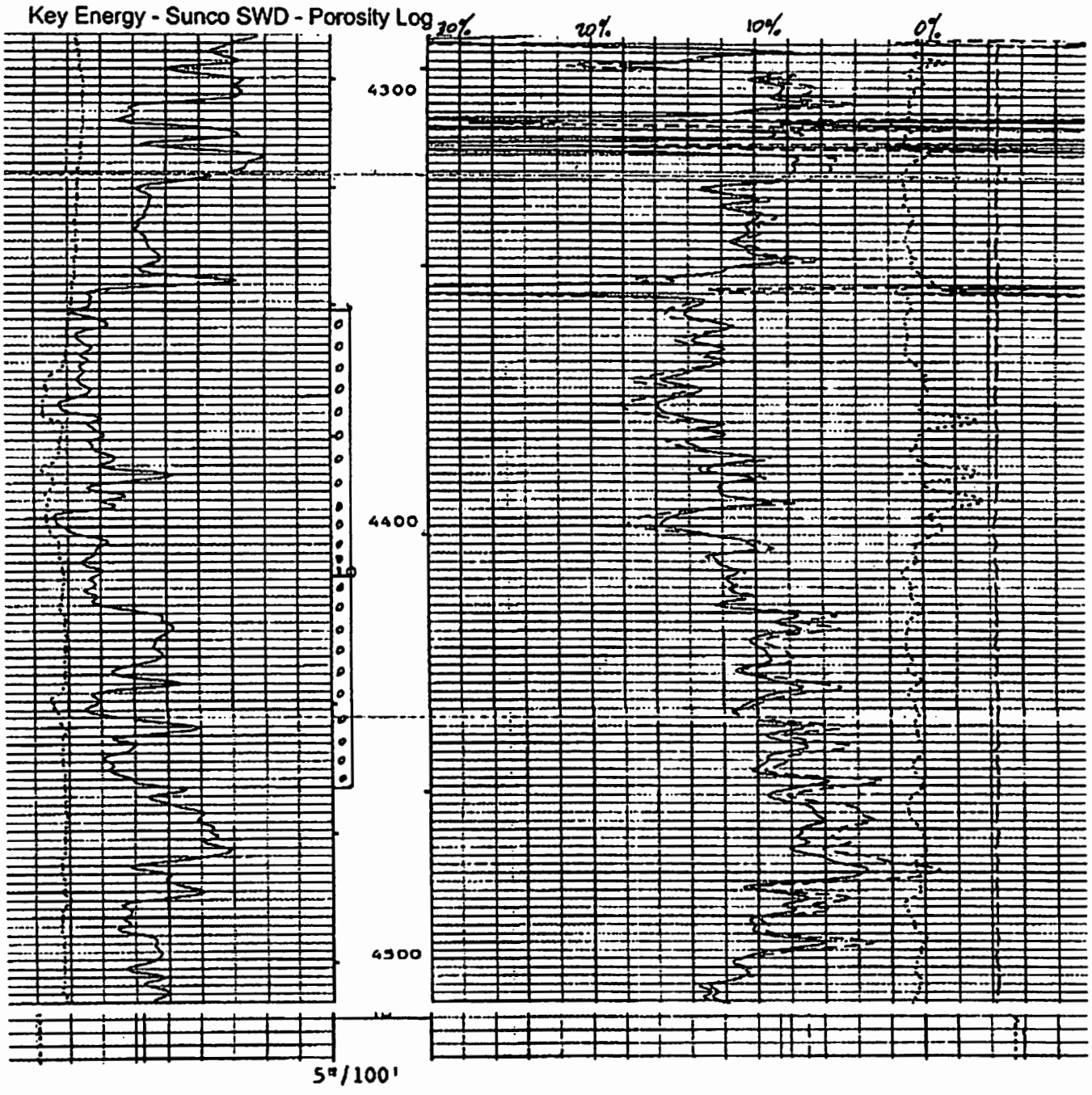
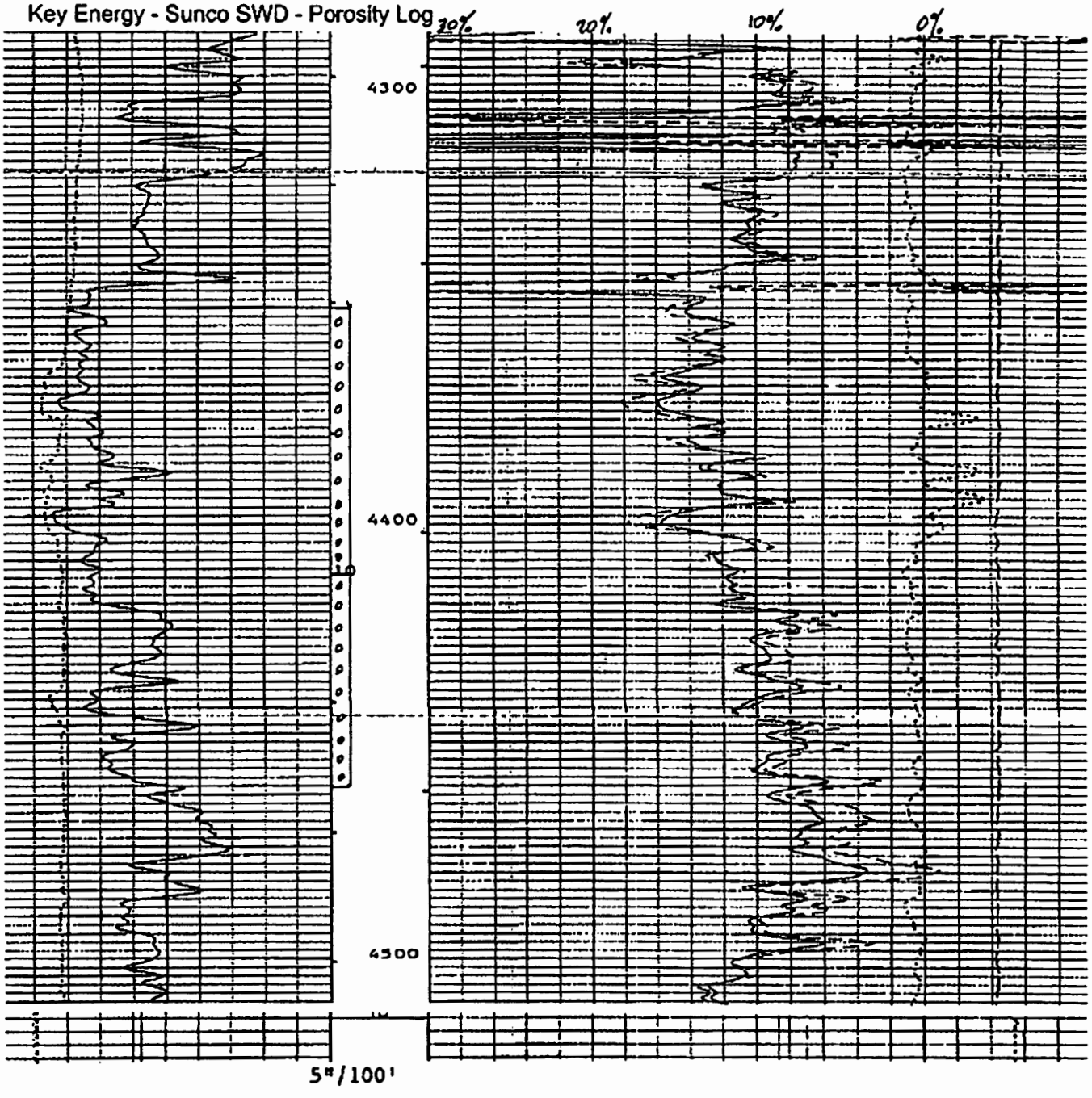


Figure 9 Injection and Pressure Plot


Key Energy - Sunco SWD - Electric Log
1.0
10
100
1000
4300
4400
4500
TENS(LBF)
10000.
0.0
CALI(IN)
16.000
SFLU(OHMM)
2000.0
GR(GAPI)
200.00
ILD(OHMM)
2000.0
SP(MV)
20.000
ILM(OHMM)
2000.0


Key Energy - Sunco SWD - Porosity Log
30%
20%
10%
0%
4300
4400
4500
5"/100'
CP 32.6
FILE 6
01-FEB-1992 20:21
(UP)
DRHO(G/C3)
-.2500
.25000
TENS(LBF)
10000.
0.0
CALI(IN)
8.0000
16.000
RHOB(G/C3)
2.0000
3.0000
GR(GAPI)
0.0
200.00
DPHI(V/V)
.30000
-.1000


Key Energy - Sunco SWD - Porosity Log
30%
20%
10%
0%
4300
4400
4500
5"/100'
CP 32.6
FILE 6
01-FEB-1992 20:21
(UP)
DRHO(G/C3)
-.2500
.25000
TENS(LBF)
10000.
0.0
CALI(IN)
8.0000
16.000
RHOB(G/C3)
2.0000
3.0000
GR(GAPI)
0.0
200.00
DPHI(V/V)
.30000
-.1000

2022

Agua Moss, LLC

Sunco Disposal #1 30-045-28653

Quarterly
Injection Report

	Average Pressure (psig)	Maximum Pressure (psig)	Minimum Pressure (psig)	Average Flow (gpm)	Maxium Flow (gpm)	Minimum Flow (gpm)	Average Annular Pressure (psig)	Maximum Annular Pressure (psig)	Minimum Annular Pressure (psig)	Average Volume (bpd)	Maximum Volume (bpd)	Minimum Volume (bpd)	Volume (barrels)	Total Cumulative Volume (barrels)	
													Previous year	15182756	
Jan-2022	1200	1200	1200	0	0	0	0	0	0	0	0	0	0	15182756	
Feb-2022	1280	1800	1150	17.80138889	24.2375	11.1416667	0	0	0	610.3333333	831	382	1831	15184587	
Mar-2022	1200	1200	1200	0	0	0	0	0	0	0	0	0	0	15184587	
													Previous Quarter	15184587	
Apr-2022	1050	1050	1050	15.05972222	22.86666667	10.4125	0	0	0	516.3333333	784	357	1549	15186136	
May-2022	1815.179	2000	1150	65.41979167	125.2708333	33.2791667	0	0	0	2242.964286	4295	1141	62803	15248939	
Jun-2022	1800	1950	1250	58.84180556	84.175	20.825	0	0	0	2017.433333	2886	714	60523	15309462	
													Previous Quarter	15309462	
Jul-22	1836.538	2000	1450	57.85208333	69.0375	43.6333333	0	0	0	1983.5	2367	1496	15868	15325330	
Aug-22	1870	2250	1350	45.4125	71.05	15.6333333	0	0	0	1557	2436	536	21798	15347128	
Sep-22	#DIV/0!	0	0	0	0	0	0	0	0	#DIV/0!	0	0	0	15347128	
													Previous Quarter	15347128	
Oct-2022	#DIV/0!	0	0	0	0	0	0	0	0	#DIV/0!	0	0	0	15347128	
Nov-2022	#DIV/0!	0	0	0	0	0	0	0	0	#DIV/0!	0	0	0	15347128	
Dec-2022	#DIV/0!	0	0	0	0	0	0	0	0	#DIV/0!	0	0	0	15347128	
												Total for year	**164372**	**15511500**	**Life Of well injected**

	WH	AP
1/1/22		
1/2/22		
1/3/22		
1/4/22		
1/5/22		
1/6/22		
1/7/22		
1/8/22		
1/9/22		
1/10/22		
1/11/22		
1/12/22	1200	
1/13/22		
1/14/22		
1/15/22		
1/16/22		
1/17/22		
1/18/22		
1/19/22	1200	
1/20/22		
1/21/22	1200	
1/22/22		
1/23/22		
1/24/22		
1/25/22		
1/26/22	1200	
1/27/22	1200	
1/28/22		
1/29/22		
1/30/22		
1/31/22		
	1200	0 AVG
	1200	0 MIN
	1200	0 MAX

	WH	AP
2/1/22		
2/2/22		
2/3/22	1150	
2/4/22		
2/5/22		
2/6/22		
2/7/22		
2/8/22	1150	
2/9/22		
2/10/22		
2/11/22		
2/12/22		
2/13/22		
2/14/22		
2/15/22		
2/16/22		
2/17/22		
2/18/22		
2/19/22		
2/20/22		
2/21/22	1150	
2/22/22	1150	
2/23/22		
2/24/22		
2/25/22		
2/26/22		
2/27/22		
2/28/22	1800	
	1280	0 AVG
	1150	0 MIN
	1800	0 MAX

	WH	AP
3/1/22	1200	
3/2/22		
3/3/22		
3/4/22		
3/5/22		
3/6/22		
3/7/22	1200	
3/8/22		
3/9/22		
3/10/22		
3/11/22		
3/12/22		
3/13/22		
3/14/22		
3/15/22		
3/16/22	1200	
3/17/22		
3/18/22		
3/19/22		
3/20/22		
3/21/22		
3/22/22		
3/23/22		
3/24/22		
3/25/22		
3/26/22		
3/27/22		
3/28/22		
3/29/22		
3/30/22		
3/31/22		
	1200	0 AVG
	1200	0 MIN
	1200	0 MAX

	WH	AP
4/1/22		
4/2/22		
4/3/22		
4/4/22		
4/5/22		
4/6/22		
4/7/22	1050	
4/8/22		
4/9/22		
4/10/22		
4/11/22		
4/12/22	1050	
4/13/22		
4/14/22		
4/15/22		
4/16/22		
4/17/22		
4/18/22		
4/19/22		
4/20/22		
4/21/22		
4/22/22		
4/23/22		
4/24/22		
4/25/22	1050	
4/26/22	1050	
4/27/22	1050	
4/28/22	1050	
4/29/22		
4/30/22		
	1050	0 AVG
	1050	0 MIN
	1050	0 MAX

	WH	AP
5/1/22		
5/2/22		
5/3/22	1150	
5/4/22	1350	
5/5/22	1450	
5/6/22	1550	
5/7/22		
5/8/22	1500	
5/9/22	1850	
5/10/22	1850	
5/11/22	1900	
5/12/22	1900	
5/13/22	1900	
5/14/22	1900	
5/15/22	2000	
5/16/22	1950	
5/17/22	1950	
5/18/22	2000	
5/19/22	2000	
5/20/22	2000	
5/21/22	1975	
5/22/22	1750	
5/23/22	1750	
5/24/22	1950	
5/25/22	1950	
5/26/22	1950	
5/27/22	1750	
5/28/22	1900	
5/29/22	1750	
5/30/22	1950	
5/31/22	1950	
	1815.179	0 AVG
	1150	0 MIN
	2000	0 MAX

	WH	AP
6/1/22	1950	
6/2/22	1950	
6/3/22	1750	
6/4/22	1950	
6/5/22	1250	
6/6/22	1800	
6/7/22	1750	
6/8/22	1750	
6/9/22	1950	
6/10/22	1950	
6/11/22	1950	
6/12/22	1750	
6/13/22	1750	
6/14/22	1750	
6/15/22	1950	
6/16/22	1900	
6/17/22	1750	
6/18/22	1700	
6/19/22	1900	
6/20/22	1700	
6/21/22	1800	
6/22/22	1900	
6/23/22	1750	
6/24/22	1700	
6/25/22	1800	
6/26/22	1700	
6/27/22	1700	
6/28/22	1700	
6/29/22	1900	
6/30/22	1900	
	1800	0 AVG
	1250	0 MIN
	1950	0 MAX

	WH	AP
7/1/22	1900	
7/2/22	1950	
7/3/22	1800	
7/4/22	2000	
7/5/22	1900	
7/6/22	1950	
7/7/22	2000	
7/8/22	1900	
7/9/22	1700	
7/10/22		
7/11/22		
7/12/22	1525	
7/13/22		
7/14/22		
7/15/22		
7/16/22		
7/17/22		
7/18/22		
7/19/22		
7/20/22	1450	
7/21/22		
7/22/22		
7/23/22		
7/24/22		
7/25/22		
7/26/22		
7/27/22	1900	
7/28/22	1900	
7/29/22		
7/30/22		
7/31/22		
	1836.538	0 AVG
	1450	0 MIN
	2000	0 MAX

	WH	AP
8/1/22		
8/2/22		
8/3/22		
8/4/22		
8/5/22	1350	
8/6/22		
8/7/22		
8/8/22	1800	
8/9/22	1900	
8/10/22	1920	
8/11/22	1950	
8/12/22	1950	
8/13/22		
8/14/22		
8/15/22		
8/16/22		
8/17/22	1400	
8/18/22		
8/19/22		
8/20/22		
8/21/22		
8/22/22	1750	
8/23/22	1950	
8/24/22	1850	
8/25/22	1950	
8/26/22	2100	
8/27/22	1900	
8/28/22		
8/29/22	2000	
8/30/22	2250	
8/31/22	1900	
	1870	0 AVG
	1350	0 MIN
	2250	0 MAX

	WH	AP
9/1/22		
9/2/22		
9/3/22		
9/4/22		
9/5/22		
9/6/22		
9/7/22		
9/8/22		
9/9/22		
9/10/22		
9/11/22		
9/12/22		
9/13/22		
9/14/22		
9/15/22		
9/16/22		
9/17/22		
9/18/22		
9/19/22		
9/20/22		
9/21/22		
9/22/22		
9/23/22		
9/24/22		
9/25/22		
9/26/22		
9/27/22		
9/28/22		
9/29/22		
9/30/22		
	#DIV/0!	0 AVG
	0	0 MIN
	0	0 MAX

	WH	AP
10/1/22		
10/2/22		
10/3/22		
10/4/22		
10/5/22		
10/6/22		
10/7/22		
10/8/22		
10/9/22		
10/10/22		
10/11/22		
10/12/22		
10/13/22		
10/14/22		
10/15/22		
10/16/22		
10/17/22		
10/18/22		
10/19/22		
10/20/22		
10/21/22		
10/22/22		
10/23/22		
10/24/22		
10/25/22		
10/26/22		
10/27/22		
10/28/22		
10/29/22		
10/30/22		
10/31/22		
	#DIV/0!	0 AVG
	0	0 MIN
	0	0 MAX

	WH	AP
11/1/22		
11/2/22		
11/3/22		
11/4/22		
11/5/22		
11/6/22		
11/7/22		
11/8/22		
11/9/22		
11/10/22		
11/11/22		
11/12/22		
11/13/22		
11/14/22		
11/15/22		
11/16/22		
11/17/22		
11/18/22		
11/19/22		
11/20/22		
11/21/22		
11/22/22		
11/23/22		
11/24/22		
11/25/22		
11/26/22		
11/27/22		
11/28/22		
11/29/22		
11/30/22		
	#DIV/0!	0 AVG
	0	0 MIN
	0	0 MAX

	WH	AP
12/1/22		
12/2/22		
12/3/22		
12/4/22		
12/5/22		
12/6/22		
12/7/22		
12/8/22		
12/9/22		
12/10/22		
12/11/22		
12/12/22		
12/13/22		
12/14/22		
12/15/22		
12/16/22		
12/17/22		
12/18/22		
12/19/22		
12/20/22		
12/21/22		
12/22/22		
12/23/22		
12/24/22		
12/25/22		
12/26/22		
12/27/22		
12/28/22		
12/29/22		
12/30/22		
12/31/22		
	#DIV/0!	0 AVG
	0	0 MIN
	0	0 MAX

Total Injected	Avg Vol	Avg Flow		Avg Vol	Avg Flow		Avg Vol	Avg Flow		Avg Vol	Avg Flow		Avg Vol	Avg Flow		Avg Vol	Avg Flow		Avg Vol	Avg Flow		Avg Vol	Avg Flow		Avg Vol	Avg Flow		Avg Vol	Avg Flow
1/1/22	0		2/1/22			3/1/22	0	0	4/1/2022			5/1/2022			6/1/2022	2587	75.45416667	7/1/2022	2176	63.46666667	8/1/2022			9/1/2022		0	10/1/2022		0	11/1/2022			12/1/2022		0
1/2/22			2/2/22			3/2/22			4/2/2022			5/2/2022			6/2/2022	1912	55.76666667	7/2/2022	1987	57.95416667	8/2/2022			9/2/2022			10/2/2022			11/2/2022		0	12/2/2022		0
1/3/22			2/3/22	382	11.14166667	3/3/22			4/3/2022			5/3/2022	1522	44.39166667	6/3/2022	1573	45.87916667	7/3/2022	1496	43.63333333	8/3/2022			9/3/2022			10/3/2022			11/3/2022		0	12/3/2022		0
1/4/22			2/4/22			3/4/22			4/4/2022			5/4/2022	1141	33.27916667	6/4/2022	1865	54.39583333	7/4/2022	1718	50.10833333	8/4/2022			9/4/2022			10/4/2022			11/4/2022			12/4/2022		0
1/5/22			2/5/22			3/5/22			4/5/2022			5/5/2022	2248	65.56666667	6/5/2022	714	20.825	7/5/2022	2295	66.9375	8/5/2022			9/5/2022			10/5/2022			11/5/2022			12/5/2022		
1/6/22			2/6/22			3/6/22			4/6/2022			5/6/2022	2850	83.125	6/6/2022	1761	51.3625	7/6/2022	1936	56.46666667	8/6/2022			9/6/2022			10/6/2022			11/6/2022			12/6/2022		0
1/7/22			2/7/22			3/7/22			4/7/2022			5/7/2022			6/7/2022	2046	59.675	7/7/2022	2367	69.0375	8/7/2022			9/7/2022	0		10/7/2022			11/7/2022			12/7/2022		0
1/8/22			2/8/22			3/8/22			4/8/2022			5/8/2022	2240	65.33333333	6/8/2022	1745	50.89583333	7/8/2022	1893	55.2125	8/8/2022	817	23.82916667	9/8/2022			10/8/2022			11/8/2022			12/8/2022		0
1/9/22			2/9/22			3/9/22			4/9/2022			5/9/2022	1277	37.24583333	6/9/2022	2030	59.20833333	7/9/2022			8/9/2022	1641	47.8625	9/9/2022			10/9/2022			11/9/2022			12/9/2022		
1/10/22			2/10/22			3/10/22			4/10/2022			5/10/2022	1200	35	6/10/2022	2480	72.33333333	7/10/2022			8/10/2022	1711	49.90416667	9/10/2022			10/10/2022			11/10/2022			12/10/2022		
1/11/22			2/11/22			3/11/22			4/11/2022			5/11/2022	4295	125.2708333	6/11/2022	2627	76.62083333	7/11/2022			8/11/2022	1693	49.37916667	9/11/2022			10/11/2022			11/11/2022			12/11/2022		
1/12/22			2/12/22			3/12/22			4/12/2022	408	11.9	5/12/2022	3031	88.40416667	6/12/2022	1862	54.30833333	7/12/2022			8/12/2022	536	15.63333333	9/12/2022			10/12/2022			11/12/2022			12/12/2022		
1/13/22			2/13/22			3/13/22			4/13/2022			5/13/2022	2077	60.57916667	6/13/2022	1794	52.325	7/13/2022			8/13/2022			9/13/2022			10/13/2022			11/13/2022			12/13/2022		
1/14/22			2/14/22			3/14/22			4/14/2022			5/14/2022	2564	74.78333333	6/14/2022	2152	62.76666667	7/14/2022			8/14/2022			9/14/2022			10/14/2022			11/14/2022			12/14/2022		
1/15/22			2/15/22			3/15/22			4/15/2022			5/15/2022	2461	71.77916667	6/15/2022	2824	82.36666667	7/15/2022			8/15/2022			9/15/2022			10/15/2022			11/15/2022			12/15/2022		
1/16/22			2/16/22			3/16/22			4/16/2022			5/16/2022	2711	79.07083333	6/16/2022	2530	73.79166667	7/16/2022			8/16/2022			9/16/2022			10/16/2022			11/16/2022			12/16/2022		
1/17/22			2/17/22			3/17/22			4/17/2022			5/17/2022	1909	55.67916667	6/17/2022	1470	42.875	7/17/2022			8/17/2022			9/17/2022			10/17/2022			11/17/2022			12/17/2022		
1/18/22		0	2/18/22			3/18/22			4/18/2022			5/18/2022	2266	66.09166667	6/18/2022	1815	52.9375	7/18/2022			8/18/2022			9/18/2022			10/18/2022			11/18/2022			12/18/2022		
1/19/22		0	2/19/22			3/19/22			4/19/2022			5/19/2022	2022	58.975	6/19/2022	1700	49.58333333	7/19/2022			8/19/2022			9/19/2022			10/19/2022			11/19/2022			12/19/2022		
1/20/22		0	2/20/22			3/20/22			4/20/2022			5/20/2022	2694	78.575	6/20/2022	1791	52.2375	7/20/2022			8/20/2022			9/20/2022			10/20/2022			11/20/2022			12/20/2022		
1/21/22		0	2/21/22			3/21/22			4/21/2022			5/21/2022	3099	90.3875	6/21/2022	2657	77.49583333	7/21/2022			8/21/2022			9/21/2022			10/21/2022			11/21/2022			12/21/2022		
1/22/22		0	2/22/22	618	18.025	3/22/22			4/22/2022			5/22/2022	1977	57.6625	6/22/2022	2886	84.175	7/22/2022			8/22/2022	790	23.04166667	9/22/2022			10/22/2022			11/22/2022			12/22/2022		
1/23/22		0	2/23/22			3/23/22			4/23/2022			5/23/2022	2137	62.32916667	6/23/2022	1676	48.88333333	7/23/2022			8/23/2022	1513	44.12916667	9/23/2022			10/23/2022			11/23/2022			12/23/2022		
1/24/22		0	2/24/22			3/24/22			4/24/2022			5/24/2022	2836	82.71666667	6/24/2022	2037	59.4125	7/24/2022			8/24/2022	2292	66.85	9/24/2022			10/24/2022			11/24/2022			12/24/2022		
1/25/22		0	2/25/22			3/25/22			4/25/2022	784	22.86666667	5/25/2022	2221	64.77916667	6/25/2022	1582	46.14166667	7/25/2022			8/25/2022	1943	56.67083333	9/25/2022			10/25/2022			11/25/2022	0		12/25/2022		
1/26/22		0	2/26/22			3/26/22			4/26/2022			5/26/2022	1588	46.31666667	6/26/2022	2061	60.1125	7/26/2022			8/26/2022	2259	65.8875	9/26/2022			10/26/2022			11/26/2022	0		12/26/2022		
1/27/22		0	2/27/22			3/27/22			4/27/2022			5/27/2022	1538	44.85833333	6/27/2022	962	28.05833333	7/27/2022			8/27/2022	1014	29.575	9/27/2022	0		10/27/2022			11/27/2022			12/27/2022		
1/28/22		0	2/28/22	831	24.2375	3/28/22			4/28/2022	357	10.4125	5/28/2022	1591	46.40416667	6/28/2022	2409	70.2625	7/28/2022			8/28/2022			9/28/2022			10/28/2022			11/28/2022			12/28/2022		
1/29/22		0				3/29/22			4/29/2022			5/29/2022	1523	44.42083333	6/29/2022	2555	74.52083333	7/29/2022			8/29/2022	1078	31.44166667	9/29/2022			10/29/2022			11/29/2022	0		12/29/2022		
1/30/22		0				3/30/22			4/30/2022			5/30/2022	2639	76.97083333	6/30/2022	2420	70.58333333	7/30/2022			8/30/2022	2436	71.05	9/30/2022			10/30/2022			11/30/2022	0		12/30/2022		
1/31/22		0				3/31/22						5/31/2022	3146	91.75833333				7/31/2022			8/31/2022	2075	60.52083333				10/31/2022						12/31/2022		
AVG	0	0		610.3333333	17.80138889		0	0		516.3333333	15.05972222		2242.964286	65.41979167		2017.433333	58.84180556		1983.5	57.85208333		1557	45.4125		#DIV/0!	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!	0	
MAX	0	0		831	24.2375		0	0		784	22.86666667		4295	125.2708333		2886	84.175		2367	69.0375		2436	71.05		0	0		0	0		0	0		0	0	
MIN	0	0.0000000		382	11.1416667		0	0.0000000		357	10.4125000		1141	33.2791667		714	20.8250000		1496	43.6333333		536	15.6333333		0	0.0000000		0	0.0000000		0	0.0000000		0	0.0000000	
Total for mont	0			1831			0			1549			62803			60523			15868			21798			0			0			0			0		

2022 AREA OF REVIEW
UNIT LETTERS ENCOMPASSED BY THE 2-MILE AOR

Sec	TWN	RNG	UL	
1	29N	12W	ALL	
2	29N	12W	ALL	
3	29N	12W	ALL	
4	29N	12W	ACFJKNP	
9	29N	12W	ABH	
10	29N	12W	ABCDIJN	
11	29N	12W	ACDGHILOP	
12	29N	12W	AEFKM	
25	30N	12W	EMN	
26	30N	12W	FGLNOP	
27	30N	12W	LMP	
28	30N	12W	O	
33	30N	12W	GHIJK	
34	30N	12W	ALL	
35	30N	12W	ALL	
36	30N	12W	AEIMN	

Radius expanded to 2 miles for permit renewal requirements.

													Surface Casing			*INT Casing*			*Production Casing*					
API	Well Name	Well #	Current Operator	Type	Lease	Status	Sec	TWN	RNG	UL	Spud Date	TD	size	depth	Sacks TOC	size	depth	Sacks TOC	size	depth	Sacks TOC	Perfs	Packer	PLUGGED
30-045-08851	ALLEN A	#001	BP America	Gas	Private	Plugged	1	29N	12W	D	3/12/1961	6785	8.265	264	200 surf				4.5	6785	300 surf	6518-6718		3/27/2018
30-045-26214	ALLEN A	#001E	SIMCOE LLC	Gas	Federal	Active	1	29N	12W	L	3/22/1985	5825	8.625	318	225 surf				5.5	6622	820 surf	6425-6602		
30-045-08661	Dudley Cornell A	#001	SIMCOE LLC	Gas	Federal	Active	1	29N	12W	O	11/15/1960	6730	9.625	263	200 surf				4.5	6707	300 surf	6434-6587		
30-045-24129	Dudley Cornell A	#001E	SIMCOE LLC	Gas	Federal	Active	1	29N	12W	G	4/28/1980	6722	9.625	348	250 surf				4.5	6710	180 surf	6496-6629		
30-045-34348	Allen Com	#100	Burlington	Gas	Federal	Plugged	1	29N	12W	B	10/22/2007	138												1/22/2009
30-045-08782	Cornell	5	Burlington	Gas	Federal	Plugged	1	29N	12W	G	9/30/1955	99999												4/28/1994
30-045-29167	Hike	1	Dugan Production	Gas	Federal	Active	1	29N	12W	G	7/10/1994	3840	8.625	260	175 surf				4.5	3820	595 surf	3710-3718	3710	
30-045-08656	Cornell	2	Energen Resources	Gas	Federal	Plugged	1	29N	12W	M	10/2/1955	1996												9/15/2005
30-045-29539	Cornell	3R	Epic Energy	Gas	Federal	Plugged	1	29N	12W	I	10/7/1955	0	7	131	45-53				3.5	2193	434-741	1991-2041		7/13/2018
30-045-29538	Cornell	5R	HilCorp	Gas	Federal	Active	1	29N	12W	A	4/14/1998	2225	7	131	45-53				3.5	2215	434-741	2029-2059		
30-045-08783	PRE-ONGARD WELL	#001	Pre Ongard	Gas	Private	Plugged	1	29N	12W	F	7/9/2003	2090												12/31/1901
30-045-08641	PRE-ONGARD WELL	#003	Pre Ongard	Gas	Federal	Plugged	1	29N	12W	O	4/11/1998	2203												11/16/1981
30-045-08793	Pre-Ongard		Southern union	Gas	Private	Plugged	1	29N	12W	E	3/16/1948	2125												3/16/1948
30-045-32346	CORNELL	#002R	Southland Royalty	Gas	Federal	Active	1	29N	12W	M	7/22/2004	2152	7	137	90 surf				4.5	2151	310 surf	1702-1926		
30-045-31612	Cornell	2S	Southland Royalty	Gas	Federal	Active	1	29N	12W	O	7/27/1957	0	7	136	56 surf				4.5	2058	225 surf	1725-1921		
30-045-28653	SUNCO DISPOSAL	#001	Agua Moss	Salt Water Disposal	Private	Active	2	29N	12W	E	1/28/1992	4760	8.625	209	150 surf				5.5	4760	1010 surf	4350-4460	4282 10/15/07	4350-4460 TA'd
30-045-33573	CORNELL COM	#500S	Burlington	Gas	Private	Plugged	2	29N	12W	P	3/18/2006	2210	7	132	34 surf	6.25	2210		4.5	2198	279 surf	1754-1939 1743-1924		1/23/2013
30-045-08844	KATTLER	#001	Burlington	Gas	Private	Plugged	2	29N	12W	C	1/26/1945	2069	10	846	surf	5.5	1960		3.5	2050	205 surf	1961-2007		5/26/2012
30-045-08713	McGrath SRC	#001	Burlington	Gas	Private	Plugged	2	29n	12w	j	7/7/1973	2136												1998
30-045-30486	MCGRATH SRC	#001R	Burlington	Gas	Private	Plugged	2	29N	12W	J	3/23/2001	2235												6/25/2010
30-045-32241	BECK	#001R	HilCorp	Gas	Private	Active	2	29N	12W	G	12/1/2004	2225	7	135	34 surf				4.5	2221	262 surf	1774-2077		
30-045-33811	BECK	#001S	HilCorp	Gas	Private	Active	2	29N	12W	D	8/17/2006	2200	7	162	85 surf				4.5	2195	255 surf	1730-1951		
30-045-31580	CORNELL COM	#500	HilCorp	Gas	Federal	Active	2	29N	12W	N	7/14/2003	2136	7	139	44 surf	6.25	2126		4.5	2126	258 surf	1658-1878		
30-045-08714	CORNELL SRC	#007	HilCorp	Gas	Federal	Active	2	29N	12W	L	7/29/1944	2107	16	42	10 surf	5.5	1978		3.5	2106	250 surf	1976-2010		

30-045-08704	MCGRATH B	#001	HilCorp	Gas	Private	Active	2	29N	12W	J	11/19/1961	6720	8.625	318	225 surf				4.5	1865	1065 surf	6489-6596		
30-045-08839	YOUNG	#001	HilCorp	Gas	Private	Active	2	29N	12W	D	8/1/1961	6740	8.625	307	275 surf				4.5	6739	700 surf	6446-6644		
30-045-08797	Pre-Ongard		Southland	Gas	Private	Plugged	2	29n	12w	g	4/14/1948	2125												2/23/1984
30-045-27635	PRE-ONGARD WELL	#500		Gas	Federal	Plugged	2	29N	12W	M														12/31/1901
30-045-08709	MCGRATH	#003	Burlington	Gas	Private	Plugged	3	29N	12W	J	3/4/1945	2040												3/1/2013
30-045-60274	WALKER 2	#002	Burlington	Gas	Private	Plugged	3	29N	12W	D	1/8/1945	1974												7/24/1998
30-045-08823	Walker SRC	1	Burlington	Gas	Private	Plugged	3	29N	12W	G	2/25/1943	2050												10/12/2009
30-045-33580	MCGRATH	#003S	HilCorp	Gas	Private	TA'd	3	29N	12W	B	7/13/2007	2132	7	218	150 surf				4.5	2112	289 surf	1692-1904		TA'd 10/23/2009
30-045-08712	MCGRATH A	#001	HilCorp	Gas	Private	Active	3	29N	12W	I	3/14/1964	6689	8.625	307	250 surf				4.5	6688	500 surf	6432-6524		
30-045-32931	WALKER	#100S	HilCorp	Gas	Private	Active	3	29N	12W	F	8/14/2005	2120	7	144	61 surf				4.5	2117	238 surf	1621-1885		
30-045-08801	WALKER 1	#001	HilCorp	Gas	Private	Active	3	29N	12W	E	4/12/1960	6620	8.625	232	150 surf				4.5	6620	300 surf	6546-6556		
30-045-30244	WALKER 100	#100	HilCorp	Gas	Private	TA'd	3	29N	12W	L	3/30/2001	1948	7	126	140-168				4.5	1940	219-399	1659-1872	1597 CIBP@1609	Tad
30-045-08711	Pre-Ongard		Union Texas	Gas	Private	Plugged	3	29N	12W	K	6/25/1955	1940												11/10/1964
30-045-29117	RIGGS	#001	Enduring Resources	Gas	Private	Active	4	29N	12W	A	6/24/1994	1900												
30-045-29118	RIGGS	#002	Enduring Resources	Gas	Private	Plugged	4	29N	12W	N	6/28/1994	1890												5/8/2017
30-045-32239	RIGGS	#003	Enduring Resources	Gas	Private	Active	4	29N	12W	C	2/21/2005	1906												
30-045-32312	RIGGS	#004	Enduring Resources	Gas	Private	Active	4	29N	12W	P	3/20/2005	2002												
30-045-08718	STANDARD	#001	HilCorp	Gas	Federal	Active	4	29N	12W	J	11/3/1960	6600	8.625	236	175 surf				4.5	6600	250 surf	6356-6510		
30-045-08720	DEVONIAN FEDERAL	#001	Holcomb Oil & Gas	Gas	Federal	Active	4	29N	12W	K	6/23/1959	6538												
30-045-24552	PRE-ONGARD WELL	#001	Pre Ongard	Gas	Federal	Plugged	4	29N	12W	A	5/29/1981	0												12/7/1995
30-045-08804	FEDERAL	#001	Riggs Oil & Gas	Gas	Federal	Plugged	4	29N	12W	F	5/29/1959	1856												2/9/2017
30-045-08586	FLORANCE GAS COM B	#001	SIMCOE LLC	Gas	Federal	Active	9	29N	12W	H	1/20/1964	6470												
30-045-28824	ROPCO FEE FC 9	#002	HilCorp	Gas	Private	Active	9	29N	12W	A	11/25/1992	1975												
30-045-26855	PRE-ONGARD WELL	#001	Pre Ongard	Gas	Private	Plugged	9	29N	12W	B	3/18/1988	0												3/9/1989
30-045-08601	CORNELL A	#001	SIMCOE LLC	Gas	Federal	Active	10	29N	12W	D	12/28/1960	6510												
30-045-24132	CORNELL A	#001E	BP America	Gas	Federal	Plugged	10	29N	12W	N	4/4/1980	6350												1/24/2018

30-045-08605	CORNELL	#007	Burlington	Gas	Federal	Plugged	10	29N	12W	C	4/20/1956	1807												7/18/1996
30-045-23889	BECK A	#001E	HilCorp	Gas	Federal	Active	10	29N	12W	B	1/5/1981	6514	8.625	240	150 surf				4.5	6514	765 surf	6277-6454		
30-045-08517	BECK A	#001	HilCorp	Gas	Private	Active	10	29N	12W	J	6/12/1962	6410												
30-045-30381	CORNELL	#100	HilCorp	Gas	Federal	Active	10	29N	12W	B	1/7/2003	1968	7	147	55 surf				4.5	1959	229 surf	1543-1704 1744-1800		
30-045-08523	PRE-ONGARD WELL	#001	Pre Ongard	Water	Private	Permanently	10	29N	12W	J	8/21/1946	1871												10/31/1977
30-045-23758	Pre-Ongard		Southland	Gas	Federal	Plugged	10	29N	12W	A	12/19/1980	1870												2/10/1984
30-045-34452	BECK 29 12 10	#108	Synergy	Gas	Federal	Plugged	10	29N	12W	N	2/21/2008	1865												4/27/2020
30-045-13092	CORNELL C	#001	SIMCOE LLC	Gas	Federal	Active	11	29N	12W	D	12/6/1961	6604	8.625	250	150 surf				4.5	6604	300 surf	6298-6483		
30-045-08615	CORNELL	#006	Epic Energy	Gas	Federal	Active	11	29N	12W	C	11/7/1955	1839	8.625	106	70 surf	5.5	1811		3.5	2022	181 surf	1811-1839		
30-045-31581	CORNELL	#101	HilCorp	Gas	Federal	Active	11	29N	12W	D	10/7/2003	2008	7	140	35 surf				4.5	2000	270 surf	1726-1764		
30-045-24447	FEDERAL PRI	#001E	HilCorp	Gas	Federal	Active	11	29N	12W	H	10/9/1980	6581												
30-045-29945	PAYNE	#001R	Mcelvain Energy	Gas	Federal	Active	11	29N	12W	H	10/27/1999	2050												
30-045-32667	PRI	#003	Mcelvain Energy	Gas	Federal	Active	11	29N	12W	I	2/27/2005	1960												
30-045-13218	PRE-ONGARD WELL	#010	Pre Ongard	Gas	Federal	Plugged	11	29N	12W	A		0												12/31/1901
30-045-08558	PRE-ONGARD WELL	#001	Pre Ongard	Gas	Federal	Plugged	11	29N	12W	G	1/1/1940	0												4/16/1976
30-045-08515	PRE-ONGARD WELL	#001	Pre Ongard	Gas	Private	Plugged	11	29N	12W	L	11/25/1932	0												12/13/1982
30-045-20067	PRE-ONGARD WELL	#001	Pre Ongard	Gas	Federal	Plugged	11	29N	12W	O	5/5/1967	0												4/18/1986
30-045-08475	CARROLL CORNELL	#012	Producing Royalties	Gas	Federal	Plugged	11	29N	12W	P	11/22/1953	1895												6/13/1979
30-045-22118	PAYNE	#001	Producing Royalties	Gas	Federal	Plugged	11	29N	12W	A	7/31/1976	2060												2/13/2002
30-045-24086	CORNELL D	#001E	SIMCOE LLC	Gas	Federal	Active	12	29N	12W	A	5/22/1980	6635												
30-045-24283	CORNELL E	#001E	SIMCOE LLC	Gas	Federal	Active	12	29N	12W	F	5/12/1980	6609												
30-045-08444	CORNELL E	#001	BP America	Gas	Federal	Plugged	12	29N	12W	M	9/28/1962	6562												6/27/2017
30-045-08528	CORNELL SRC	#004	Burlington	Gas	Federal	Plugged	12	29N	12W	K	5/25/1941	1970												3/29/2017
30-045-22119	PAYNE	#002	Mcelvain Energy	Gas	Federal	Plugged	12	29N	12W	F	7/22/1976	2062												10/30/2010
30-045-22962	PAYNE	#002J	RIM Operating	Gas	Federal	Active	12	29N	12W	E	6/12/1978	2026												
30-045-33015	PRI	#001S	RIM Operating	Gas	Federal	Active	12	29N	12W	A	9/20/2005	2057												

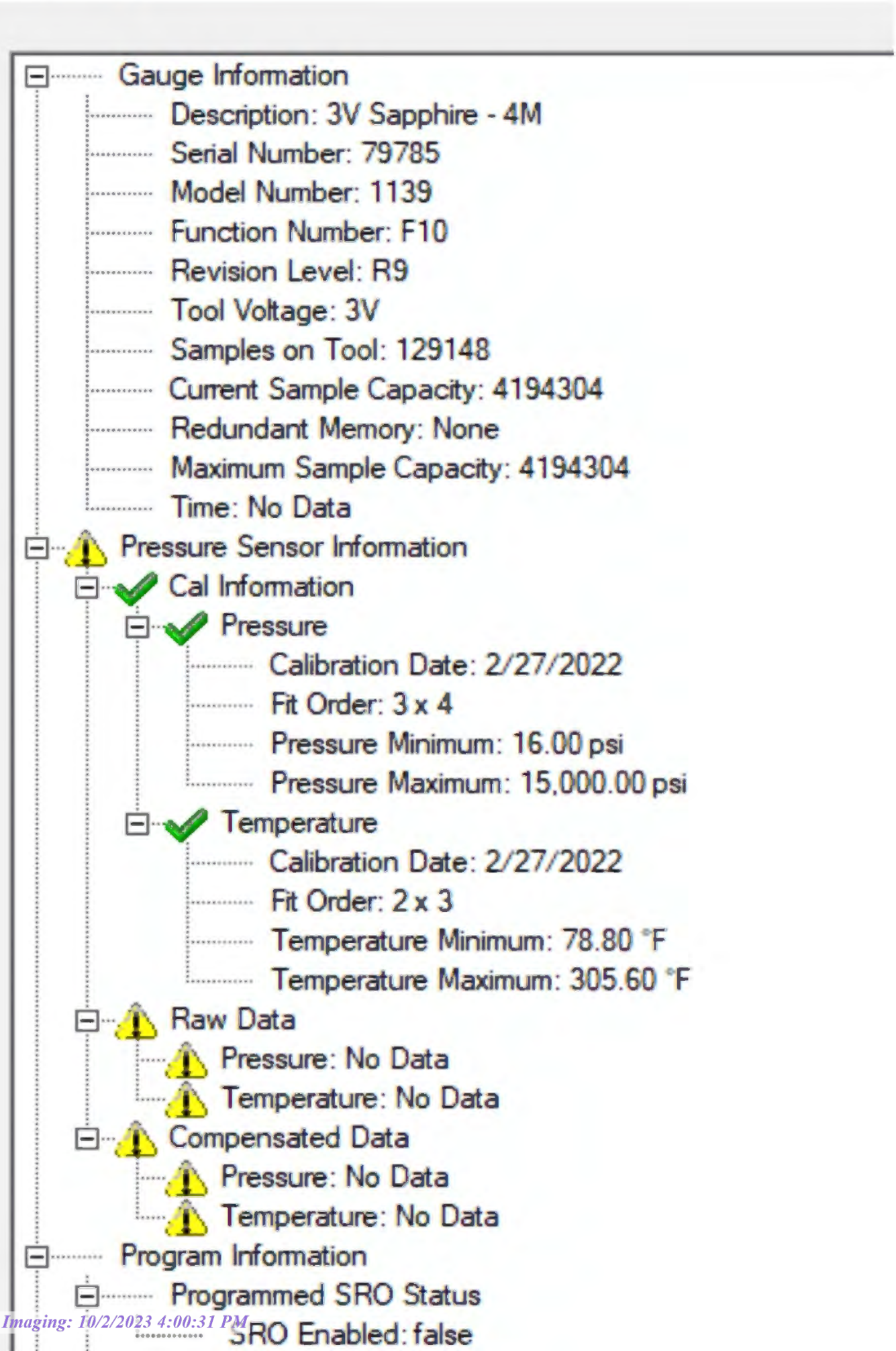
30-045-32665	PRI	#001	RIM Operating	Gas	Federal	Active	12	29N	12W	E	2/17/2005	2090											
30-045-32666	PRI	#002	RIM Operating	Gas	Federal	Active	12	29N	12W	M	2/8/2005	2010											
30-045-09117	PRE-ONGARD WELL	#001	ONGARD WELL OPERATOR	Gas	Private	Plugged	25	30N	12W	M	4/13/1953	0											5/26/1958
30-045-26121	ROWLAND GAS COM	#001E	HilCorp	Gas	Private	Active	25	30N	12W	M	3/19/1985	6560											
30-045-29707	RUBY CORSCOT A	#001	HilCorp	Gas	Private	Active	25	30N	12W	N	9/25/1999	2007											
30-045-31641	RUBY CORSCOT A	#002	HilCorp	Gas	Private	Active	25	30N	12W	E	6/2/2003	2076											
30-045-30456	KATY COM	#002	[14634] MERRION OIL & GAS CORP	Gas	Private	Plugged	26	30N	12W	P	4/27/2001	2028											8/10/2015
30-045-09177	PAUL PALMER	#001	[14634] MERRION OIL & GAS CORP	Gas	Private	Plugged	26	30N	12W	L	9/13/1961	3509											8/14/2015
30-045-29414	PRE-ONGARD WELL	#001	ONGARD WELL OPERATOR	Gas	Private	Plugged	26	30N	12W	G	6/21/1953	0											12/31/1901
30-045-09130	PRE-ONGARD WELL	#003	ONGARD WELL OPERATOR	Gas	Private	Plugged	26	30N	12W	O		0											3/12/1954
30-045-09165	PAUL PALMER D	#001	[5073] CONOCO INC	Gas	Private	Plugged	26	30N	12W	L	10/11/1961	99999											3/17/1995
30-045-30027	PADILLA	#001	HilCorp	Gas	Private	Active	26	30N	12W	F	1/15/2004	1953											
30-045-32243	PADILLA	#002	HilCorp	Gas	Private	Active	26	30N	12W	N	5/13/2004	2153											
30-045-09200	PRE-ONGARD WELL	#001	ONGARD WELL OPERATOR	Gas	Private	Plugged	27	30N	12W	L	3/30/1947	0											3/17/1959
30-045-13120	DUFF GAS COM B	#001	AMERICA PRODUCTION	Gas	Private	Plugged	27	30N	12W	P	2/28/1962	1950											5/30/1996
30-045-30544	DUFF GAS COM	#003	HilCorp	Gas	Private	Active	27	30N	12W	P	4/1/2001	5167											
30-045-09134	DUFF GAS COM C	#001	HilCorp	Gas	Private	Active	27	30N	12W	M	1/30/1964	6365											
30-045-26076	DUFF GAS COM C	#001E	HilCorp	Gas	Private	Active	27	30N	12W	P	9/20/1984	6500											
30-045-29664	DUFF GAS COM C	#002	HilCorp	Gas	Private	Active	27	30N	12W	M	10/16/1998	1856											
30-045-31284	DUFF GAS COM C	#004	HilCorp	Gas	Private	Active	27	30N	12W	P	1/27/2003	1996											
30-045-34235	GILBREATH	#002	Enduring Resources	Gas	Private	Active	28	30N	12W	O	4/30/2008	2170											
30-045-09037	HARGIS	#001	MCGEE OIL & GAS ONSHORE LP	Gas	Private	Plugged	33	30N	12W	G	9/15/1944	1808											2/23/1994
30-045-08999	PRE-ONGARD WELL	#002	ONGARD WELL OPERATOR	Gas	Private	Plugged	33	30N	12W	J	7/10/1946	0											6/4/1982
30-045-08998	JULANDER	#002	PRODUCTION CORP	Gas	Private	Plugged	33	30N	12W	I	4/1/1946	1936											4/12/1999
30-045-29023	REDFERN	#002	Enduring Resources	Gas	Private	Active	33	30N	12W	H	12/5/1993	1950											
30-045-32236	REDFERN	#003	Enduring Resources	Gas	Private	Active	33	30N	12W	I	3/8/2005	1993											

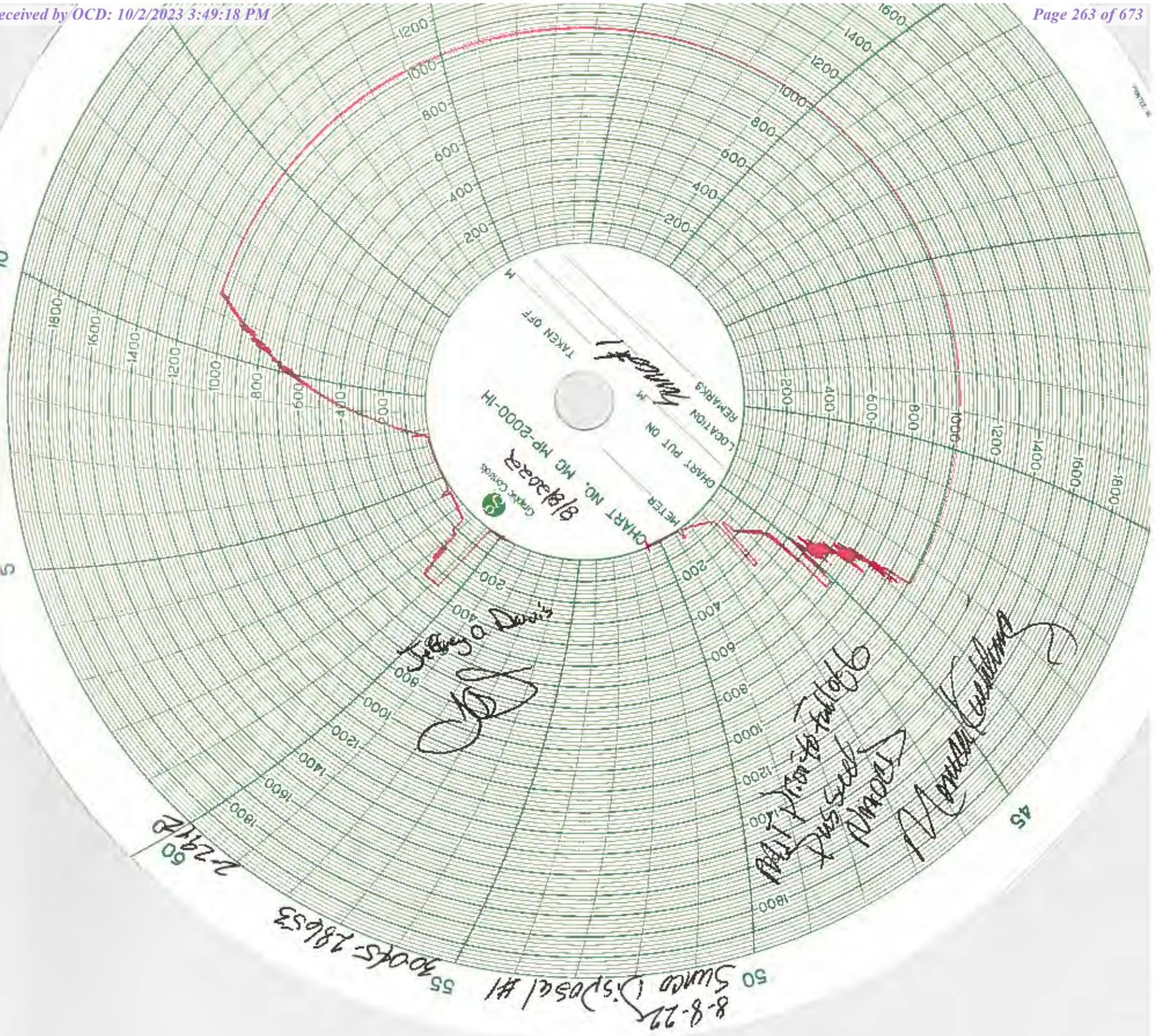
30-045-28912	SHIOTANI	#007	Enduring Resources	Gas	Private	Active	33	30N	12W	K	12/31/1992	1782											
30-045-09001	MADDOX	#001	HilCorp	Gas	Private	Active	33	30N	12W	J	9/21/1961	6400											
30-045-25923	MCGRATH	#004	BURLINGTON RESOURCES OIL &	Salt Water Disposal	Federal	Plugged	34	30N	12W	B	9/4/1984	4700											7/25/2013
30-045-09052	PRE-ONGARD WELL	#001	ONGARD WELL OPERATOR	Gas	Federal	Plugged	34	30N	12W	F	9/11/1945	0											1/22/1964
30-045-08939	PRE-ONGARD WELL	#001	ONGARD WELL OPERATOR	Gas	Private	Plugged	34	30N	12W	L	1/1/1945	0											6/4/1982
30-045-08950	HUDSON	2	Burlington	Gas	Federal	Plugged	34	30N	12W	P	7/17/1946	2137											9/26/2008
30-045-08945	MCGRATH C	#001	Burlington	Gas	Federal	Plugged	34	30n	12W	p	2/7/1963	6637											4/29/2009
30-045-26141	DUFF GAS COM	#001E	HilCorp	Gas	Federal	TA'd	34	30N	12W	G	11/20/1984	6608	8.625	316	295 surf				4.5	6608	1000 surf	6396-6576 04'RC to FC 1492-1870	TA'd 3/5/14
30-045-09071	DUFF GAS COM	#001	HilCorp	Gas	Private	Active	34	30N	12W	D	1/30/1962	6425											
30-045-31756	JULANDER	#100	HilCorp	Gas	Private	Shut In	34	30N	12W	D	7/13/2005	1895											
30-045-33411	JULANDER	#100S	HilCorp	Gas	Federal	Shut In	34	30N	12W	M	3/7/2006	2075											
30-045-31355	CARNAHAN COM	#001Y	HOLCOMB OIL & GAS INC	Gas	Private	Active	35	30N	12W	A	2/15/2003	2150											
30-045-11770	HUDSON J	#003	HilCorp	Gas	Federal	TA'd	35	30N	12W	E	7/22/1966	6750	8.625	306	250 surf				4.5	6750	750 surf	6460-6680 01' RC to FC 1784-1994	
30-045-08946	CARNAHAN COM	#001	Holcomb Oil & Gas	Gas	Private	Active	35	30N	12W	P	12/19/1960	6778	8.625	301	200 surf				4.5	6760	445 surf	6521-6708 94 RC to FC 1824-2037	
30-045-25844	CARNAHAN COM	#002	Merrion Oil & Gas	Gas	Private	Active	35	30N	12W	P	6/15/1984	6780	8.625	230	170 surf				4.5	6777	1425 surf	6529-6714	
30-045-20140	Pre-Ongard		Southland	Gas	Federal	Plugged	35	30N	12W	L	9/7/1967	DH											6/9/1982
30-045-28177	FC STATE COM	#024	Burlington	Gas	State	Plugged	36	30N	12W	M	10/9/1990	6608											3/26/2013
30-045-12188	NEW MEXICO COM N	#001	HilCorp	Gas	State	Active	36	30N	12W	E	1/2/1966	6562											
30-045-31074	NEW MEXICO COM N	#100	HilCorp	Gas	State	Shut In	36	30N	12W	A	8/29/2002	2135											
30-045-08986	STATE COM AH	#030	HilCorp	Gas	State	Active	36	30N	12W	I	6/14/1961	6645											
30-045-24037	STATE COM AH	#030E	HilCorp	Gas	State	Plugged	36	30N	12W	N	8/10/1980	6620											4/28/2016

Agua Moss - Sunco Disposal				
Operations Log for Falloff Test				
Date	**Rate (bbls/day)**	**TBG Pressure (psig)**	**CSG Pressure (psig)**	**Comment**
8/8/22 9:00 AM				Perform BH test & MIT test
8/8/22 10:43 AM				PLUGGED IN GAUGES
8/8/22 10:48 AM				OPENED WELL
8/8/22 11:04 AM				SET GAUGES
8/8/22 12:30 PM	1711	1500	0	Start injection
8/8/22 1:00 PM	1702	1600	0	
8/8/22 2:00 PM	1702	1650	0	
8/8/22 3:00 PM	1692	1700	0	
8/8/22 4:00 PM	1702	1700	0	
8/8/22 5:00 PM	1692	1750	0	
8/8/22 6:00 PM	1702	1750	0	
8/8/22 7:00 PM	1692	1750	0	
8/8/22 8:00 PM	1702	1750	0	
8/8/22 9:00 PM	1702	1775	0	
8/8/22 9:15 PM				Down HP kill
8/8/22 9:30 PM				Back on
8/8/22 10:00 PM	1673	1775	0	
8/8/22 11:00 PM	1673	1800	0	
8/9/22 12:00 AM	1664	1800	0	
8/9/22 1:00 AM	1664	1800	0	
8/9/22 2:00 AM	1655	1825	0	
8/9/22 3:00 AM	1655	1825	0	
8/9/22 4:00 AM	1665	1825	0	
8/9/22 5:00 AM	1664	1825	0	
8/9/22 6:00 AM	1673	1825	0	
8/9/22 7:00 AM	1665	1825	0	
8/9/22 8:00 AM	1655	1850	0	
8/9/22 9:00 AM	1655	1850	0	
8/9/22 10:00 AM	1664	1850	0	
8/9/22 11:00 AM	1664	1850	0	
8/9/22 12:00 PM	1673	1850	0	
8/9/22 1:00 PM	1673	1850	0	
8/9/22 2:00 PM	1673	1860	0	
8/9/22 3:00 PM	1664	1860	0	
8/9/22 4:00 PM	1683	1860	0	
8/9/22 5:00 PM	1664	1870	0	
8/9/22 6:00 PM	1664	1870	0	
8/9/22 7:00 PM	1673	1870	0	
8/9/22 8:00 PM	1664	1900	0	
8/9/22 9:00 PM	1673	1900	0	
8/9/22 10:00 PM	1664	1900	0	

8/9/22 11:00 PM	1673	1900	0	
8/10/22 12:00 AM	1673	1900	0	
8/10/22 1:00 AM	1664	1900	0	
8/10/22 2:00 AM	1673	1900	0	
8/10/22 3:00 AM	1683	1900	0	
8/10/22 4:00 AM	1683	1900	0	
8/10/22 5:00 AM	1683	1900	0	
8/10/22 6:00 AM	1692	1900	0	
8/10/22 7:00 AM	1702	1900	0	
8/10/22 8:00 AM	1702	1900	0	
8/10/22 9:00 AM	1692	1900	0	
8/10/22 10:00 AM	1702	1900	0	
8/10/22 11:00 AM	1692	1900	0	
8/10/22 12:00 PM	1683	1900	0	
8/10/22 1:00 PM	1683	1900	0	
8/10/22 2:00 PM	1664	1900	0	
8/10/22 3:00 PM	1655	1900	0	
8/10/22 4:00 PM	1664	1900	50	
8/10/22 5:00 PM	1655	1900	50	
8/10/22 6:00 PM	1673	1900	50	
8/10/22 7:00 PM	1673	1900	50	
8/10/22 8:00 PM	1664	1900	60	
8/10/22 9:00 PM	1664	1900	60	
8/10/22 10:00 PM	1673	1900	60	
8/10/22 11:00 PM	1683	1920	60	
8/11/22 12:00 AM	1673	1920	60	
8/11/22 1:00 AM	1673	1920	60	
8/11/22 2:00 AM	1673	1920	60	
8/11/22 3:00 AM	1702	1920	60	
8/11/22 4:00 AM	1683	1920	60	
8/11/22 5:00 AM	1673	1920	60	
8/11/22 6:00 AM	1664	1920	60	
8/11/22 7:00 AM	1692	1920	60	
8/11/22 8:00 AM	1683	1920	60	
8/11/22 9:00 AM	1692	1920	90	
8/11/22 10:00 AM	1692	1930	90	
8/11/22 11:00 AM	1692	1930	100	
8/11/22 12:00 PM	1702	1930	100	
8/11/22 1:00 PM	1702	1940	100	
8/11/22 2:00 PM	1692	1940	100	
8/11/22 3:00 PM	1702	1950	100	
8/11/22 4:00 PM	1711	1950	100	
8/11/22 5:00 PM	1721	1950	100	
8/11/22 6:00 PM	1721	1950	100	
8/11/22 7:00 PM	1721	1950	100	
8/11/22 8:00 PM	1711	1950	100	
8/11/22 9:00 PM	1711	1950	120	

8/11/22 10:00 PM	1702	1950	120	
8/11/22 11:00 PM	1730	1950	180	
8/12/22 12:00 AM	1711	1950	180	
8/12/22 1:00 AM	1722	1950	200	
8/12/22 2:00 AM	1711	1950	220	
8/12/22 3:00 AM	1730	1950	230	
8/12/22 4:00 AM	1721	1950	240	
8/12/22 5:00 AM	1721	1950	300	
8/12/22 6:00 AM	1711	1950	300	
8/12/22 7:00 AM	1711	1950	300	Shut in for Falloff Test
8/22/22 9:30 AM				End falloff test
8/22/22 9:38 AM				RELEASED GAUGES @9:38:10
				MADE STOPS @
8/22/22 9:46 AM				3000' 9:41:36-9:46:36
8/22/22 9:54 AM				2000' 9:49:18-9:54:18
8/22/22 10:01 AM				1000' 9:56:35-10:01:35
8/22/22 10:10 AM				0' 10:05:30-10:10:30
8/22/22 10:19 AM				UNPLUGGED GAUGES


Verify Gauge
Gauge Information
Description: 3V Sapphire - 4M
Serial Number: 79785
Model Number: 1139
Function Number: F10
Revision Level: R9
Tool Voltage: 3V
Samples on Tool: 129148
Current Sample Capacity: 4194304
Redundant Memory: None
Maximum Sample Capacity: 4194304
Time: No Data
Pressure Sensor Information
Cal Information
Pressure
Calibration Date: 2/27/2022
Fit Order: 3 x 4
Pressure Minimum: 16.00 psi
Pressure Maximum: 15,000.00 psi
Temperature
Calibration Date: 2/27/2022
Fit Order: 2 x 3
Temperature Minimum: 78.80 °F
Temperature Maximum: 305.60 °F
Raw Data
Pressure: No Data
Temperature: No Data
Compensated Data
Pressure: No Data
Temperature: No Data
Program Information
Programmed SRO Status
SRO Enabled: false


CHART NO. MC MP-2000-1H
8/8/2022
METER
CHART PUT ON
LOCATION
REMARKS
TAKEN OFF
8-8-22
Swabbing Dispose #1
Rigged up Swab Unit
Opened up Well
Swabbed Well
Closed in Well
Rigged down Swab Unit

Received by OCD: 10/2/2023 3:49:18 PM

NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC NM 87410
(505) 334-6178 FAX: (505) 334-6170
http://emnrd.state.nm.us/ocd/District III/3district.htm

BRADENHEAD TEST REPORT

(submit 1 copy to above address)

Date of Test 8-8-22 Operator Agua Moss API #30-0 45 28653

Property Name Sunco Disp Well No. 1 Location; Unit E Section 2 Township 29 Range 12

Well Status(Shut-In or Producing) Initial PSI: Tubing 1360 Intermediate N/A Casing 300 Bradenhead 0

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

PRESSURE

Testing	Bradenhead BH	Bradenhead Int	Bradenhead Csg	INTERM Int	INTERM Csg
TIME 5 min	0		300		
10 min	0		300		
15 min	0		300		
20 min					
25 min					
30 min					

FLOW CHARACTERISTICS

	BRADENHEAD	INTERMEDIATE
Steady Flow		
Surges		
Down to Nothing		
Nothing	✓	
Gas		
Gas & Water		
Water		

If bradenhead flowed water, check all of the descriptions that apply below:

CLEAR____ FRESH____ SALTY____ SULFUR____ BLACK____

5 MINUTE SHUT-IN PRESSURE BRADENHEAD____ INTERMEDIATE N/A

REMARKS: Nothing when opened Nothing when opened after 5 min Shut in

By____ Witness Monica Kuehling

(Position)

Released to Imaging: 10/2/2023 4:00:31 PM

Appendix D

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-138
Revised 08/01/11

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

2. Originating Site:
San Juan Manzanares Compressor Station

3. Location of Material (Street Address, City, State or ULSTR):
UL H Section 17 Township 29 North Range 9 West; 36.726358, -107.794560, San Juan County, NM

4. Source and Description of Waste:
Source: Water/Oil from the Non Exempt WasteWater Tanks and from the compressor skid drains.
Description: Non Exempt/Non Hazardous Water from the compressor skids.
Estimated Volume _80__ yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd^3 / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long, representative or authorized agent for Enterprise Products Operating do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. ***Operator Use Only: Waste Acceptance Frequency*** ☐ ***Monthly*** ☐ ***Weekly*** ☐ ***Per Load***

☒ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☒ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long, representative for Enterprise Products Operating authorize to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for _____Agua Moss, LLC_____ do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: Various Apporved Trucking

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: ***Agua Moss, LLC - Permit #: NM-01-009**
Address of Facility: **SW/4 NW/4 Section 2, Township 29N, Range Crouch Mesa, NM**

Method of Treatment and/or Disposal:
☐ Evaporation ☒ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☐ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: _____ TITLE: _____ DATE: _____
SIGNATURE: _____ TELEPHONE NO.: _____
Surface Waste Management Facility Authorized Agent

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-138
Revised 08/01/11

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

2. Originating Site:
MAPL Lyborrk Pumping Station

3. Location of Material (Street Address, City, State or ULSTR):
UL C Section 14 Township 23 North Range 7 West; 36.232901, -107.545978

4. Source and Description of Waste:
Source: Water/Oil from the Non Exempt WasteWater Tanks and from the compressor skid drains.
Description: Non Exempt/Non Hazardous Water from the compressor skids.
Estimated Volume 80 yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd^3 / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long, representative or authorized agent for Enterprise Products Operating do hereby
Generator Signature
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☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. ***Operator Use Only: Waste Acceptance Frequency*** ☐ ***Monthly*** ☐ ***Weekly*** ☐ ***Per Load***

☒ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☒ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long, representative for Enterprise Products Operating authorize to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for _____Agua Moss, LLC_____ do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: To Be Determined

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: ***Agua Moss, LLC - Permit #: NM-01-009**
Address of Facility: **SW/4 NW/4 Section 2, Township 29N, Range Crouch Mesa, NM**

Method of Treatment and/or Disposal:
☐ Evaporation ☒ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☐ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: _____ TITLE: _____ DATE: _____
SIGNATURE: _____ TELEPHONE NO.: _____
Surface Waste Management Facility Authorized Agent

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-138
Revised 08/01/11

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

2. Originating Site:
MAPL San Luis Pumping Station

3. Location of Material (Street Address, City, State or ULSTR):
UL F Section 13 Township 17 North Range 3 East; 35.704883, -107.106298

4. Source and Description of Waste:
Source: Water/Oil from the Non Exempt WasteWater Tanks and from the compressor skid drains.
Description: Non Exempt/Non Hazardous Water from the compressor skids.
Estimated Volume 80 yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd^3 / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long, representative or authorized agent for Enterprise Products Operating do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. ***Operator Use Only: Waste Acceptance Frequency*** ☐ ***Monthly*** ☐ ***Weekly*** ☐ ***Per Load***

☒ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☒ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long, representative for Enterprise Products Operating authorize to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for _____Agua Moss, LLC_____ do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: To Be Determined

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: ***Agua Moss, LLC - Permit #: NM-01-009**
Address of Facility: **SW/4 NW/4 Section 2, Township 29N, Range Crouch Mesa, NM**

Method of Treatment and/or Disposal:
☐ Evaporation ☒ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☐ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: _____ TITLE: _____ DATE: _____
SIGNATURE: _____ TELEPHONE NO.: _____
Surface Waste Management Facility Authorized Agent

District I
1625 N. French Dr., Hobbs, NM 88240
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1301 W. Grand Avenue, Artesia, NM 88210
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1000 Rio Brazos Road, Aztec, NM 87410
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1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-138
Revised 08/01/11

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

2. Originating Site:
Turley Compressor Station

3. Location of Material (Street Address, City, State or ULSTR):
UL E Section 33 Township 30 North Range 10 West; 36.768778, --107.792025, San Juan County, NM

4. Source and Description of Waste:
Source: Water/Oil from the Non Exempt WasteWater Tanks and from the compressor skid drains.
Description: Non Exempt/Non Hazardous Water from the compressor skids.
Estimated Volume _80__ yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd^3 / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long, representative or authorized agent for Enterprise Products Operating do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. ***Operator Use Only: Waste Acceptance Frequency*** ☐ ***Monthly*** ☐ ***Weekly*** ☐ ***Per Load***

☒ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☒ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long, representative for Enterprise Products Operating authorize to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for _____Agua Moss, LLC_____ do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: To Be Determined

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: ***Agua Moss, LLC - Permit #: NM-01-009**
Address of Facility: **SW/4 NW/4 Section 2, Township 29N, Range Crouch Mesa, NM**

Method of Treatment and/or Disposal:
☐ Evaporation ☒ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☐ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: _____ TITLE: _____ DATE: _____
SIGNATURE: _____ TELEPHONE NO.: _____
Surface Waste Management Facility Authorized Agent

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2204935**
Date Reported:

CLIENT: Souder, Miller and Associates
Project: Enterprise Turley CS
Lab ID: 2204935-001 **Matrix:** AQUEOUS

Client Sample ID: Non-Exempt Tank
Collection Date: 4/20/2022 11:05:00 AM
Received Date: 4/21/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 7470A: MERCURY						Analyst: **VP**	
Mercury	ND	0.020		mg/L	1	4/25/2022 12:22:32 PM	67038
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **JLF**	
Arsenic	ND	5.0		mg/L	1	4/25/2022 2:22:55 PM	67003
Barium	ND	100		mg/L	1	4/25/2022 2:22:55 PM	67003
Cadmium	ND	1.0		mg/L	1	4/25/2022 2:22:55 PM	67003
Chromium	ND	5.0		mg/L	1	4/25/2022 2:22:55 PM	67003
Lead	ND	5.0		mg/L	1	4/25/2022 3:45:25 PM	67003
Selenium	ND	1.0		mg/L	1	4/25/2022 2:22:55 PM	67003
Silver	ND	5.0		mg/L	1	4/25/2022 2:22:55 PM	67003
EPA METHOD 8270SIM						Analyst: **DAM**	
Naphthalene	1.0	1.0	D	µg/L	10	4/26/2022 9:04:00 PM	66971
1-Methylnaphthalene	ND	1.0	D	µg/L	10	4/26/2022 9:04:00 PM	66971
2-Methylnaphthalene	ND	1.0	D	µg/L	10	4/26/2022 9:04:00 PM	66971
Acenaphthylene	ND	1.0	D	µg/L	10	4/26/2022 9:04:00 PM	66971
Acenaphthene	ND	1.0	D	µg/L	10	4/26/2022 9:04:00 PM	66971
Fluorene	ND	1.0	D	µg/L	10	4/26/2022 9:04:00 PM	66971
Phenanthrene	ND	1.0	D	µg/L	10	4/26/2022 9:04:00 PM	66971
Anthracene	ND	1.0	D	µg/L	10	4/26/2022 9:04:00 PM	66971
Fluoranthene	ND	2.0	D	µg/L	10	4/26/2022 9:04:00 PM	66971
Pyrene	ND	2.0	D	µg/L	10	4/26/2022 9:04:00 PM	66971
Benz(a)anthracene	ND	1.0	D	µg/L	10	4/26/2022 9:04:00 PM	66971
Chrysene	ND	1.0	D	µg/L	10	4/26/2022 9:04:00 PM	66971
Benzo(b)fluoranthene	ND	1.0	D	µg/L	10	4/26/2022 9:04:00 PM	66971
Benzo(k)fluoranthene	ND	1.0	D	µg/L	10	4/26/2022 9:04:00 PM	66971
Benzo(a)pyrene	ND	0.70	D	µg/L	10	4/26/2022 9:04:00 PM	66971
Dibenz(a,h)anthracene	ND	1.0	D	µg/L	10	4/26/2022 9:04:00 PM	66971
Benzo(g,h,i)perylene	ND	1.0	D	µg/L	10	4/26/2022 9:04:00 PM	66971
Indeno(1,2,3-cd)pyrene	ND	3.0	D	µg/L	10	4/26/2022 9:04:00 PM	66971
Surr: Nitrobenzene-d5	0	31.6-100	SD	%Rec	10	4/26/2022 9:04:00 PM	66971
Surr: 2-Fluorobiphenyl	0	26.7-90.1	SD	%Rec	10	4/26/2022 9:04:00 PM	66971
Surr: 4-Terphenyl-d14	0	72.3-147	SD	%Rec	10	4/26/2022 9:04:00 PM	66971
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.50		mg/L	200	4/22/2022 12:23:00 AM	R87440
Toluene	0.57	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
Ethylbenzene	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
Methyl tert-butyl ether (MTBE)	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
1,2,4-Trimethylbenzene	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
1,3,5-Trimethylbenzene	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440

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

Qualifiers:

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

Analytical Report
Lab Order **2204935**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Project: Enterprise Turley CS
Lab ID: 2204935-001 **Matrix:** AQUEOUS

Client Sample ID: Non-Exempt Tank
Collection Date: 4/20/2022 11:05:00 AM
Received Date: 4/21/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
1,2-Dichloroethane (EDC)	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
1,2-Dibromoethane (EDB)	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
Naphthalene	ND	0.40		mg/L	200	4/22/2022 12:23:00 AM	R87440
1-Methylnaphthalene	ND	0.80		mg/L	200	4/22/2022 12:23:00 AM	R87440
2-Methylnaphthalene	ND	0.80		mg/L	200	4/22/2022 12:23:00 AM	R87440
Acetone	ND	2.0		mg/L	200	4/22/2022 12:23:00 AM	R87440
Bromobenzene	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
Bromodichloromethane	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
Bromoform	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
Bromomethane	ND	0.60		mg/L	200	4/22/2022 12:23:00 AM	R87440
2-Butanone	ND	2.0		mg/L	200	4/22/2022 12:23:00 AM	R87440
Carbon disulfide	ND	2.0		mg/L	200	4/22/2022 12:23:00 AM	R87440
Carbon Tetrachloride	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
Chlorobenzene	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
Chloroethane	ND	0.40		mg/L	200	4/22/2022 12:23:00 AM	R87440
Chloroform	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
Chloromethane	ND	0.60		mg/L	200	4/22/2022 12:23:00 AM	R87440
2-Chlorotoluene	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
4-Chlorotoluene	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
cis-1,2-DCE	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
cis-1,3-Dichloropropene	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
1,2-Dibromo-3-chloropropane	ND	0.40		mg/L	200	4/22/2022 12:23:00 AM	R87440
Dibromochloromethane	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
Dibromomethane	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
1,2-Dichlorobenzene	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
1,3-Dichlorobenzene	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
1,4-Dichlorobenzene	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
Dichlorodifluoromethane	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
1,1-Dichloroethane	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
1,1-Dichloroethene	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
1,2-Dichloropropane	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
1,3-Dichloropropane	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
2,2-Dichloropropane	ND	0.40		mg/L	200	4/22/2022 12:23:00 AM	R87440
1,1-Dichloropropene	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
Hexachlorobutadiene	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
2-Hexanone	ND	2.0		mg/L	200	4/22/2022 12:23:00 AM	R87440
Isopropylbenzene	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
4-Isopropyltoluene	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
4-Methyl-2-pentanone	ND	2.0		mg/L	200	4/22/2022 12:23:00 AM	R87440

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

Qualifiers:

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

Analytical Report
Lab Order **2204935**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Project: Enterprise Turley CS
Lab ID: 2204935-001 **Matrix:** AQUEOUS

Client Sample ID: Non-Exempt Tank
Collection Date: 4/20/2022 11:05:00 AM
Received Date: 4/21/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Methylene Chloride	ND	0.60		mg/L	200	4/22/2022 12:23:00 AM	R87440
n-Butylbenzene	ND	0.60		mg/L	200	4/22/2022 12:23:00 AM	R87440
n-Propylbenzene	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
sec-Butylbenzene	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
Styrene	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
tert-Butylbenzene	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
1,1,1,2-Tetrachloroethane	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
1,1,2,2-Tetrachloroethane	ND	0.40		mg/L	200	4/22/2022 12:23:00 AM	R87440
Tetrachloroethene (PCE)	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
trans-1,2-DCE	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
trans-1,3-Dichloropropene	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
1,2,3-Trichlorobenzene	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
1,2,4-Trichlorobenzene	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
1,1,1-Trichloroethane	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
1,1,2-Trichloroethane	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
Trichloroethene (TCE)	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
Trichlorofluoromethane	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
1,2,3-Trichloropropane	ND	0.40		mg/L	200	4/22/2022 12:23:00 AM	R87440
Vinyl chloride	ND	0.20		mg/L	200	4/22/2022 12:23:00 AM	R87440
Xylenes, Total	ND	0.30		mg/L	200	4/22/2022 12:23:00 AM	R87440
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	200	4/22/2022 12:23:00 AM	R87440
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	200	4/22/2022 12:23:00 AM	R87440
Surr: Dibromofluoromethane	102	70-130		%Rec	200	4/22/2022 12:23:00 AM	R87440
Surr: Toluene-d8	92.4	70-130		%Rec	200	4/22/2022 12:23:00 AM	R87440

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

Qualifiers:

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

SAMPLE RESULTS - 01

L1485220

Collected date/time: 04/20/22 11:05

Wet Chemistry by Method 4500 CN E-2016

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Reactive Cyanide	ND		0.00500	1	05/03/2022 14:10	WG1854335

Wet Chemistry by Method 4500 S2 D-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Reactive Sulfide	ND		0.0500	1	04/23/2022 15:45	WG1853319

Wet Chemistry by Method 9040C

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
Corrosivity by pH	5.56	T8	1	04/26/2022 15:00	WG1854366

Sample Narrative:

L1485220-01 WG1854366: 5.56 at 18.3C

Wet Chemistry by Method D93/1010A

Analyte	Result deg F	Qualifier	Dilution	Analysis date / time	Batch
Flashpoint	DNF at 170		1	04/28/2022 01:00	WG1855415

Received by OCD: 10/2/2023 3:49:18 PM

ENTRPRISE

TURLEY COMPRESSOR — 82
CHACO PLANT — 3052
ANGEL PEAK 3 COMP. STA. — 72
POTTER COMP. STA. — 135
SJ MANZANARES COMP. STA. — 220
LINDRITH COMP. STA. — 80
HART CANYON COMP. ST. #2 — 64
LARGO COMP. STA. — 77
BALLARD COMP. STA. — 152
KUTZ COMP. STA. — 135

ENTERPRISE - MAPL

DOVE CREEK PUMPING STA. — 35
HUERFANO PUMPING STA. — 82
DOLORES PUMPING STA. — 20
SAN LUIS PUMPING STA. — 40
LYBROOK PUMPING STA. — 60

HEAVY OIL SOLUTION

SJ COLLEGE — 138

NM GAS CO

ALB KUTZ TO POE MAINLINE — 1140

TACITAS

NAVASO TRIBAL U #016 — 1250

Released to Imaging: 10/2/2023 4:00:31 PM

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

February 24, 2022

Ashley Maxwell

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

RE: Enterprise Manzaneres CS OrderNo.: 2201A45

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/27/2022 for the analyses presented in the following report.

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

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

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

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2201A45**
Date Reported: **2/24/2022**

CLIENT: Souder, Miller and Associates
Project: Enterprise Manzaneres CS
Lab ID: 2201A45-001 **Matrix:** AQUEOUS

Client Sample ID: Non-Exempt Tank
Collection Date: 1/26/2022 12:55:00 PM
Received Date: 1/27/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 6020A: TOTAL METALS						Analyst:	**DBK**
Arsenic	ND	5.0		mg/L	1	2/1/2022 3:48:20 PM	65251
Lead	ND	5.0		mg/L	1	2/1/2022 3:48:20 PM	65251
Selenium	ND	1.0		mg/L	1	2/1/2022 3:48:20 PM	65251
EPA METHOD 7470A: MERCURY						Analyst:	**VP**
Mercury	ND	0.020		mg/L	1	2/15/2022 8:56:08 AM	65535
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst:	**JLF**
Barium	ND	100		mg/L	1	2/1/2022 4:17:18 PM	65251
Cadmium	ND	1.0		mg/L	1	2/1/2022 4:17:18 PM	65251
Chromium	ND	5.0		mg/L	1	2/1/2022 4:17:18 PM	65251
Silver	ND	5.0		mg/L	1	2/1/2022 4:17:18 PM	65251
EPA METHOD 8270SIM						Analyst:	**TOM**
Naphthalene	ND	1.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
1-Methylnaphthalene	ND	1.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
2-Methylnaphthalene	ND	1.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Acenaphthylene	ND	1.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Acenaphthene	ND	1.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Fluorene	ND	1.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Phenanthrene	ND	1.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Anthracene	ND	1.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Fluoranthene	ND	2.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Pyrene	ND	2.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Benz(a)anthracene	ND	1.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Chrysene	ND	1.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Benzo(b)fluoranthene	ND	1.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Benzo(k)fluoranthene	ND	1.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Benzo(a)pyrene	ND	0.70	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Dibenz(a,h)anthracene	ND	1.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Benzo(g,h,i)perylene	ND	1.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Indeno(1,2,3-cd)pyrene	ND	3.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Surr: Nitrobenzene-d5	0	21.9-89.8	SD	%Rec	10	2/10/2022 3:09:00 PM	65306
Surr: 2-Fluorobiphenyl	0	15-84.5	SD	%Rec	10	2/10/2022 3:09:00 PM	65306
Surr: 4-Terphenyl-d14	0	73.1-152	SD	%Rec	10	2/10/2022 3:09:00 PM	65306
EPA METHOD 8260B: VOLATILES						Analyst:	**JR**
Benzene	ND	0.50	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Toluene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Ethylbenzene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Methyl tert-butyl ether (MTBE)	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520

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

Qualifiers:

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

Analytical Report
Lab Order **2201A45**
Date Reported: **2/24/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Non-Exempt Tank
Project: Enterprise Manzaneres CS
Collection Date: 1/26/2022 12:55:00 PM
Lab ID: 2201A45-001 **Matrix:** AQUEOUS **Received Date:** 1/27/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
1,2,4-Trimethylbenzene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,3,5-Trimethylbenzene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,2-Dichloroethane (EDC)	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,2-Dibromoethane (EDB)	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Naphthalene	ND	0.40	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1-Methylnaphthalene	ND	0.80	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
2-Methylnaphthalene	ND	0.80	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Acetone	ND	2.0	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Bromobenzene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Bromodichloromethane	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Bromoform	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Bromomethane	ND	0.60	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
2-Butanone	ND	2.0	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Carbon disulfide	ND	2.0	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Carbon Tetrachloride	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Chlorobenzene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Chloroethane	ND	0.40	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Chloroform	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Chloromethane	ND	0.60	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
2-Chlorotoluene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
4-Chlorotoluene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
cis-1,2-DCE	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
cis-1,3-Dichloropropene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,2-Dibromo-3-chloropropane	ND	0.40	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Dibromochloromethane	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Dibromomethane	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,2-Dichlorobenzene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,3-Dichlorobenzene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,4-Dichlorobenzene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Dichlorodifluoromethane	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,1-Dichloroethane	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,1-Dichloroethene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,2-Dichloropropane	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,3-Dichloropropane	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
2,2-Dichloropropane	ND	0.40	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,1-Dichloropropene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Hexachlorobutadiene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
2-Hexanone	ND	2.0	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Isopropylbenzene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520

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

Qualifiers:

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

Analytical Report
Lab Order **2201A45**
Date Reported: **2/24/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Project: Enterprise Manzaneres CS
Lab ID: 2201A45-001 **Matrix:** AQUEOUS

Client Sample ID: Non-Exempt Tank
Collection Date: 1/26/2022 12:55:00 PM
Received Date: 1/27/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
4-Isopropyltoluene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
4-Methyl-2-pentanone	ND	2.0	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Methylene Chloride	ND	0.60	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
n-Butylbenzene	ND	0.60	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
n-Propylbenzene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
sec-Butylbenzene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Styrene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
tert-Butylbenzene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,1,1,2-Tetrachloroethane	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,1,2,2-Tetrachloroethane	ND	0.40	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Tetrachloroethene (PCE)	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
trans-1,2-DCE	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
trans-1,3-Dichloropropene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,2,3-Trichlorobenzene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,2,4-Trichlorobenzene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,1,1-Trichloroethane	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,1,2-Trichloroethane	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Trichloroethene (TCE)	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Trichlorofluoromethane	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,2,3-Trichloropropane	ND	0.40	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Vinyl chloride	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Xylenes, Total	ND	0.30	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Surr: 1,2-Dichloroethane-d4	103	70-130	P	%Rec	200	1/31/2022 9:19:58 PM	R85520
Surr: 4-Bromofluorobenzene	106	70-130	P	%Rec	200	1/31/2022 9:19:58 PM	R85520
Surr: Dibromofluoromethane	113	70-130	P	%Rec	200	1/31/2022 9:19:58 PM	R85520
Surr: Toluene-d8	95.8	70-130	P	%Rec	200	1/31/2022 9:19:58 PM	R85520

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

Qualifiers:

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

Pace Analytical®

ANALYTICAL REPORT

February 08, 2022

Hall Environmental Analysis Laboratory

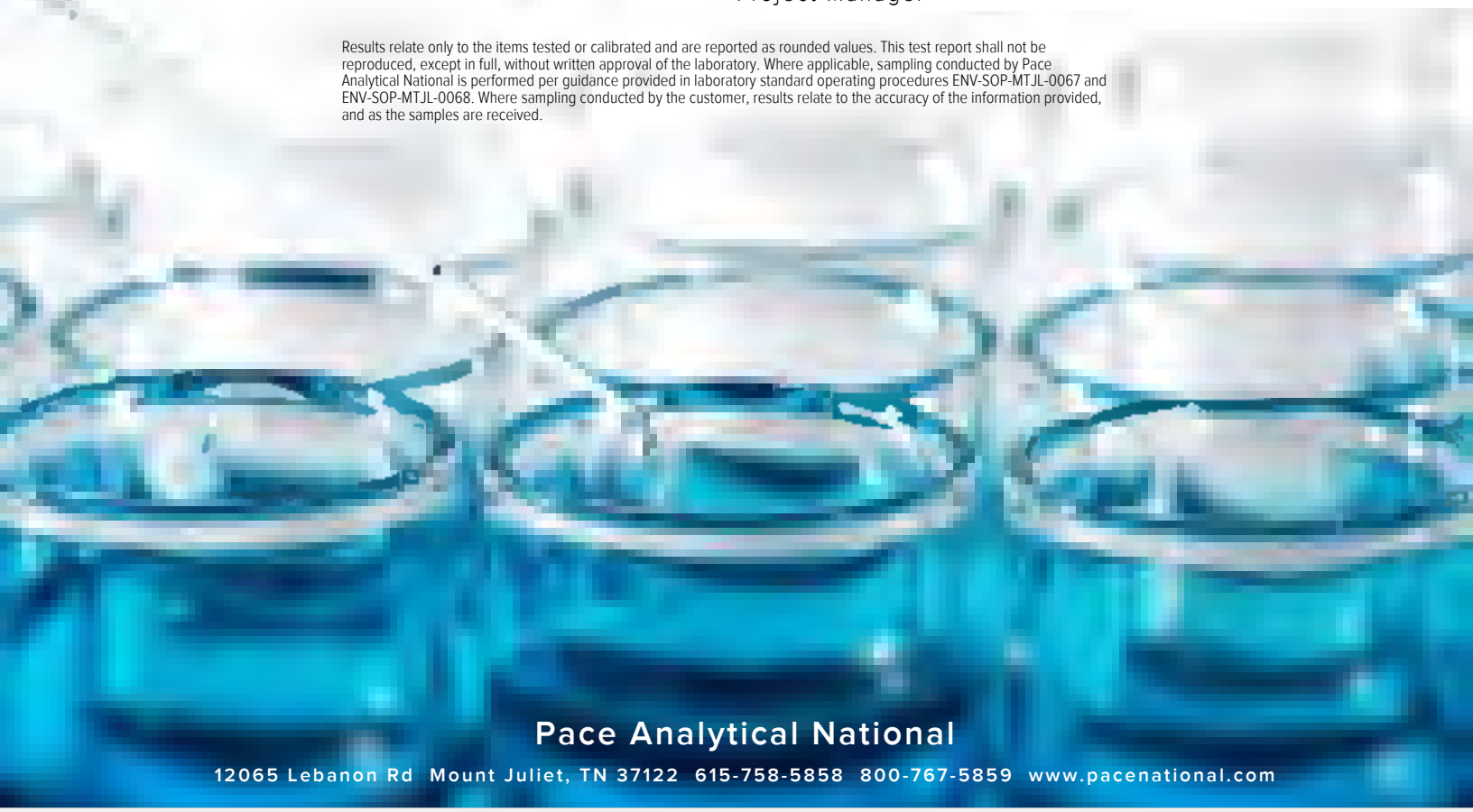
Sample Delivery Group:	L1455960
Samples Received:	01/28/2022
Project Number:	
Description:	

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

Entire Report Reviewed By: John V Hawkins

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

TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

2201A45-001DEF NON-EXEMPT TANK L1455960-01 5

Qc: Quality Control Summary 6

Wet Chemistry by Method 4500 CN E-2016 6

Wet Chemistry by Method 4500 S2 D-2011 7

Wet Chemistry by Method 9040C 8

Wet Chemistry by Method D93/1010A 9

Gl: Glossary of Terms 10

Al: Accreditations & Locations 11

Sc: Sample Chain of Custody 12

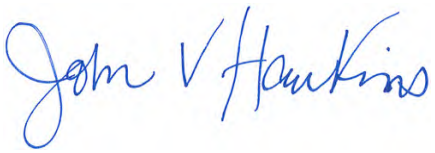
SAMPLE SUMMARY

2201A45-001DEF NON-EXEMPT TANK L1455960-01 GW

Collected by	Collected date/time	Received date/time
	01/26/22 12:55	01/28/22 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 4500 CN E-2016	WG1813644	1	02/07/22 11:36	02/07/22 17:21	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500 S2 D-2011	WG1810112	1	01/29/22 13:28	01/29/22 13:28	AW	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG1810146	1	01/29/22 15:00	01/29/22 15:00	GI	Mt. Juliet, TN
Wet Chemistry by Method D93/1010A	WG1810976	1	02/01/22 00:12	02/01/22 00:12	WOS	Mt. Juliet, TN

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



John Hawkins
Project Manager

Project Narrative

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

Wet Chemistry by Method 4500 CN E-2016

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Cyanide	ND		0.00500	1	02/07/2022 17:21	WG1813644

Wet Chemistry by Method 4500 S2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Sulfide	ND		0.0500	1	01/29/2022 13:28	WG1810112

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
Corrosivity by pH	6.57	T8	1	01/29/2022 15:00	WG1810146

Sample Narrative:

L1455960-01 WG1810146: 6.57 at 15.6C

Wet Chemistry by Method D93/1010A

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	deg F			date / time	
Flashpoint	DNF at 170		1	02/01/2022 00:12	WG1810976

Wet Chemistry by Method 4500 CN E-2016

Method Blank (MB)

(MB) R3757767-1 02/07/22 17:00

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

L1455021-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1455021-02 02/07/22 18:42 • (DUP) R3757767-5 02/07/22 18:43

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

L1455881-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1455881-01 02/07/22 18:44 • (DUP) R3757767-6 02/07/22 18:46

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

Laboratory Control Sample (LCS)

(LCS) R3757767-2 02/07/22 17:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Cyanide	0.100	0.105	105	87.1-120	

L1455960-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1455960-01 02/07/22 17:21 • (MS) R3757767-3 02/07/22 17:22 • (MSD) R3757767-4 02/07/22 18:18

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	ND	0.0968	0.0943	96.8	94.3	1	90.0-110			2.62	20

Method Blank (MB)

(MB) R3754894-1 01/29/22 13:15

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

Laboratory Control Sample (LCS)

(LCS) R3754894-2 01/29/22 13:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Sulfide	0.500	0.506	101	85.0-115	

Received by OCD: 10/2/2023 3:49:18 PM

L1455948-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1455948-01 01/29/22 15:00 • (DUP) R3754909-2 01/29/22 15:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
Corrosivity by pH	6.92	6.94	1	0.289		1

Sample Narrative:

OS: 6.92 at 16.2C

DUP: 6.94 at 16.2C

L1455953-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1455953-01 01/29/22 15:00 • (DUP) R3754909-3 01/29/22 15:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
Corrosivity by pH	6.94	6.91	1	0.433		1

Sample Narrative:

OS: 6.94 at 16C

DUP: 6.91 at 15.5C

Laboratory Control Sample (LCS)

(LCS) R3754909-1 01/29/22 15:00

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

Sample Narrative:

LCS: 10 at 17C

Released to Imaging: 10/2/2023 4:00:31 PM

L1456189-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1456189-02 02/01/22 00:12 • (DUP) R3755471-3 02/01/22 00:12

Analyte	Original Result deg F	DUP Result deg F	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Flashpoint	110	116	1	5.33		10

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

(LCS) R3755471-1 02/01/22 00:12 • (LCSD) R3755471-2 02/01/22 00:12

Analyte	Spike Amount deg F	LCS Result deg F	LCSD Result deg F	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Flashpoint	126	126	126	99.7	99.7	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

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

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

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

Received by OCD: 10/2/2023 3:49:18 PM

ENVIRONMENTAL ANALYSIS LABORATORY

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

A235

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

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

L1455960

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2201A45-001D	Non-Exempt Tank	500HDPE	Aqueous	1/26/2022 12:55:00 PM	1	RCI
2	2201A45-001E	Non-Exempt Tank	500PLNAOH ZNAC	Aqueous	1/26/2022 12:55:00 PM	1	RCI
3	2201A45-001F	Non-Exempt Tank	500PL-NaOH	Aqueous	1/26/2022 12:55:00 PM	1	RCI

5528 5947 9889

Sample Receipt Checklist

COC Seal Present Intact: Y N
COC Signed Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
PAD Screen <0.5 R hr: Y N

If Applicable
VOA Zero Headspace: Y N
Preservative Correct/Check: Y N

7/2 RCV

NSA6 2.2+0=2.2

SPECIAL INSTRUCTIONS / COMMENTS:

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

Relinquished By:	Date: 1/27/2022	Time: 10:59 AM	Received By:	Date: 1/28/22	Time: 945
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

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

REPORT TRANSMITTAL DESIRED
☐ HARD COPY extra cost ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY
Temp of samples: ____ °C Attempt to Cool: ____
Comments: ____

Released to Imaging: 10/2/2023 4:00:31 PM

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201A45**
24-Feb-22

Client: Souder, Miller and Associates
Project: Enterprise Manzaneres CS

Sample ID: **MB-65251**	SampType: **MBLK**	TestCode: **EPA Method 6020A: Total Metals**
Client ID: **PBW**	Batch ID: **65251**	RunNo: **85532**
Prep Date: **1/27/2022**	Analysis Date: **2/1/2022**	SeqNo: **3010604** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Lead	ND	0.0010								
Selenium	ND	0.0010								

Sample ID: **MSLCS-65251**	SampType: **LCS**	TestCode: **EPA Method 6020A: Total Metals**
Client ID: **LCSW**	Batch ID: **65251**	RunNo: **85532**
Prep Date: **1/27/2022**	Analysis Date: **2/1/2022**	SeqNo: **3010606** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.048	0.0010	0.05000	0	96.5	80	120			
Lead	0.046	0.0010	0.05000	0	92.4	80	120			
Selenium	0.048	0.0010	0.05000	0	95.7	80	120			

Sample ID: **MSLLLCS-65251**	SampType: **LCSLL**	TestCode: **EPA Method 6020A: Total Metals**
Client ID: **BatchQC**	Batch ID: **65251**	RunNo: **85532**
Prep Date: **1/27/2022**	Analysis Date: **2/1/2022**	SeqNo: **3010608** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.010	0.01000	0	97.3	70	130			
Lead	ND	0.010	0.01000	0	96.4	70	130			
Selenium	ND	0.010	0.01000	0	92.5	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201A45**
24-Feb-22

Client: Souder, Miller and Associates
Project: Enterprise Manzaneres CS

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R85520**	RunNo: **85520**
Prep Date:	Analysis Date: **1/31/2022**	SeqNo: **3009867** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	93.3	70	130			
Toluene	19	1.0	20.00	0	95.1	70	130			
Chlorobenzene	20	1.0	20.00	0	100	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	95.4	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	93.8	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		97.0	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130			
Surr: Dibromofluoromethane	11		10.00		107	70	130			
Surr: Toluene-d8	9.9		10.00		99.1	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R85520**	RunNo: **85520**
Prep Date:	Analysis Date: **1/31/2022**	SeqNo: **3009882** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201A45**
24-Feb-22

Client: Souder, Miller and Associates
Project: Enterprise Manzaneres CS

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R85520**	RunNo: **85520**
Prep Date:	Analysis Date: **1/31/2022**	SeqNo: **3009882** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201A45**
24-Feb-22

Client: Souder, Miller and Associates
Project: Enterprise Manzaneres CS

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R85520**	RunNo: **85520**
Prep Date:	Analysis Date: **1/31/2022**	SeqNo: **3009882** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		105	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130			
Surr: Dibromofluoromethane	11		10.00		111	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201A45**
24-Feb-22

Client: Souder, Miller and Associates
Project: Enterprise Manzaneres CS

Sample ID: **mb-65306** SampType: **MBLK** TestCode: **EPA Method 8270SIM**
Client ID: **PBW** Batch ID: **65306** RunNo: **85763**
Prep Date: **2/1/2022** Analysis Date: **2/10/2022** SeqNo: **3019423** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.10								
1-Methylnaphthalene	ND	0.10								
2-Methylnaphthalene	ND	0.10								
Acenaphthylene	ND	0.10								
Acenaphthene	ND	0.10								
Fluorene	ND	0.10								
Phenanthrene	ND	0.10								
Anthracene	ND	0.10								
Fluoranthene	ND	0.20								
Pyrene	ND	0.20								
Benz(a)anthracene	ND	0.10								
Chrysene	ND	0.10								
Benzo(b)fluoranthene	ND	0.10								
Benzo(k)fluoranthene	ND	0.10								
Benzo(a)pyrene	ND	0.070								
Dibenz(a,h)anthracene	ND	0.10								
Benzo(g,h,i)perylene	ND	0.10								
Indeno(1,2,3-cd)pyrene	ND	0.30								
Surr: Nitrobenzene-d5	2.4		4.000		59.0	21.9	89.8			
Surr: 2,4,6-Tribromophenol	4.9		8.000		61.0	23.4	71.6			
Surr: 2-Fluorobiphenyl	1.9		4.000		46.5	15	84.5			
Surr: 4-Terphenyl-d14	3.4		4.000		86.0	73.1	152			

Sample ID: **lcs-65306** SampType: **LCS** TestCode: **EPA Method 8270SIM**
Client ID: **LCSW** Batch ID: **65306** RunNo: **85763**
Prep Date: **2/1/2022** Analysis Date: **2/10/2022** SeqNo: **3019424** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	1.0	0.10	2.000	0	50.0	26.5	90.9			
1-Methylnaphthalene	1.0	0.10	2.000	0	52.0	27.9	88.2			
2-Methylnaphthalene	1.0	0.10	2.000	0	52.0	29.2	87.5			
Acenaphthylene	1.3	0.10	2.000	0	64.0	30	92.9			
Acenaphthene	1.1	0.10	2.000	0	55.0	25.6	93.9			
Fluorene	1.2	0.10	2.000	0	62.0	27.4	95.1			
Phenanthrene	1.3	0.10	2.000	0	66.0	25.1	104			
Anthracene	1.5	0.10	2.000	0	74.0	30.1	100			
Fluoranthene	2.0	0.20	2.000	0	101	41.6	126			
Pyrene	1.8	0.20	2.000	0	92.0	34.5	112			
Benz(a)anthracene	2.6	0.10	2.000	0	130	43.9	132			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201A45**
24-Feb-22

Client: Souder, Miller and Associates
Project: Enterprise Manzaneres CS

Sample ID: **lcs-65306**	SampType: **LCS**	TestCode: **EPA Method 8270SIM**							
Client ID: **LCSW**	Batch ID: **65306**	RunNo: **85763**							
Prep Date: **2/1/2022**	Analysis Date: **2/10/2022**	SeqNo: **3019424**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chrysene	1.8	0.10	2.000	0	88.0	39.8	118			
Benzo(b)fluoranthene	2.3	0.10	2.000	0	113	37.2	134			
Benzo(k)fluoranthene	2.0	0.10	2.000	0	98.0	43.8	122			
Benzo(a)pyrene	2.3	0.070	2.000	0	113	36.6	122			
Dibenz(a,h)anthracene	2.2	0.10	2.000	0	112	35.5	129			
Benzo(g,h,i)perylene	2.0	0.10	2.000	0	102	39.4	120			
Indeno(1,2,3-cd)pyrene	2.6	0.30	2.000	0	132	24.9	150			
Surr: Nitrobenzene-d5	3.9		5.000		77.6	21.9	89.8			
Surr: 2,4,6-Tribromophenol	8.1		10.00		80.8	23.4	71.6			S
Surr: 2-Fluorobiphenyl	2.9		5.000		58.8	15	84.5			
Surr: 4-Terphenyl-d14	6.0		5.000		121	73.1	152			

Sample ID: **lcsd-65306**	SampType: **LCSD**	TestCode: **EPA Method 8270SIM**							
Client ID: **LCSS02**	Batch ID: **65306**	RunNo: **85763**							
Prep Date: **2/1/2022**	Analysis Date: **2/10/2022**	SeqNo: **3019425**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	1.1	0.10	2.000	0	56.0	26.5	90.9	11.3	37.6	
1-Methylnaphthalene	1.1	0.10	2.000	0	57.0	27.9	88.2	9.17	33.1	
2-Methylnaphthalene	1.2	0.10	2.000	0	58.0	29.2	87.5	10.9	35.4	
Acenaphthylene	1.3	0.10	2.000	0	67.0	30	92.9	4.58	31.7	
Acenaphthene	1.2	0.10	2.000	0	61.0	25.6	93.9	10.3	36.3	
Fluorene	1.3	0.10	2.000	0	65.0	27.4	95.1	4.72	32.2	
Phenanthrene	1.3	0.10	2.000	0	67.0	25.1	104	1.50	32.9	
Anthracene	1.4	0.10	2.000	0	70.0	30.1	100	5.56	31.5	
Fluoranthene	1.9	0.20	2.000	0	93.0	41.6	126	8.25	26.5	
Pyrene	1.8	0.20	2.000	0	90.0	34.5	112	2.20	23.3	
Benz(a)anthracene	2.2	0.10	2.000	0	112	43.9	132	14.9	29.5	
Chrysene	1.8	0.10	2.000	0	91.0	39.8	118	3.35	22.3	
Benzo(b)fluoranthene	2.2	0.10	2.000	0	108	37.2	134	4.52	25.2	
Benzo(k)fluoranthene	1.9	0.10	2.000	0	97.0	43.8	122	1.03	23.1	
Benzo(a)pyrene	2.1	0.070	2.000	0	106	36.6	122	6.39	22.4	
Dibenz(a,h)anthracene	2.2	0.10	2.000	0	109	35.5	129	2.71	23.7	
Benzo(g,h,i)perylene	2.0	0.10	2.000	0	102	39.4	120	0	22.9	
Indeno(1,2,3-cd)pyrene	2.5	0.30	2.000	0	124	24.9	150	6.25	26.6	
Surr: Nitrobenzene-d5	4.0		5.000		79.2	21.9	89.8	0	0	
Surr: 2,4,6-Tribromophenol	6.9		10.00		69.2	23.4	71.6	0	0	
Surr: 2-Fluorobiphenyl	3.4		5.000		67.2	15	84.5	0	0	
Surr: 4-Terphenyl-d14	6.0		5.000		121	73.1	152	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201A45**
24-Feb-22

Client: Souder, Miller and Associates
Project: Enterprise Manzaneres CS

Sample ID: **MB-65535**	SampType: **MBLK**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **PBW**	Batch ID: **65535**	RunNo: **85827**
Prep Date: **2/14/2022**	Analysis Date: **2/15/2022**	SeqNo: **3022443** Units: **mg/L**

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

Sample ID: **LCSLL-65535**	SampType: **LCSLL**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **BatchQC**	Batch ID: **65535**	RunNo: **85827**
Prep Date: **2/14/2022**	Analysis Date: **2/15/2022**	SeqNo: **3022444** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020	0.0001500	0	119	50	150			

Sample ID: **LCS-65535**	SampType: **LCS**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **LCSW**	Batch ID: **65535**	RunNo: **85827**
Prep Date: **2/14/2022**	Analysis Date: **2/15/2022**	SeqNo: **3022445** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0050	0.00020	0.005000	0	99.9	85	115			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201A45**
24-Feb-22

Client: Souder, Miller and Associates
Project: Enterprise Manzaneres CS

Sample ID: **MB-65251**	SampType: **MBLK**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW**	Batch ID: **65251**	RunNo: **85585**
Prep Date: **1/27/2022**	Analysis Date: **2/1/2022**	SeqNo: **3012820** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Silver	ND	0.0050								

Sample ID: **LCS-65251**	SampType: **LCS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW**	Batch ID: **65251**	RunNo: **85585**
Prep Date: **1/27/2022**	Analysis Date: **2/1/2022**	SeqNo: **3012822** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.50	0.0020	0.5000	0	100	80	120			
Cadmium	0.51	0.0020	0.5000	0	102	80	120			
Chromium	0.50	0.0060	0.5000	0	100	80	120			
Silver	0.10	0.0050	0.1000	0	100	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Souder, Miller and Associates

Work Order Number: 2201A45

RcptNo: 1

Received By: Cheyenne Cason 1/27/2022 8:00:00 AM

Completed By: Sean Livingston 1/27/2022 8:59:25 AM

Reviewed By: JN 1/27/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

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

# of preserved bottles checked for pH: 1 2 (<2 or >12 unless noted)

Adjusted? NO

Checked by: CMC 1/27/22

Special Handling (if applicable)

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

Person Notified: Date:

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

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.9	Good	Yes			
2	-0.9	Good	Yes			

Released to Imaging: 10/2/2023 4:00:31 PM
Received by OCD: 10/2/2023 3:49:18 PM

Chain-of-Custody Record

Client: Souder, Miller & Associates

401 West Broadway

Mailing Address: Farmington, N.M 8740

Phone #: (505) 325-7535

email or Fax#: Ashley.Maxwell@sodermiller.com

QA/QC Package: tjlong@eprod.com

☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name: Enterprise Manzaneres CS

Project #:

Project Manager: Ashley Maxwell

Sampler: Heather Woods

On Ice: ☒ Yes ☐ No

# of Coolers: 2 1.9-0=1.9

Cooler Temp (including CF): -0.9-0=-0.9 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2201A45	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA) Full List	8270 (Semi-VOA)	Total Coliform (Present/Absent)	PCI
1/26/22	1255	Aq	Non-Exempt Tank	(1) 1L Amber	Non	001					X	X		X			X
				(3) 40mL VOA	$HgCl_2$												
				(1) 125mL Plastic	HNO_3												
				(1) 125mL Plastic	2mL Acetate NaOH												
				(1) 125mL Plastic	NaOH												
				(1) 125mL Plastic	Non												

Remarks:

TCLP compounds at TCLP Limits

Invoice Enterprise CC Tom Long

Samples not frozen cm 1/27/22

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
1/26/22	1616	Heather M. Woods	Chantel Ward		1/26/22	1616
1/26/22	1754	Chantel Ward	CMC courier		1/27/22	0800

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

March 21, 2022

Ashley Maxwell

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

RE: Enterprise Lybrook CS OrderNo.: 2203366

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/5/2022 for the analyses presented in the following report.

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

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

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

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2203366**
Date Reported: **3/21/2022**

CLIENT: Souder, Miller and Associates
Client Sample ID: Non-Exempt Tank
Project: Enterprise Lybrook CS
Collection Date: 3/4/2022 12:00:00 PM
Lab ID: 2203366-001 **Matrix:** AQUEOUS **Received Date:** 3/5/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 6020A: TOTAL METALS						Analyst:	**DBK**
Arsenic	ND	5.0		mg/L	1	3/11/2022 2:39:56 PM	66043
Lead	ND	5.0		mg/L	1	3/11/2022 2:39:56 PM	66043
Selenium	ND	1.0		mg/L	1	3/11/2022 2:39:56 PM	66043
EPA METHOD 7470A: MERCURY						Analyst:	**VP**
Mercury	ND	0.020		mg/L	5	3/11/2022 6:17:49 PM	66107
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst:	**JLF**
Barium	ND	100		mg/L	1	3/16/2022 3:49:41 PM	66043
Cadmium	ND	1.0		mg/L	1	3/16/2022 3:49:41 PM	66043
Chromium	ND	5.0		mg/L	1	3/16/2022 3:49:41 PM	66043
Silver	ND	5.0		mg/L	1	3/16/2022 6:05:49 PM	66043
EPA METHOD 8270SIM						Analyst:	**DAM**
Naphthalene	ND	2.0	D	µg/L	20	3/16/2022 1:24:00 PM	66057
1-Methylnaphthalene	ND	2.0	D	µg/L	20	3/16/2022 1:24:00 PM	66057
2-Methylnaphthalene	ND	2.0	D	µg/L	20	3/16/2022 1:24:00 PM	66057
Acenaphthylene	ND	2.0	D	µg/L	20	3/16/2022 1:24:00 PM	66057
Acenaphthene	ND	2.0	D	µg/L	20	3/16/2022 1:24:00 PM	66057
Fluorene	ND	2.0	D	µg/L	20	3/16/2022 1:24:00 PM	66057
Phenanthrene	ND	2.0	D	µg/L	20	3/16/2022 1:24:00 PM	66057
Anthracene	ND	2.0	D	µg/L	20	3/16/2022 1:24:00 PM	66057
Fluoranthene	ND	4.0	D	µg/L	20	3/16/2022 1:24:00 PM	66057
Pyrene	ND	4.0	D	µg/L	20	3/16/2022 1:24:00 PM	66057
Benz(a)anthracene	ND	2.0	D	µg/L	20	3/16/2022 1:24:00 PM	66057
Chrysene	ND	2.0	D	µg/L	20	3/16/2022 1:24:00 PM	66057
Benzo(b)fluoranthene	ND	2.0	D	µg/L	20	3/16/2022 1:24:00 PM	66057
Benzo(k)fluoranthene	ND	2.0	D	µg/L	20	3/16/2022 1:24:00 PM	66057
Benzo(a)pyrene	ND	1.4	D	µg/L	20	3/16/2022 1:24:00 PM	66057
Dibenz(a,h)anthracene	ND	2.0	D	µg/L	20	3/16/2022 1:24:00 PM	66057
Benzo(g,h,i)perylene	ND	2.0	D	µg/L	20	3/16/2022 1:24:00 PM	66057
Indeno(1,2,3-cd)pyrene	ND	6.0	D	µg/L	20	3/16/2022 1:24:00 PM	66057
Surr: Nitrobenzene-d5	0	31.6-100	SD	%Rec	20	3/16/2022 1:24:00 PM	66057
Surr: 2-Fluorobiphenyl	0	26.7-90.1	SD	%Rec	20	3/16/2022 1:24:00 PM	66057
Surr: 4-Terphenyl-d14	0	72.3-147	SD	%Rec	20	3/16/2022 1:24:00 PM	66057
EPA METHOD 8260B: VOLATILES						Analyst:	**CCM**
Benzene	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
Toluene	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
Ethylbenzene	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
Methyl tert-butyl ether (MTBE)	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342

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

Qualifiers:

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

Analytical Report
Lab Order **2203366**
Date Reported: **3/21/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Non-Exempt Tank
Project: Enterprise Lybrook CS
Collection Date: 3/4/2022 12:00:00 PM
Lab ID: 2203366-001 **Matrix:** AQUEOUS **Received Date:** 3/5/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
1,2,4-Trimethylbenzene	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
1,3,5-Trimethylbenzene	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
1,2-Dichloroethane (EDC)	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
1,2-Dibromoethane (EDB)	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
Naphthalene	ND	0.40		mg/L	200	3/9/2022 9:50:00 PM	R86342
1-Methylnaphthalene	ND	0.80		mg/L	200	3/9/2022 9:50:00 PM	R86342
2-Methylnaphthalene	ND	0.80		mg/L	200	3/9/2022 9:50:00 PM	R86342
Acetone	ND	2.0		mg/L	200	3/9/2022 9:50:00 PM	R86342
Bromobenzene	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
Bromodichloromethane	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
Bromoform	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
Bromomethane	ND	0.60		mg/L	200	3/9/2022 9:50:00 PM	R86342
2-Butanone	ND	2.0		mg/L	200	3/9/2022 9:50:00 PM	R86342
Carbon disulfide	ND	2.0		mg/L	200	3/9/2022 9:50:00 PM	R86342
Carbon Tetrachloride	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
Chlorobenzene	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
Chloroethane	ND	0.40		mg/L	200	3/9/2022 9:50:00 PM	R86342
Chloroform	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
Chloromethane	ND	0.60		mg/L	200	3/9/2022 9:50:00 PM	R86342
2-Chlorotoluene	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
4-Chlorotoluene	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
cis-1,2-DCE	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
cis-1,3-Dichloropropene	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
1,2-Dibromo-3-chloropropane	ND	0.40		mg/L	200	3/9/2022 9:50:00 PM	R86342
Dibromochloromethane	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
Dibromomethane	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
1,2-Dichlorobenzene	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
1,3-Dichlorobenzene	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
1,4-Dichlorobenzene	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
Dichlorodifluoromethane	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
1,1-Dichloroethane	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
1,1-Dichloroethene	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
1,2-Dichloropropane	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
1,3-Dichloropropane	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
2,2-Dichloropropane	ND	0.40		mg/L	200	3/9/2022 9:50:00 PM	R86342
1,1-Dichloropropene	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
Hexachlorobutadiene	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
2-Hexanone	ND	2.0		mg/L	200	3/9/2022 9:50:00 PM	R86342
Isopropylbenzene	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342

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

Qualifiers:

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

Analytical Report
Lab Order **2203366**
Date Reported: **3/21/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Non-Exempt Tank
Project: Enterprise Lybrook CS
Collection Date: 3/4/2022 12:00:00 PM
Lab ID: 2203366-001 **Matrix:** AQUEOUS **Received Date:** 3/5/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
4-Isopropyltoluene	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
4-Methyl-2-pentanone	ND	2.0		mg/L	200	3/9/2022 9:50:00 PM	R86342
Methylene Chloride	ND	0.60		mg/L	200	3/9/2022 9:50:00 PM	R86342
n-Butylbenzene	ND	0.60		mg/L	200	3/9/2022 9:50:00 PM	R86342
n-Propylbenzene	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
sec-Butylbenzene	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
Styrene	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
tert-Butylbenzene	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
1,1,1,2-Tetrachloroethane	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
1,1,2,2-Tetrachloroethane	ND	0.40		mg/L	200	3/9/2022 9:50:00 PM	R86342
Tetrachloroethene (PCE)	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
trans-1,2-DCE	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
trans-1,3-Dichloropropene	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
1,2,3-Trichlorobenzene	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
1,2,4-Trichlorobenzene	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
1,1,1-Trichloroethane	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
1,1,2-Trichloroethane	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
Trichloroethene (TCE)	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
Trichlorofluoromethane	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
1,2,3-Trichloropropane	ND	0.40		mg/L	200	3/9/2022 9:50:00 PM	R86342
Vinyl chloride	ND	0.20		mg/L	200	3/9/2022 9:50:00 PM	R86342
Xylenes, Total	ND	0.30		mg/L	200	3/9/2022 9:50:00 PM	R86342
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	200	3/9/2022 9:50:00 PM	R86342
Surr: 4-Bromofluorobenzene	93.4	70-130		%Rec	200	3/9/2022 9:50:00 PM	R86342
Surr: Dibromofluoromethane	101	70-130		%Rec	200	3/9/2022 9:50:00 PM	R86342
Surr: Toluene-d8	92.5	70-130		%Rec	200	3/9/2022 9:50:00 PM	R86342

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

Qualifiers:

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

Pace Analytical®

ANALYTICAL REPORT

March 11, 2022

Hall Environmental Analysis Laboratory

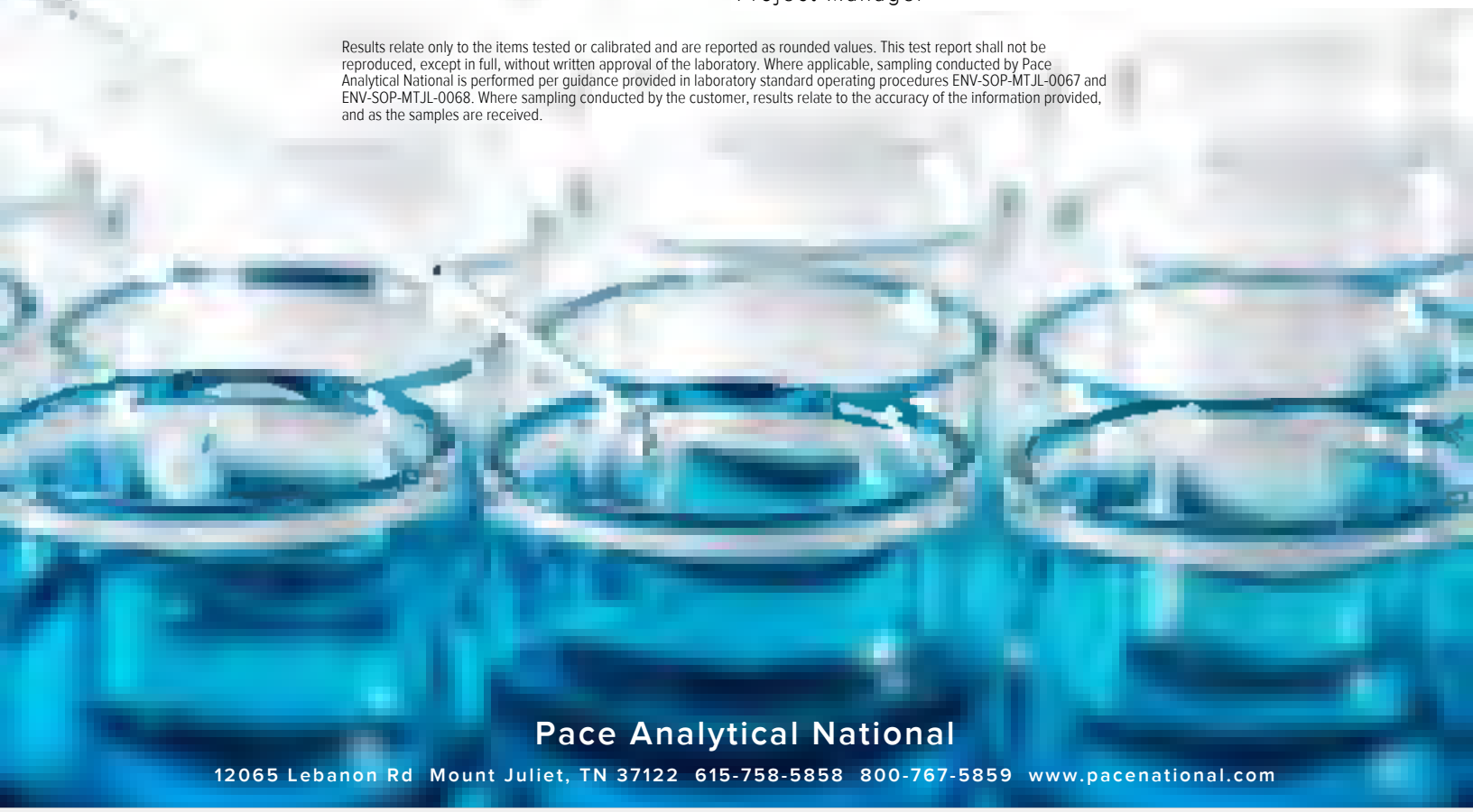
Sample Delivery Group:	L1468786
Samples Received:	03/08/2022
Project Number:	
Description:	

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

Entire Report Reviewed By:

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

TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

2203366-001D NON-EXEMPT TANK L1468786-01 5

Qc: Quality Control Summary 6

Wet Chemistry by Method 4500 CN E-2016 6

Wet Chemistry by Method 4500 S2 D-2011 7

Wet Chemistry by Method 9040C 8

Wet Chemistry by Method D93/1010A 9

Gl: Glossary of Terms 10

Al: Accreditations & Locations 11

Sc: Sample Chain of Custody 12

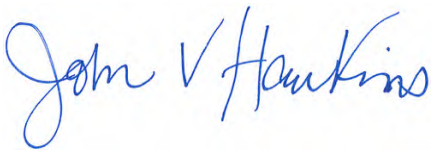
SAMPLE SUMMARY

2203366-001D NON-EXEMPT TANK L1468786-01 GW

Collected by	Collected date/time	Received date/time
	03/04/22 12:00	03/08/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 4500 CN E-2016	WG1829013	1	03/09/22 00:36	03/09/22 16:18	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500 S2 D-2011	WG1829209	1	03/08/22 17:25	03/08/22 17:25	TWF	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG1829070	1	03/09/22 11:00	03/09/22 11:00	GI	Mt. Juliet, TN
Wet Chemistry by Method D93/1010A	WG1830623	1	03/10/22 21:00	03/10/22 21:00	JAR	Mt. Juliet, TN

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



John Hawkins
Project Manager

Project Narrative

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

Sample Delivery Group (SDG) Narrative

Analysis was performed from an improper container for the following samples.

Lab Sample ID	Project Sample ID	Method
L1468786-01	2203366-001D NON-EXEMPT TANK	4500 CN E-2016

Wet Chemistry by Method 4500 CN E-2016

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Cyanide	ND		0.00500	1	03/09/2022 16:18	WG1829013

Wet Chemistry by Method 4500 S2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Sulfide	ND		0.0500	1	03/08/2022 17:25	WG1829209

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
Corrosivity by pH	6.64	T8	1	03/09/2022 11:00	WG1829070

Sample Narrative:

L1468786-01 WG1829070: 6.64 at 19.3C

Wet Chemistry by Method D93/1010A

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	deg F			date / time	
Flashpoint	DNF at 170		1	03/10/2022 21:00	WG1830623

Method Blank (MB)

(MB) R3768074-1 03/09/22 15:56

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

L1468639-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1468639-01 03/09/22 16:06 • (DUP) R3768074-3 03/09/22 16:09

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Reactive Cyanide	0.0640	0.0799	1	22.1	J3	20

L1468698-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1468698-01 03/09/22 16:15 • (DUP) R3768074-6 03/09/22 16:16

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

Laboratory Control Sample (LCS)

(LCS) R3768074-2 03/09/22 15:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Cyanide	0.100	0.0892	89.2	87.1-120	

L1468639-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1468639-02 03/09/22 16:10 • (MS) R3768074-4 03/09/22 16:11 • (MSD) R3768074-5 03/09/22 16:12

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	0.0250	0.0902	0.0651	65.2	40.1	1	90.0-110	J6	J3 J6	32.3	20

L1468829-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1468829-01 03/09/22 16:23 • (MS) R3768074-7 03/09/22 16:24 • (MSD) R3768074-8 03/09/22 16:25

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	ND	0.0810	0.101	81.0	101	1	90.0-110	J6	J3	22.0	20

Method Blank (MB)

(MB) R3767616-1 03/08/22 17:15

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

Laboratory Control Sample (LCS)

(LCS) R3767616-2 03/08/22 17:15

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Sulfide	0.500	0.515	103	85.0-115	

L1468362-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1468362-01 03/08/22 17:16 • (MS) R3767616-3 03/08/22 17:22 • (MSD) R3767616-4 03/08/22 17:22

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Sulfide	0.500	ND	0.455	0.435	91.0	87.0	1	80.0-120			4.49	20

Received by OCD: 10/2/2023 3:49:18 PM

Laboratory Control Sample (LCS)

(LCS) R3767838-1 03/09/22 11:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
Corrosivity by pH	10.0	9.97	99.7	99.0-101	

Sample Narrative:

LCS: 9.97 at 18.7C

Released to Imaging: 10/2/2023 4:00:31 PM

L1469855-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1469855-01 03/10/22 21:00 • (DUP) R3768612-3 03/10/22 21:00

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

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

(LCS) R3768612-1 03/10/22 21:00 • (LCSD) R3768612-2 03/10/22 21:00

Analyte	Spike Amount deg F	LCS Result deg F	LCSD Result deg F	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Flashpoint	126	128	124	101	98.2	96.0-104			3.18	10

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

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

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

E187

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

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

U14688786

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2203366-001D	Non-Exempt Tank	500HDPE	Aqueous	3/4/2022 12:00:00 PM	3 RCI	-01

Sample Receipt Checklist

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

SPECIAL INSTRUCTIONS / COMMENTS: Fed ex 5528 5947 9385

HMA61.6+.0=1.6

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	CMC	Date	3/5/2022	Time	12:00 PM	Received By	Jeromy Sistrunk
Relinquished By		Date		Time		Received By	Date 3/8/22 Time 0930
Relinquished By		Date		Time		Received By	Date Time

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

REPORT TRANSMITTAL DESIRED

HARDCOPY (extra cost) FAX EMAIL ONLINE

FOR LAB USE ONLY

Temp of samples °C Attempt to Cool ?

Comments

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203366**
21-Mar-22

Client: Souder, Miller and Associates
Project: Enterprise Lybrook CS

Sample ID: **MB-66043**	SampType: **MBLK**	TestCode: **EPA Method 6020A: Total Metals**
Client ID: **PBW**	Batch ID: **66043**	RunNo: **86411**
Prep Date: **3/8/2022**	Analysis Date: **3/11/2022**	SeqNo: **3048333** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Lead	ND	0.0010								
Selenium	ND	0.0010								

Sample ID: **MSLLLCS-66043**	SampType: **LCSLL**	TestCode: **EPA Method 6020A: Total Metals**
Client ID: **BatchQC**	Batch ID: **66043**	RunNo: **86411**
Prep Date: **3/8/2022**	Analysis Date: **3/11/2022**	SeqNo: **3048334** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010	0.001000	0	88.7	70	130			
Lead	0.0010	0.0010	0.001000	0	105	70	130			
Selenium	ND	0.0010	0.001000	0	93.3	70	130			

Sample ID: **MSLCS-66043**	SampType: **LCS**	TestCode: **EPA Method 6020A: Total Metals**
Client ID: **LCSW**	Batch ID: **66043**	RunNo: **86411**
Prep Date: **3/8/2022**	Analysis Date: **3/11/2022**	SeqNo: **3048653** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.048	0.0010	0.05000	0	96.4	80	120			
Lead	0.052	0.0010	0.05000	0	104	80	120			
Selenium	0.048	0.0010	0.05000	0	95.9	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203366**
21-Mar-22

Client: Souder, Miller and Associates
Project: Enterprise Lybrook CS

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R86342**	RunNo: **86342**
Prep Date:	Analysis Date: **3/9/2022**	SeqNo: **3045095** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	23	1.0	20.00	0	117	70	130			
Toluene	21	1.0	20.00	0	103	70	130			
Chlorobenzene	21	1.0	20.00	0	106	70	130			
1,1-Dichloroethene	22	1.0	20.00	0	112	70	130			
Trichloroethene (TCE)	23	1.0	20.00	0	114	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		107	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		97.4	70	130			
Surr: Dibromofluoromethane	11		10.00		107	70	130			
Surr: Toluene-d8	9.3		10.00		92.5	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R86342**	RunNo: **86342**
Prep Date:	Analysis Date: **3/9/2022**	SeqNo: **3047491** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203366**
21-Mar-22

Client: Souder, Miller and Associates
Project: Enterprise Lybrook CS

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R86342**	RunNo: **86342**
Prep Date:	Analysis Date: **3/9/2022**	SeqNo: **3047491** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203366**
21-Mar-22

Client: Souder, Miller and Associates
Project: Enterprise Lybrook CS

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R86342**	RunNo: **86342**
Prep Date:	Analysis Date: **3/9/2022**	SeqNo: **3047491** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		97.4	70	130			
Surr: Dibromofluoromethane	11		10.00		108	70	130			
Surr: Toluene-d8	9.5		10.00		94.6	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203366**
21-Mar-22

Client: Souder, Miller and Associates
Project: Enterprise Lybrook CS

Sample ID: **mb-66057** SampType: **MBLK** TestCode: **EPA Method 8270SIM**
Client ID: **PBW** Batch ID: **66057** RunNo: **86533**
Prep Date: **3/9/2022** Analysis Date: **3/16/2022** SeqNo: **3053769** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.10								
1-Methylnaphthalene	ND	0.10								
2-Methylnaphthalene	ND	0.10								
Acenaphthylene	ND	0.10								
Acenaphthene	ND	0.10								
Fluorene	ND	0.10								
Phenanthrene	ND	0.10								
Anthracene	ND	0.10								
Fluoranthene	ND	0.20								
Pyrene	ND	0.20								
Benz(a)anthracene	ND	0.10								
Chrysene	ND	0.10								
Benzo(b)fluoranthene	ND	0.10								
Benzo(k)fluoranthene	ND	0.10								
Benzo(a)pyrene	ND	0.070								
Dibenz(a,h)anthracene	ND	0.10								
Benzo(g,h,i)perylene	ND	0.10								
Indeno(1,2,3-cd)pyrene	ND	0.30								
Surr: Nitrobenzene-d5	1.6		4.000		39.5	31.6	100			
Surr: 2,4,6-Tribromophenol	3.0		8.000		37.2	22	101			
Surr: 2-Fluorobiphenyl	1.2		4.000		29.5	26.7	90.1			
Surr: 4-Terphenyl-d14	4.1		4.000		103	72.3	147			

Sample ID: **lcs-66057** SampType: **LCS** TestCode: **EPA Method 8270SIM**
Client ID: **LCSW** Batch ID: **66057** RunNo: **86533**
Prep Date: **3/9/2022** Analysis Date: **3/16/2022** SeqNo: **3053770** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.84	0.10	2.000	0	42.0	21.3	79.9			
1-Methylnaphthalene	0.86	0.10	2.000	0	43.0	22.2	80.3			
2-Methylnaphthalene	0.82	0.10	2.000	0	41.0	20.6	80.1			
Acenaphthylene	1.2	0.10	2.000	0	60.0	36.9	87.2			
Acenaphthene	1.2	0.10	2.000	0	59.0	29.8	82.7			
Fluorene	1.3	0.10	2.000	0	65.0	33.3	86			
Phenanthrene	1.5	0.10	2.000	0	75.0	38.2	93.9			
Anthracene	1.5	0.10	2.000	0	73.0	41.1	95.6			
Fluoranthene	1.7	0.20	2.000	0	83.0	52.9	123			
Pyrene	1.6	0.20	2.000	0	82.0	51	113			
Benz(a)anthracene	1.8	0.10	2.000	0	91.0	51	147			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203366**
21-Mar-22

Client: Souder, Miller and Associates
Project: Enterprise Lybrook CS

Sample ID: **lcs-66057** SampType: **LCS** TestCode: **EPA Method 8270SIM**
Client ID: **LCSW** Batch ID: **66057** RunNo: **86533**
Prep Date: **3/9/2022** Analysis Date: **3/16/2022** SeqNo: **3053770** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chrysene	1.7	0.10	2.000	0	86.0	55.3	115			
Benzo(b)fluoranthene	1.7	0.10	2.000	0	86.0	44.4	136			
Benzo(k)fluoranthene	1.8	0.10	2.000	0	90.0	56.9	121			
Benzo(a)pyrene	1.6	0.070	2.000	0	82.0	48.7	134			
Dibenz(a,h)anthracene	1.7	0.10	2.000	0	85.0	39.9	137			
Benzo(g,h,i)perylene	1.8	0.10	2.000	0	89.0	44.2	128			
Indeno(1,2,3-cd)pyrene	1.9	0.30	2.000	0	94.0	31.4	165			
Surr: Nitrobenzene-d5	3.7		5.000		73.6	31.6	100			
Surr: 2,4,6-Tribromophenol	5.7		10.00		56.8	22	101			
Surr: 2-Fluorobiphenyl	3.5		5.000		70.8	26.7	90.1			
Surr: 4-Terphenyl-d14	6.1		5.000		122	72.3	147			

Sample ID: **lcsd-66057** SampType: **LCSD** TestCode: **EPA Method 8270SIM**
Client ID: **LCSS02** Batch ID: **66057** RunNo: **86533**
Prep Date: **3/9/2022** Analysis Date: **3/16/2022** SeqNo: **3053771** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.56	0.10	2.000	0	28.0	21.3	79.9	40.0	25.6	R
1-Methylnaphthalene	0.58	0.10	2.000	0	29.0	22.2	80.3	38.9	25	R
2-Methylnaphthalene	0.56	0.10	2.000	0	28.0	20.6	80.1	37.7	25	R
Acenaphthylene	0.90	0.10	2.000	0	45.0	36.9	87.2	28.6	23.8	R
Acenaphthene	0.86	0.10	2.000	0	43.0	29.8	82.7	31.4	27.8	R
Fluorene	1.0	0.10	2.000	0	50.0	33.3	86	26.1	26.4	
Phenanthrene	1.2	0.10	2.000	0	60.0	38.2	93.9	22.2	27.9	
Anthracene	1.1	0.10	2.000	0	57.0	41.1	95.6	24.6	25.6	
Fluoranthene	1.5	0.20	2.000	0	73.0	52.9	123	12.8	22.8	
Pyrene	1.5	0.20	2.000	0	75.0	51	113	8.92	20	
Benz(a)anthracene	1.7	0.10	2.000	0	87.0	51	147	4.49	24.1	
Chrysene	1.8	0.10	2.000	0	92.0	55.3	115	6.74	20	
Benzo(b)fluoranthene	1.8	0.10	2.000	0	89.0	44.4	136	3.43	24.5	
Benzo(k)fluoranthene	1.9	0.10	2.000	0	93.0	56.9	121	3.28	21.1	
Benzo(a)pyrene	1.7	0.070	2.000	0	83.0	48.7	134	1.21	24.8	
Dibenz(a,h)anthracene	1.8	0.10	2.000	0	88.0	39.9	137	3.47	24.9	
Benzo(g,h,i)perylene	1.8	0.10	2.000	0	92.0	44.2	128	3.31	23.1	
Indeno(1,2,3-cd)pyrene	1.9	0.30	2.000	0	95.0	31.4	165	1.06	21.1	
Surr: Nitrobenzene-d5	2.9		5.000		58.0	31.6	100	0	0	
Surr: 2,4,6-Tribromophenol	4.5		10.00		45.0	22	101	0	0	
Surr: 2-Fluorobiphenyl	2.6		5.000		51.2	26.7	90.1	0	0	
Surr: 4-Terphenyl-d14	6.3		5.000		126	72.3	147	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203366**

21-Mar-22

Client: Souder, Miller and Associates

Project: Enterprise Lybrook CS

Sample ID: **MB-66107**	SampType: **MBLK**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **PBW**	Batch ID: **66107**	RunNo: **86426**
Prep Date: **3/10/2022**	Analysis Date: **3/11/2022**	SeqNo: **3048971** Units: **mg/L**

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

Sample ID: **LLLCS-66107**	SampType: **LCSLL**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **BatchQC**	Batch ID: **66107**	RunNo: **86426**
Prep Date: **3/10/2022**	Analysis Date: **3/11/2022**	SeqNo: **3048972** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020	0.0001500	0	98.7	50	150			

Sample ID: **LCS-66107**	SampType: **LCS**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **LCSW**	Batch ID: **66107**	RunNo: **86426**
Prep Date: **3/10/2022**	Analysis Date: **3/11/2022**	SeqNo: **3048973** 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	97.7	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203366**

21-Mar-22

Client: Souder, Miller and Associates

Project: Enterprise Lybrook CS

Sample ID: **MB-66043**	SampType: **MBLK**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW**	Batch ID: **66043**	RunNo: **86414**
Prep Date: **3/8/2022**	Analysis Date: **3/10/2022**	SeqNo: **3048535** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								

Sample ID: **LCS-66043**	SampType: **LCS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW**	Batch ID: **66043**	RunNo: **86414**
Prep Date: **3/8/2022**	Analysis Date: **3/10/2022**	SeqNo: **3048537** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.51	0.0020	0.5000	0	103	80	120			
Cadmium	0.52	0.0020	0.5000	0	103	80	120			
Chromium	0.51	0.0060	0.5000	0	102	80	120			

Sample ID: **MB-66043**	SampType: **MBLK**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW**	Batch ID: **66043**	RunNo: **86414**
Prep Date: **3/8/2022**	Analysis Date: **3/10/2022**	SeqNo: **3048761** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	ND	0.0050								

Sample ID: **LCS-66043**	SampType: **LCS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW**	Batch ID: **66043**	RunNo: **86414**
Prep Date: **3/8/2022**	Analysis Date: **3/10/2022**	SeqNo: **3048763** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.097	0.0050	0.1000	0	96.8	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Souder, Miller and Associates | Work Order Number: 2203366 | RcptNo: 1

Received By: Cheyenne Cason 3/5/2022 8:55:00 AM

Completed By: Cheyenne Cason 3/5/2022 11:57:32 AM

Reviewed By: TMC 3/7/22

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☑ No ☐ NA ☐
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
    # of preserved bottles checked for pH: 2 (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐ Adjusted? NO
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐ Checked by: JR 3/7/22

Special Handling (if applicable)

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

Person Notified: Date:

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

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.5	Good	Yes			
2	1.4	Good	Yes			
3	2.1	Good	Yes			

Released to Imaging: 10/2/2023 4:00:31 PM
Received by OCD: 10/2/2023 3:49:18 PM

Chain-of-Custody Record

Client: Souder, Miller & Associates

Mailing Address: 401 West Broadway
Farmington, NM 87401

Phone #: (505) 325-7535

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

QA/QC Package: tjlong@eprod.com

☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Enterprise Lybrook CS

Project #:

Project Manager: Ashley Maxwell

Sampler: Heather Woods

On Ice: ☒ Yes ☐ No

# of Coolers: 3

Cooler Temp(Including CF): See Remarks (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2203366
3/4/22	1200	Ag	Non-Exempt Tank	(1) 1L Amber	Non	001
				(3) 40mL VOA	$HgCl_2$	
				(1) 125mL Plastic	HNO_3	
				(1) 125mL Plastic	2mL of each NaOH	
				(1) 125mL Plastic	NaOH	
				(1) 125mL Plastic	Non	

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	RCI
				X	X		X			X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
3/4/22	1751	Heather M. Woods	Mint Ward		3/4/22	1751
3/4/22	1930	Mint Wards	CMC Courier		3/5/22	0855

Remarks:
TCLP compounds at TCLP Limits
Invoice Enterprise cc Tom Long
2.5-0=2.5 1.4-0=1.4 2.1-0=2.1

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

March 21, 2022

Ashley Maxwell

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

RE: Enterprise San Luis OrderNo.: 2203367

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/5/2022 for the analyses presented in the following report.

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

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

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

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2203367**
Date Reported: **3/21/2022**

CLIENT: Souder, Miller and Associates
Client Sample ID: Non-Exempt Tank
Project: Enterprise San Luis
Collection Date: 3/4/2022 2:45:00 PM
Lab ID: 2203367-001 **Matrix:** AQUEOUS **Received Date:** 3/5/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 6020A: TOTAL METALS						Analyst:	**DBK**
Arsenic	ND	5.0		mg/L	1	3/11/2022 2:45:05 PM	66043
Lead	ND	5.0		mg/L	1	3/11/2022 2:45:05 PM	66043
Selenium	ND	1.0		mg/L	1	3/11/2022 2:45:05 PM	66043
EPA METHOD 7470A: MERCURY						Analyst:	**VP**
Mercury	ND	0.020		mg/L	1	3/11/2022 6:06:53 PM	66107
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst:	**JLF**
Barium	ND	100		mg/L	1	3/16/2022 3:52:38 PM	66043
Cadmium	ND	1.0		mg/L	1	3/16/2022 3:52:38 PM	66043
Chromium	ND	5.0		mg/L	1	3/16/2022 3:52:38 PM	66043
Silver	ND	5.0		mg/L	1	3/16/2022 6:07:31 PM	66043
EPA METHOD 8270SIM						Analyst:	**DAM**
Naphthalene	ND	2.0	D	µg/L	20	3/16/2022 2:12:00 PM	66057
1-Methylnaphthalene	ND	2.0	D	µg/L	20	3/16/2022 2:12:00 PM	66057
2-Methylnaphthalene	ND	2.0	D	µg/L	20	3/16/2022 2:12:00 PM	66057
Acenaphthylene	ND	2.0	D	µg/L	20	3/16/2022 2:12:00 PM	66057
Acenaphthene	ND	2.0	D	µg/L	20	3/16/2022 2:12:00 PM	66057
Fluorene	ND	2.0	D	µg/L	20	3/16/2022 2:12:00 PM	66057
Phenanthrene	ND	2.0	D	µg/L	20	3/16/2022 2:12:00 PM	66057
Anthracene	ND	2.0	D	µg/L	20	3/16/2022 2:12:00 PM	66057
Fluoranthene	ND	4.0	D	µg/L	20	3/16/2022 2:12:00 PM	66057
Pyrene	ND	4.0	D	µg/L	20	3/16/2022 2:12:00 PM	66057
Benz(a)anthracene	ND	2.0	D	µg/L	20	3/16/2022 2:12:00 PM	66057
Chrysene	ND	2.0	D	µg/L	20	3/16/2022 2:12:00 PM	66057
Benzo(b)fluoranthene	ND	2.0	D	µg/L	20	3/16/2022 2:12:00 PM	66057
Benzo(k)fluoranthene	ND	2.0	D	µg/L	20	3/16/2022 2:12:00 PM	66057
Benzo(a)pyrene	ND	1.4	D	µg/L	20	3/16/2022 2:12:00 PM	66057
Dibenz(a,h)anthracene	ND	2.0	D	µg/L	20	3/16/2022 2:12:00 PM	66057
Benzo(g,h,i)perylene	ND	2.0	D	µg/L	20	3/16/2022 2:12:00 PM	66057
Indeno(1,2,3-cd)pyrene	ND	6.0	D	µg/L	20	3/16/2022 2:12:00 PM	66057
Surr: Nitrobenzene-d5	0	31.6-100	SD	%Rec	20	3/16/2022 2:12:00 PM	66057
Surr: 2-Fluorobiphenyl	0	26.7-90.1	SD	%Rec	20	3/16/2022 2:12:00 PM	66057
Surr: 4-Terphenyl-d14	0	72.3-147	SD	%Rec	20	3/16/2022 2:12:00 PM	66057
EPA METHOD 8260B: VOLATILES						Analyst:	**CCM**
Benzene	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
Toluene	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
Ethylbenzene	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
Methyl tert-butyl ether (MTBE)	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403

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

Qualifiers:

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

Analytical Report
Lab Order **2203367**
Date Reported: **3/21/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Non-Exempt Tank
Project: Enterprise San Luis
Collection Date: 3/4/2022 2:45:00 PM
Lab ID: 2203367-001 **Matrix:** AQUEOUS **Received Date:** 3/5/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
1,2,4-Trimethylbenzene	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
1,3,5-Trimethylbenzene	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
1,2-Dichloroethane (EDC)	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
1,2-Dibromoethane (EDB)	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
Naphthalene	ND	0.40		mg/L	200	3/11/2022 8:23:00 PM	R86403
1-Methylnaphthalene	ND	0.80		mg/L	200	3/11/2022 8:23:00 PM	R86403
2-Methylnaphthalene	ND	0.80		mg/L	200	3/11/2022 8:23:00 PM	R86403
Acetone	ND	2.0		mg/L	200	3/11/2022 8:23:00 PM	R86403
Bromobenzene	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
Bromodichloromethane	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
Bromoform	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
Bromomethane	ND	0.60		mg/L	200	3/11/2022 8:23:00 PM	R86403
2-Butanone	ND	2.0		mg/L	200	3/11/2022 8:23:00 PM	R86403
Carbon disulfide	ND	2.0		mg/L	200	3/11/2022 8:23:00 PM	R86403
Carbon Tetrachloride	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
Chlorobenzene	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
Chloroethane	ND	0.40		mg/L	200	3/11/2022 8:23:00 PM	R86403
Chloroform	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
Chloromethane	ND	0.60		mg/L	200	3/11/2022 8:23:00 PM	R86403
2-Chlorotoluene	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
4-Chlorotoluene	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
cis-1,2-DCE	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
cis-1,3-Dichloropropene	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
1,2-Dibromo-3-chloropropane	ND	0.40		mg/L	200	3/11/2022 8:23:00 PM	R86403
Dibromochloromethane	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
Dibromomethane	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
1,2-Dichlorobenzene	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
1,3-Dichlorobenzene	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
1,4-Dichlorobenzene	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
Dichlorodifluoromethane	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
1,1-Dichloroethane	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
1,1-Dichloroethene	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
1,2-Dichloropropane	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
1,3-Dichloropropane	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
2,2-Dichloropropane	ND	0.40		mg/L	200	3/11/2022 8:23:00 PM	R86403
1,1-Dichloropropene	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
Hexachlorobutadiene	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
2-Hexanone	ND	2.0		mg/L	200	3/11/2022 8:23:00 PM	R86403
Isopropylbenzene	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403

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

Qualifiers:

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

Analytical Report
Lab Order **2203367**
Date Reported: **3/21/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Non-Exempt Tank
Project: Enterprise San Luis
Collection Date: 3/4/2022 2:45:00 PM
Lab ID: 2203367-001 **Matrix:** AQUEOUS **Received Date:** 3/5/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
4-Isopropyltoluene	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
4-Methyl-2-pentanone	ND	2.0		mg/L	200	3/11/2022 8:23:00 PM	R86403
Methylene Chloride	ND	0.60		mg/L	200	3/11/2022 8:23:00 PM	R86403
n-Butylbenzene	ND	0.60		mg/L	200	3/11/2022 8:23:00 PM	R86403
n-Propylbenzene	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
sec-Butylbenzene	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
Styrene	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
tert-Butylbenzene	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
1,1,1,2-Tetrachloroethane	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
1,1,2,2-Tetrachloroethane	ND	0.40		mg/L	200	3/11/2022 8:23:00 PM	R86403
Tetrachloroethene (PCE)	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
trans-1,2-DCE	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
trans-1,3-Dichloropropene	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
1,2,3-Trichlorobenzene	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
1,2,4-Trichlorobenzene	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
1,1,1-Trichloroethane	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
1,1,2-Trichloroethane	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
Trichloroethene (TCE)	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
Trichlorofluoromethane	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
1,2,3-Trichloropropane	ND	0.40		mg/L	200	3/11/2022 8:23:00 PM	R86403
Vinyl chloride	ND	0.20		mg/L	200	3/11/2022 8:23:00 PM	R86403
Xylenes, Total	ND	0.30		mg/L	200	3/11/2022 8:23:00 PM	R86403
Surr: 1,2-Dichloroethane-d4	99.8	70-130		%Rec	200	3/11/2022 8:23:00 PM	R86403
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	200	3/11/2022 8:23:00 PM	R86403
Surr: Dibromofluoromethane	101	70-130		%Rec	200	3/11/2022 8:23:00 PM	R86403
Surr: Toluene-d8	91.5	70-130		%Rec	200	3/11/2022 8:23:00 PM	R86403

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

Qualifiers:

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

Pace Analytical®

ANALYTICAL REPORT

March 11, 2022

Hall Environmental Analysis Laboratory

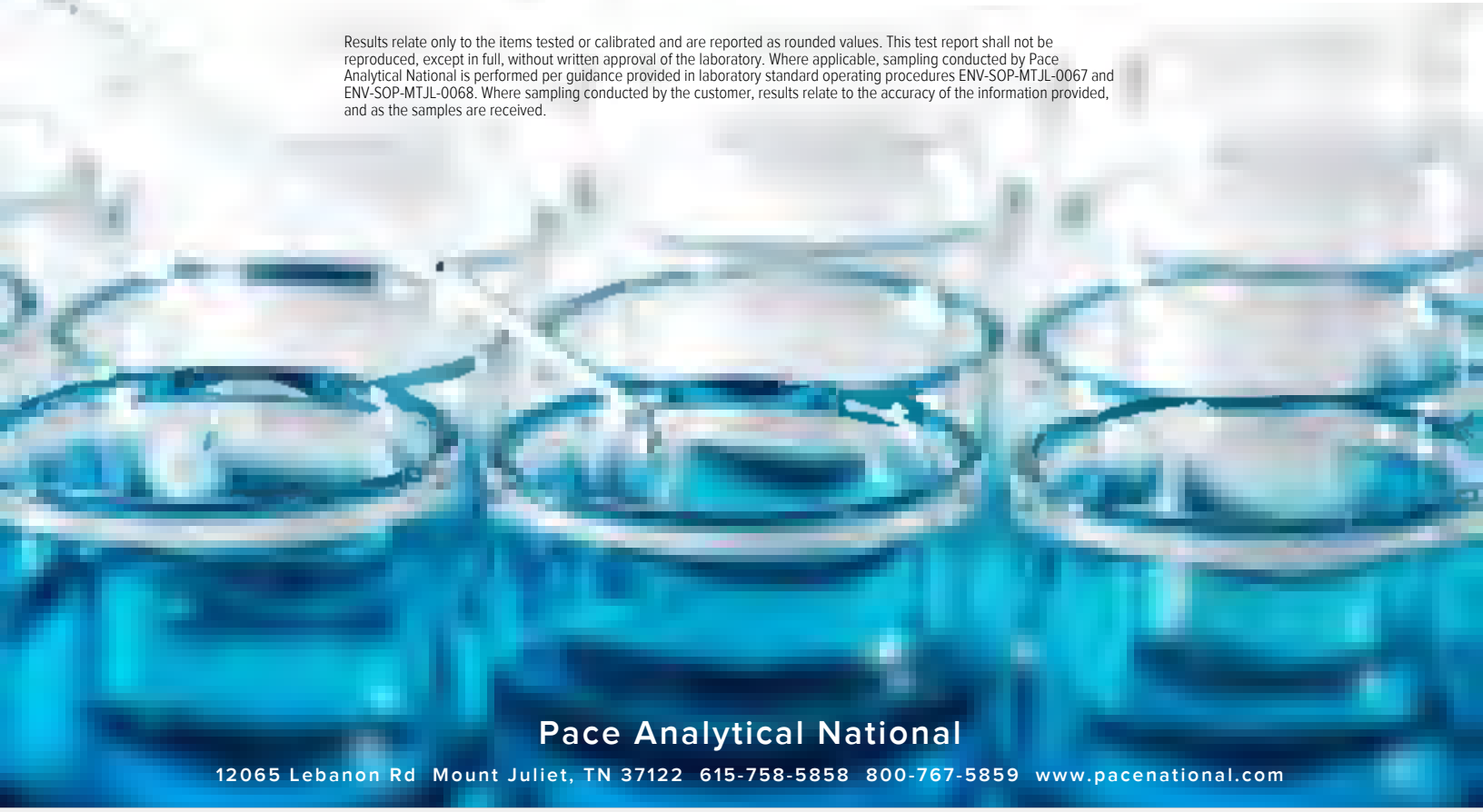
Sample Delivery Group:	L1468791
Samples Received:	03/08/2022
Project Number:	
Description:	

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

Entire Report Reviewed By: John V Hawkins

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

TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

2203367-001D NON-EXEMPT TANK L1468791-01 5

Qc: Quality Control Summary 6

Wet Chemistry by Method 4500 CN E-2016 6

Wet Chemistry by Method 4500 S2 D-2011 7

Wet Chemistry by Method 9040C 8

Wet Chemistry by Method D93/1010A 9

Gl: Glossary of Terms 10

Al: Accreditations & Locations 11

Sc: Sample Chain of Custody 12

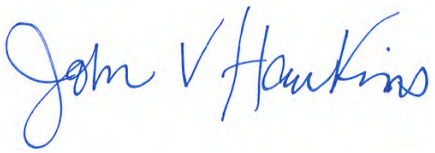
SAMPLE SUMMARY

2203367-001D NON-EXEMPT TANK L1468791-01 GW

Collected by	Collected date/time	Received date/time
	03/04/22 14:45	03/08/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 4500 CN E-2016	WG1829013	1	03/09/22 00:36	03/09/22 16:22	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500 S2 D-2011	WG1829209	1	03/08/22 17:27	03/08/22 17:27	TWF	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG1829070	1	03/09/22 11:00	03/09/22 11:00	GI	Mt. Juliet, TN
Wet Chemistry by Method D93/1010A	WG1830623	1	03/10/22 21:00	03/10/22 21:00	JAR	Mt. Juliet, TN

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



John Hawkins
Project Manager

Project Narrative

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

Sample Delivery Group (SDG) Narrative

Analysis was performed from an improper container for the following samples.

Lab Sample ID	Project Sample ID	Method
L1468791-01	2203367-001D NON-EXEMPT TANK	4500 CN E-2016

Wet Chemistry by Method 4500 CN E-2016

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Cyanide	ND		0.00500	1	03/09/2022 16:22	WG1829013

Wet Chemistry by Method 4500 S2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Sulfide	0.0660		0.0500	1	03/08/2022 17:27	WG1829209

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
Corrosivity by pH	6.42	T8	1	03/09/2022 11:00	WG1829070

Sample Narrative:

L1468791-01 WG1829070: 6.42 at 19C

Wet Chemistry by Method D93/1010A

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	deg F			date / time	
Flashpoint	DNF at 170		1	03/10/2022 21:00	WG1830623

Method Blank (MB)

(MB) R3768074-1 03/09/22 15:56

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

L1468639-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1468639-01 03/09/22 16:06 • (DUP) R3768074-3 03/09/22 16:09

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Reactive Cyanide	0.0640	0.0799	1	22.1	J3	20

L1468698-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1468698-01 03/09/22 16:15 • (DUP) R3768074-6 03/09/22 16:16

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

Laboratory Control Sample (LCS)

(LCS) R3768074-2 03/09/22 15:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Cyanide	0.100	0.0892	89.2	87.1-120	

L1468639-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1468639-02 03/09/22 16:10 • (MS) R3768074-4 03/09/22 16:11 • (MSD) R3768074-5 03/09/22 16:12

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	0.0250	0.0902	0.0651	65.2	40.1	1	90.0-110	J6	J3 J6	32.3	20

L1468829-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1468829-01 03/09/22 16:23 • (MS) R3768074-7 03/09/22 16:24 • (MSD) R3768074-8 03/09/22 16:25

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	ND	0.0810	0.101	81.0	101	1	90.0-110	J6	J3	22.0	20

Method Blank (MB)

(MB) R3767616-1 03/08/22 17:15

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

Laboratory Control Sample (LCS)

(LCS) R3767616-2 03/08/22 17:15

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Sulfide	0.500	0.515	103	85.0-115	

L1468362-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1468362-01 03/08/22 17:16 • (MS) R3767616-3 03/08/22 17:22 • (MSD) R3767616-4 03/08/22 17:22

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Sulfide	0.500	ND	0.455	0.435	91.0	87.0	1	80.0-120			4.49	20

Received by OCD: 10/2/2023 3:49:18 PM

Laboratory Control Sample (LCS)

(LCS) R3767838-1 03/09/22 11:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
Corrosivity by pH	10.0	9.97	99.7	99.0-101	

Sample Narrative:

LCS: 9.97 at 18.7C

Released to Imaging: 10/2/2023 4:00:31 PM

L1469855-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1469855-01 03/10/22 21:00 • (DUP) R3768612-3 03/10/22 21:00

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

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

(LCS) R3768612-1 03/10/22 21:00 • (LCSD) R3768612-2 03/10/22 21:00

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	deg F	deg F	deg F	%	%	%			%	%
Flashpoint	126	128	124	101	98.2	96.0-104			3.18	10

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

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

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

E189

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

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

FAX: (615) 758-5859

L1468791

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2203367-001D	Non-Exempt Tank	500HDPE	Aqueous	3/4/2022 2:45:00 PM	3	RCI

-c1

Sample Receipt Checklist

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

SPECIAL INSTRUCTIONS / COMMENTS: Fed ex 5528 5947 9385 HMA 1.6+.0=1.6

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	CMC	Date	3/5/2022	Time	12:03 PM	Received By	Veronica Sistrunk
Relinquished By		Date		Time		Received By	Date 3/8/22 Time 0930
Relinquished By		Date		Time		Received By	Date Time

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

REPORT TRANSMITTAL DESIRED

HARDCOPY (extra cost) FAX EMAIL ONLINE

FOR LAB USE ONLY

Temp of samples C Attempt to Cool ?

Comments

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203367**

21-Mar-22

Client: Souder, Miller and Associates

Project: Enterprise San Luis

Sample ID: **MB-66043**	SampType: **MBLK**	TestCode: **EPA Method 6020A: Total Metals**
Client ID: **PBW**	Batch ID: **66043**	RunNo: **86411**
Prep Date: **3/8/2022**	Analysis Date: **3/11/2022**	SeqNo: **3048333** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Lead	ND	0.0010								
Selenium	ND	0.0010								

Sample ID: **MSLLLCS-66043**	SampType: **LCSLL**	TestCode: **EPA Method 6020A: Total Metals**
Client ID: **BatchQC**	Batch ID: **66043**	RunNo: **86411**
Prep Date: **3/8/2022**	Analysis Date: **3/11/2022**	SeqNo: **3048334** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010	0.001000	0	88.7	70	130			
Lead	0.0010	0.0010	0.001000	0	105	70	130			
Selenium	ND	0.0010	0.001000	0	93.3	70	130			

Sample ID: **MSLCS-66043**	SampType: **LCS**	TestCode: **EPA Method 6020A: Total Metals**
Client ID: **LCSW**	Batch ID: **66043**	RunNo: **86411**
Prep Date: **3/8/2022**	Analysis Date: **3/11/2022**	SeqNo: **3048653** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.048	0.0010	0.05000	0	96.4	80	120			
Lead	0.052	0.0010	0.05000	0	104	80	120			
Selenium	0.048	0.0010	0.05000	0	95.9	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203367**
21-Mar-22

Client: Souder, Miller and Associates
Project: Enterprise San Luis

Sample ID: **100ng lcs 2** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **R86403** RunNo: **86403**
Prep Date: Analysis Date: **3/11/2022** SeqNo: **3048669** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	106	70	130			
Toluene	20	1.0	20.00	0	99.8	70	130			
Chlorobenzene	20	1.0	20.00	0	100	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	100	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	103	70	130			
Surr: 1,2-Dichloroethane-d4	9.9		10.00		99.4	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.4		10.00		94.3	70	130			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R86403** RunNo: **86403**
Prep Date: Analysis Date: **3/11/2022** SeqNo: **3048850** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203367**
21-Mar-22

Client: Souder, Miller and Associates
Project: Enterprise San Luis

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R86403**	RunNo: **86403**
Prep Date:	Analysis Date: **3/11/2022**	SeqNo: **3048850** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203367**
21-Mar-22

Client: Souder, Miller and Associates
Project: Enterprise San Luis

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R86403**	RunNo: **86403**
Prep Date:	Analysis Date: **3/11/2022**	SeqNo: **3048850** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		102	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.4	70	130			
Surr: Dibromofluoromethane	10		10.00		102	70	130			
Surr: Toluene-d8	9.3		10.00		92.7	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203367**
21-Mar-22

Client: Souder, Miller and Associates
Project: Enterprise San Luis

Sample ID: **mb-66057** SampType: **MBLK** TestCode: **EPA Method 8270SIM**
Client ID: **PBW** Batch ID: **66057** RunNo: **86533**
Prep Date: **3/9/2022** Analysis Date: **3/16/2022** SeqNo: **3053769** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.10								
1-Methylnaphthalene	ND	0.10								
2-Methylnaphthalene	ND	0.10								
Acenaphthylene	ND	0.10								
Acenaphthene	ND	0.10								
Fluorene	ND	0.10								
Phenanthrene	ND	0.10								
Anthracene	ND	0.10								
Fluoranthene	ND	0.20								
Pyrene	ND	0.20								
Benz(a)anthracene	ND	0.10								
Chrysene	ND	0.10								
Benzo(b)fluoranthene	ND	0.10								
Benzo(k)fluoranthene	ND	0.10								
Benzo(a)pyrene	ND	0.070								
Dibenz(a,h)anthracene	ND	0.10								
Benzo(g,h,i)perylene	ND	0.10								
Indeno(1,2,3-cd)pyrene	ND	0.30								
Surr: Nitrobenzene-d5	1.6		4.000		39.5	31.6	100			
Surr: 2,4,6-Tribromophenol	3.0		8.000		37.2	22	101			
Surr: 2-Fluorobiphenyl	1.2		4.000		29.5	26.7	90.1			
Surr: 4-Terphenyl-d14	4.1		4.000		103	72.3	147			

Sample ID: **lcs-66057** SampType: **LCS** TestCode: **EPA Method 8270SIM**
Client ID: **LCSW** Batch ID: **66057** RunNo: **86533**
Prep Date: **3/9/2022** Analysis Date: **3/16/2022** SeqNo: **3053770** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.84	0.10	2.000	0	42.0	21.3	79.9			
1-Methylnaphthalene	0.86	0.10	2.000	0	43.0	22.2	80.3			
2-Methylnaphthalene	0.82	0.10	2.000	0	41.0	20.6	80.1			
Acenaphthylene	1.2	0.10	2.000	0	60.0	36.9	87.2			
Acenaphthene	1.2	0.10	2.000	0	59.0	29.8	82.7			
Fluorene	1.3	0.10	2.000	0	65.0	33.3	86			
Phenanthrene	1.5	0.10	2.000	0	75.0	38.2	93.9			
Anthracene	1.5	0.10	2.000	0	73.0	41.1	95.6			
Fluoranthene	1.7	0.20	2.000	0	83.0	52.9	123			
Pyrene	1.6	0.20	2.000	0	82.0	51	113			
Benz(a)anthracene	1.8	0.10	2.000	0	91.0	51	147			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203367**
21-Mar-22

Client: Souder, Miller and Associates
Project: Enterprise San Luis

Sample ID: **lcs-66057** SampType: **LCS** TestCode: **EPA Method 8270SIM**
Client ID: **LCSW** Batch ID: **66057** RunNo: **86533**
Prep Date: **3/9/2022** Analysis Date: **3/16/2022** SeqNo: **3053770** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chrysene	1.7	0.10	2.000	0	86.0	55.3	115			
Benzo(b)fluoranthene	1.7	0.10	2.000	0	86.0	44.4	136			
Benzo(k)fluoranthene	1.8	0.10	2.000	0	90.0	56.9	121			
Benzo(a)pyrene	1.6	0.070	2.000	0	82.0	48.7	134			
Dibenz(a,h)anthracene	1.7	0.10	2.000	0	85.0	39.9	137			
Benzo(g,h,i)perylene	1.8	0.10	2.000	0	89.0	44.2	128			
Indeno(1,2,3-cd)pyrene	1.9	0.30	2.000	0	94.0	31.4	165			
Surr: Nitrobenzene-d5	3.7		5.000		73.6	31.6	100			
Surr: 2,4,6-Tribromophenol	5.7		10.00		56.8	22	101			
Surr: 2-Fluorobiphenyl	3.5		5.000		70.8	26.7	90.1			
Surr: 4-Terphenyl-d14	6.1		5.000		122	72.3	147			

Sample ID: **lcsd-66057** SampType: **LCSD** TestCode: **EPA Method 8270SIM**
Client ID: **LCSS02** Batch ID: **66057** RunNo: **86533**
Prep Date: **3/9/2022** Analysis Date: **3/16/2022** SeqNo: **3053771** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.56	0.10	2.000	0	28.0	21.3	79.9	40.0	25.6	R
1-Methylnaphthalene	0.58	0.10	2.000	0	29.0	22.2	80.3	38.9	25	R
2-Methylnaphthalene	0.56	0.10	2.000	0	28.0	20.6	80.1	37.7	25	R
Acenaphthylene	0.90	0.10	2.000	0	45.0	36.9	87.2	28.6	23.8	R
Acenaphthene	0.86	0.10	2.000	0	43.0	29.8	82.7	31.4	27.8	R
Fluorene	1.0	0.10	2.000	0	50.0	33.3	86	26.1	26.4	
Phenanthrene	1.2	0.10	2.000	0	60.0	38.2	93.9	22.2	27.9	
Anthracene	1.1	0.10	2.000	0	57.0	41.1	95.6	24.6	25.6	
Fluoranthene	1.5	0.20	2.000	0	73.0	52.9	123	12.8	22.8	
Pyrene	1.5	0.20	2.000	0	75.0	51	113	8.92	20	
Benz(a)anthracene	1.7	0.10	2.000	0	87.0	51	147	4.49	24.1	
Chrysene	1.8	0.10	2.000	0	92.0	55.3	115	6.74	20	
Benzo(b)fluoranthene	1.8	0.10	2.000	0	89.0	44.4	136	3.43	24.5	
Benzo(k)fluoranthene	1.9	0.10	2.000	0	93.0	56.9	121	3.28	21.1	
Benzo(a)pyrene	1.7	0.070	2.000	0	83.0	48.7	134	1.21	24.8	
Dibenz(a,h)anthracene	1.8	0.10	2.000	0	88.0	39.9	137	3.47	24.9	
Benzo(g,h,i)perylene	1.8	0.10	2.000	0	92.0	44.2	128	3.31	23.1	
Indeno(1,2,3-cd)pyrene	1.9	0.30	2.000	0	95.0	31.4	165	1.06	21.1	
Surr: Nitrobenzene-d5	2.9		5.000		58.0	31.6	100	0	0	
Surr: 2,4,6-Tribromophenol	4.5		10.00		45.0	22	101	0	0	
Surr: 2-Fluorobiphenyl	2.6		5.000		51.2	26.7	90.1	0	0	
Surr: 4-Terphenyl-d14	6.3		5.000		126	72.3	147	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203367**

21-Mar-22

Client: Souder, Miller and Associates

Project: Enterprise San Luis

Sample ID: **MB-66107**	SampType: **MBLK**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **PBW**	Batch ID: **66107**	RunNo: **86426**
Prep Date: **3/10/2022**	Analysis Date: **3/11/2022**	SeqNo: **3048971** Units: **mg/L**

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

Sample ID: **LLLCS-66107**	SampType: **LCSLL**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **BatchQC**	Batch ID: **66107**	RunNo: **86426**
Prep Date: **3/10/2022**	Analysis Date: **3/11/2022**	SeqNo: **3048972** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020	0.0001500	0	98.7	50	150			

Sample ID: **LCS-66107**	SampType: **LCS**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **LCSW**	Batch ID: **66107**	RunNo: **86426**
Prep Date: **3/10/2022**	Analysis Date: **3/11/2022**	SeqNo: **3048973** 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	97.7	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203367**

21-Mar-22

Client: Souder, Miller and Associates

Project: Enterprise San Luis

Sample ID: **MB-66043** SampType: **MBLK** TestCode: **EPA 6010B: Total Recoverable Metals**

Client ID: **PBW** Batch ID: **66043** RunNo: **86414**

Prep Date: **3/8/2022** Analysis Date: **3/10/2022** SeqNo: **3048535** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								

Sample ID: **LCS-66043** SampType: **LCS** TestCode: **EPA 6010B: Total Recoverable Metals**

Client ID: **LCSW** Batch ID: **66043** RunNo: **86414**

Prep Date: **3/8/2022** Analysis Date: **3/10/2022** SeqNo: **3048537** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.51	0.0020	0.5000	0	103	80	120			
Cadmium	0.52	0.0020	0.5000	0	103	80	120			
Chromium	0.51	0.0060	0.5000	0	102	80	120			

Sample ID: **MB-66043** SampType: **MBLK** TestCode: **EPA 6010B: Total Recoverable Metals**

Client ID: **PBW** Batch ID: **66043** RunNo: **86414**

Prep Date: **3/8/2022** Analysis Date: **3/10/2022** SeqNo: **3048761** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	ND	0.0050								

Sample ID: **LCS-66043** SampType: **LCS** TestCode: **EPA 6010B: Total Recoverable Metals**

Client ID: **LCSW** Batch ID: **66043** RunNo: **86414**

Prep Date: **3/8/2022** Analysis Date: **3/10/2022** SeqNo: **3048763** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.097	0.0050	0.1000	0	96.8	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Souder, Miller and Associates

Work Order Number: 2203367

RcptNo: 1

Received By: Cheyenne Cason 3/5/2022 8:55:00 AM

Completed By: Cheyenne Cason 3/5/2022 12:02:21 PM

Reviewed By: TMC 3/7/22

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☑ No ☐ NA ☐
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐ # of preserved bottles checked for pH: 1 2 (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐ Adjusted? NO
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐ Checked by: JR 3/7/22

Special Handling (if applicable)

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

Person Notified: Date:

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

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.5	Good	Yes			
2	1.4	Good	Yes			
3	2.1	Good	Yes			

Released to Imaging: 10/2/2023 4:00:31 PM
Received by OCD: 10/2/2023 3:49:18 PM

Chain-of-Custody Record

Client: Souder, Miller & Associates

Mailing Address: 401 West Broadway
Farmington, NM 87401

Phone #: (505) 325-7535

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

QA/QC Package: tjlong@eprod.com

☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name:
Enterprise San Luis

Project #:

Project Manager:
~~Heather~~ Ashley Maxwell

Sampler: Heather Woods

On Ice: ☒ Yes ☐ No

# of Coolers: 3

Cooler Temp (Including CF): See Remarks (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2203367	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	RCI
3/4/22	1445	Aq	Non-Exempt Tank	(1) 1L Amber	Non	001					X	X		X			X
				(3) 40mL VOA	$HgCl_2$												
				(1) 125mL Plastic	HNO_3												
				(1) 125mL Plastic	zinc acetate / NaOH												
				(1) 125mL Plastic	NaOH												
				(1) 125mL Plastic	Non												

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
3/4/22	1751	Heath M. Woods	Chad Ward		3/4/22	1751
3/4/22	1930	Chad Ward	CHC courier		3/5/22	0855

Remarks:
TCLP compounds at TCLP limits
Invoice Enterprise cc Tom Long
2.5-0=2.5 1.4-0=1.4 2.1-0=2.1

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

Appendix D

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-138
Revised 08/01/11

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

2. Originating Site:
Kutz Compressor Station

3. Location of Material (Street Address, City, State or ULSTR):
UL N Section 31 Township 29 North Range 12 West; 36.723088, -108.088655, San Juan County, NM

4. Source and Description of Waste:
Source: Water/Oil from the Non Exempt WasteWater Tanks and from the compressor skid drains.
Description: Non Exempt/Non Hazardous Water from the compressor skids.
Estimated Volume _100__ yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd^3 / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long Thomas Long, representative or authorized agent for Enterprise Products Operating do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. ***Operator Use Only: Waste Acceptance Frequency*** ☐ ***Monthly*** ☐ ***Weekly*** ☐ ***Per Load***

☒ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☒ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long Thomas Long, representative for Enterprise Products Operating authorize to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for _____Agua Moss, LLC_____ do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: Triple S Trucking

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: ***Agua Moss, LLC - Permit #: NM-01-009**
Address of Facility: **SW/4 NW/4 Section 2, Township 29N, Range Crouch Mesa, NM**

Method of Treatment and/or Disposal:
☐ Evaporation ☒ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☐ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: _____ TITLE: _____ DATE: _____
SIGNATURE: _____ TELEPHONE NO.: _____
Surface Waste Management Facility Authorized Agent

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-138
Revised 08/01/11

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

2. Originating Site:
MAPL Dolores Pumping Station

3. Location of Material (Street Address, City, State or ULSTR):
SE ¼ Section 31 Township 37 North Range 15 West; 38.7416799, -108.433635

4. Source and Description of Waste:
Source: Water/Oil from the Non Exempt WasteWater Tanks and from the compressor skid drains.
Description: Non Exempt/Non Hazardous Water from the compressor skids.
Estimated Volume 80 yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd^3 / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long, representative or authorized agent for Enterprise Products Operating do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. ***Operator Use Only: Waste Acceptance Frequency*** ☐ ***Monthly*** ☐ ***Weekly*** ☐ ***Per Load***

☒ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☒ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long, representative for Enterprise Products Operating authorize to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for Agua Moss, LLC do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: To Be Determined

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: ***Agua Moss, LLC - Permit #: NM-01-009**
Address of Facility: **SW/4 NW/4 Section 2, Township 29N, Range Crouch Mesa, NM**

Method of Treatment and/or Disposal:
☐ Evaporation ☒ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☐ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: _____ TITLE: _____ DATE: _____
SIGNATURE: _____ TELEPHONE NO.: _____
Surface Waste Management Facility Authorized Agent

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-138
Revised 08/01/11

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

2. Originating Site:
Potter Compressor Station

3. Location of Material (Street Address, City, State or ULSTR):
UL A Section 19 Township 30 North Range 10 West; 36.803020, -107.921590, San Juan County, NM

4. Source and Description of Waste:
Source: Water/Oil from the Non Exempt WasteWater Tanks and from the compressor skid drains.
Description: Non Exempt/Non Hazardous Water from the compressor skids.
Estimated Volume 80 yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd^3 / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long, representative or authorized agent for Enterprise Products Operating do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. ***Operator Use Only: Waste Acceptance Frequency*** ☐ ***Monthly*** ☐ ***Weekly*** ☐ ***Per Load***

☒ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☒ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long, representative for Enterprise Products Operating authorize to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for Agua Moss, LLC do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: To Be Determined

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: ***Agua Moss, LLC - Permit #: NM-01-009**
Address of Facility: **SW/4 NW/4 Section 2, Township 29N, Range Crouch Mesa, NM**

Method of Treatment and/or Disposal:
☐ Evaporation ☒ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☐ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: _____ TITLE: _____ DATE: _____
SIGNATURE: _____ TELEPHONE NO.: _____
Surface Waste Management Facility Authorized Agent

Appendix D

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401

2. Originating Site:
Largo Compressor Station

3. Location of Material (Street Address, City, State or ULSTR):
Unit Letter J, Section 15, T26N, R7W; Lat 36.485365, Long. -107.555828; Rio Arriba, NM

Source: Water/Oil from the Non Exempt Waste Water Tanks and from the compressor skid drains.
Description: Non Exempt/Non Hazardous Water from the compressor skids.
Estimated Volume _80__ yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd^3 / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long _____ representative or authorized agent for Enterprise Field Services, LLC do hereby
PRINT & SIGN NAME COMPANY NAME
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☐ *Monthly* ☐ *Weekly* ☐ *Per Load*

☒ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☒ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, _____ 01-10-2022, representative for Enterprise Field Services, LLC authorize Agua Moss, LLC. to
Generator Signature
complete the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for _____ Agua Moss, LLC. _____ do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

4. **Transporter: TBD**

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: ***Agua Moss, LLC - Permit #: NM-01-009**
Address of Facility: **SW/4 NW/4 Section 2, Township 29N, Range Crouch Mesa, NM**

Method of Treatment and/or Disposal:
☐ Evaporation ☒ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☐ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: _____ TITLE: _____ DATE: _____
SIGNATURE: _____ TELEPHONE NO.: _____
Surface Waste Management Facility Authorized Agent

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-138
Revised 08/01/11

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

2. Originating Site:
Lindrith Compressor Station

3. Location of Material (Street Address, City, State or ULSTR):
UL I Section 18 Township 24 North Range 5 West; 36.310358, -107.395766

4. Source and Description of Waste:
Source: Water/Oil from the Non Exempt Wastewater Tanks and from the compressor skid drains.
Description: Non Exempt/Non Hazardous Water from the compressor skids
Estimated Volume _100__ yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd^3 / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long Thomas Long, representative or authorized agent for Enterprise Products Operating do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. ***Operator Use Only: Waste Acceptance Frequency*** ☐ ***Monthly*** ☐ ***Weekly*** ☐ ***Per Load***

☒ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☒ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long Thomas Long 12-13-2021, representative for Enterprise Products Operating authorize Agua Moss, LLC., to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for _____Agua Moss, LLC_____ do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: TBD

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: ***Agua Moss, LLC - Permit #: NM-01-009**
Address of Facility: **SW/4 NW/4 Section 2, Township 29N, Range Crouch Mesa, NM**

Method of Treatment and/or Disposal:
☐ Evaporation ☒ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☐ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: _____ TITLE: _____ DATE: _____
SIGNATURE: _____ TELEPHONE NO.: _____
Surface Waste Management Facility Authorized Agent

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

February 24, 2022

Ashley Maxwell

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

RE: Enterprise Hart Canyon 2 OrderNo.: 2201A40

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/27/2022 for the analyses presented in the following report.

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

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

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

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2201A40**
Date Reported: **2/24/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: East Non-Exempt Tank
Project: Enterprise Hart Canyon 2
Collection Date: 1/26/2022 12:00:00 PM
Lab ID: 2201A40-001 **Matrix:** AQUEOUS **Received Date:** 1/27/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 6020A: TOTAL METALS						Analyst:	**DBK**
Arsenic	ND	5.0		mg/L	5	2/1/2022 3:56:17 PM	65251
Lead	ND	5.0		mg/L	5	2/1/2022 3:56:17 PM	65251
Selenium	ND	1.0		mg/L	5	2/1/2022 3:56:17 PM	65251
EPA METHOD 7470A: MERCURY						Analyst:	**VP**
Mercury	ND	0.020		mg/L	1	2/15/2022 8:49:39 AM	65535
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst:	**JLF**
Barium	ND	100		mg/L	1	2/1/2022 4:15:28 PM	65251
Cadmium	ND	1.0		mg/L	1	2/1/2022 4:15:28 PM	65251
Chromium	ND	5.0		mg/L	1	2/1/2022 4:15:28 PM	65251
Silver	ND	5.0		mg/L	1	2/1/2022 4:15:28 PM	65251
EPA METHOD 8270SIM						Analyst:	**TOM**
Naphthalene	ND	1.0	D	µg/L	10	2/10/2022 3:55:00 PM	65306
1-Methylnaphthalene	ND	1.0	D	µg/L	10	2/10/2022 3:55:00 PM	65306
2-Methylnaphthalene	ND	1.0	D	µg/L	10	2/10/2022 3:55:00 PM	65306
Acenaphthylene	ND	1.0	D	µg/L	10	2/10/2022 3:55:00 PM	65306
Acenaphthene	ND	1.0	D	µg/L	10	2/10/2022 3:55:00 PM	65306
Fluorene	ND	1.0	D	µg/L	10	2/10/2022 3:55:00 PM	65306
Phenanthrene	ND	1.0	D	µg/L	10	2/10/2022 3:55:00 PM	65306
Anthracene	ND	1.0	D	µg/L	10	2/10/2022 3:55:00 PM	65306
Fluoranthene	ND	2.0	D	µg/L	10	2/10/2022 3:55:00 PM	65306
Pyrene	ND	2.0	D	µg/L	10	2/10/2022 3:55:00 PM	65306
Benz(a)anthracene	ND	1.0	D	µg/L	10	2/10/2022 3:55:00 PM	65306
Chrysene	ND	1.0	D	µg/L	10	2/10/2022 3:55:00 PM	65306
Benzo(b)fluoranthene	ND	1.0	D	µg/L	10	2/10/2022 3:55:00 PM	65306
Benzo(k)fluoranthene	ND	1.0	D	µg/L	10	2/10/2022 3:55:00 PM	65306
Benzo(a)pyrene	ND	0.70	D	µg/L	10	2/10/2022 3:55:00 PM	65306
Dibenz(a,h)anthracene	ND	1.0	D	µg/L	10	2/10/2022 3:55:00 PM	65306
Benzo(g,h,i)perylene	ND	1.0	D	µg/L	10	2/10/2022 3:55:00 PM	65306
Indeno(1,2,3-cd)pyrene	ND	3.0	D	µg/L	10	2/10/2022 3:55:00 PM	65306
Surr: Nitrobenzene-d5	0	21.9-89.8	SD	%Rec	10	2/10/2022 3:55:00 PM	65306
Surr: 2-Fluorobiphenyl	0	15-84.5	SD	%Rec	10	2/10/2022 3:55:00 PM	65306
Surr: 4-Terphenyl-d14	0	73.1-152	SD	%Rec	10	2/10/2022 3:55:00 PM	65306
EPA METHOD 8260B: VOLATILES						Analyst:	**JR**
Benzene	ND	0.50	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
Toluene	0.65	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
Ethylbenzene	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
Methyl tert-butyl ether (MTBE)	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520

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

Qualifiers:

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

Analytical Report
Lab Order **2201A40**
Date Reported: **2/24/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: East Non-Exempt Tank
Project: Enterprise Hart Canyon 2
Collection Date: 1/26/2022 12:00:00 PM
Lab ID: 2201A40-001 **Matrix:** AQUEOUS **Received Date:** 1/27/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
1,2,4-Trimethylbenzene	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
1,3,5-Trimethylbenzene	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
1,2-Dichloroethane (EDC)	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
1,2-Dibromoethane (EDB)	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
Naphthalene	ND	0.40	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
1-Methylnaphthalene	ND	0.80	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
2-Methylnaphthalene	ND	0.80	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
Acetone	ND	2.0	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
Bromobenzene	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
Bromodichloromethane	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
Bromoform	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
Bromomethane	ND	0.60	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
2-Butanone	ND	2.0	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
Carbon disulfide	ND	2.0	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
Carbon Tetrachloride	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
Chlorobenzene	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
Chloroethane	ND	0.40	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
Chloroform	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
Chloromethane	ND	0.60	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
2-Chlorotoluene	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
4-Chlorotoluene	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
cis-1,2-DCE	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
cis-1,3-Dichloropropene	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
1,2-Dibromo-3-chloropropane	ND	0.40	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
Dibromochloromethane	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
Dibromomethane	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
1,2-Dichlorobenzene	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
1,3-Dichlorobenzene	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
1,4-Dichlorobenzene	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
Dichlorodifluoromethane	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
1,1-Dichloroethane	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
1,1-Dichloroethene	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
1,2-Dichloropropane	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
1,3-Dichloropropane	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
2,2-Dichloropropane	ND	0.40	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
1,1-Dichloropropene	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
Hexachlorobutadiene	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
2-Hexanone	ND	2.0	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
Isopropylbenzene	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520

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

Qualifiers:

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

Analytical Report
Lab Order **2201A40**
Date Reported: **2/24/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: East Non-Exempt Tank
Project: Enterprise Hart Canyon 2
Collection Date: 1/26/2022 12:00:00 PM
Lab ID: 2201A40-001 **Matrix:** AQUEOUS **Received Date:** 1/27/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
4-Isopropyltoluene	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
4-Methyl-2-pentanone	ND	2.0	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
Methylene Chloride	ND	0.60	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
n-Butylbenzene	ND	0.60	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
n-Propylbenzene	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
sec-Butylbenzene	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
Styrene	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
tert-Butylbenzene	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
1,1,1,2-Tetrachloroethane	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
1,1,2,2-Tetrachloroethane	ND	0.40	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
Tetrachloroethene (PCE)	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
trans-1,2-DCE	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
trans-1,3-Dichloropropene	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
1,2,3-Trichlorobenzene	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
1,2,4-Trichlorobenzene	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
1,1,1-Trichloroethane	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
1,1,2-Trichloroethane	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
Trichloroethene (TCE)	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
Trichlorofluoromethane	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
1,2,3-Trichloropropane	ND	0.40	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
Vinyl chloride	ND	0.20	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
Xylenes, Total	ND	0.30	P	mg/L	200	1/31/2022 8:51:17 PM	R85520
Surr: 1,2-Dichloroethane-d4	108	70-130	P	%Rec	200	1/31/2022 8:51:17 PM	R85520
Surr: 4-Bromofluorobenzene	107	70-130	P	%Rec	200	1/31/2022 8:51:17 PM	R85520
Surr: Dibromofluoromethane	116	70-130	P	%Rec	200	1/31/2022 8:51:17 PM	R85520
Surr: Toluene-d8	97.2	70-130	P	%Rec	200	1/31/2022 8:51:17 PM	R85520

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

Qualifiers:

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

Pace Analytical®

ANALYTICAL REPORT

February 08, 2022

Hall Environmental Analysis Laboratory

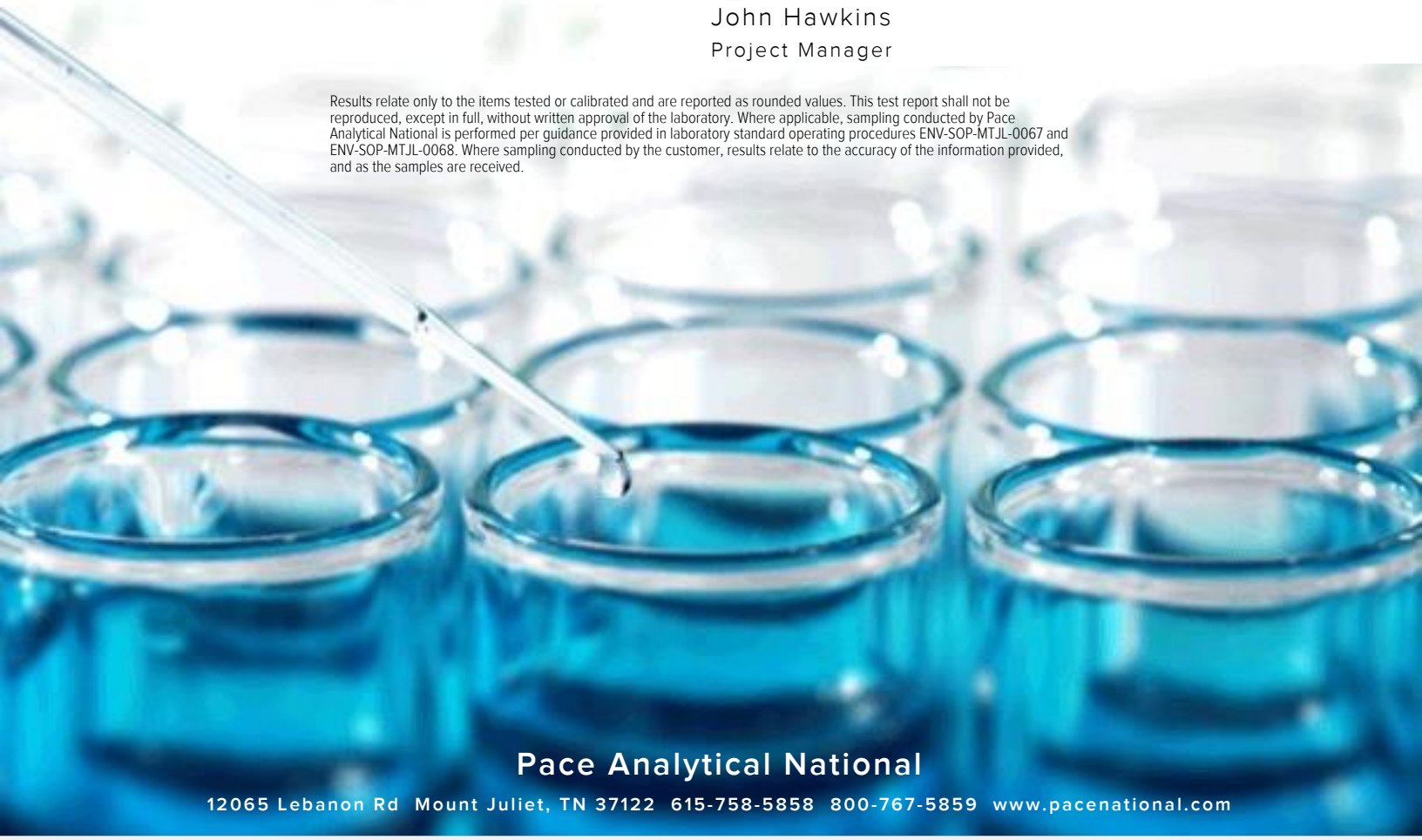
Sample Delivery Group:	L1455948
Samples Received:	01/28/2022
Project Number:	
Description:	

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

Entire Report Reviewed By: John V Hawkins

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

TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

2201A40-001DEF EAST NON-EXEMPT TANK L1455948-01 5

Qc: Quality Control Summary 6

Wet Chemistry by Method 4500 CN E-2016 6

Wet Chemistry by Method 4500 S2 D-2011 7

Wet Chemistry by Method 9040C 8

Wet Chemistry by Method D93/1010A 9

Gl: Glossary of Terms 10

Al: Accreditations & Locations 11

Sc: Sample Chain of Custody 12

SAMPLE SUMMARY

2201A40-001DEF EAST NON-EXEMPT TANK L1455948-01 GW

Collected by	Collected date/time	Received date/time
	01/26/22 12:00	01/28/22 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 4500 CN E-2016	WG1813644	10	02/07/22 11:36	02/07/22 18:47	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500 S2 D-2011	WG1810112	1	01/29/22 13:26	01/29/22 13:26	AW	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG1810146	1	01/29/22 15:00	01/29/22 15:00	GI	Mt. Juliet, TN
Wet Chemistry by Method D93/1010A	WG1810473	1	01/31/22 16:27	01/31/22 16:27	WOS	Mt. Juliet, TN

CASE NARRATIVE

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

John Hawkins
Project Manager

Project Narrative

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

Wet Chemistry by Method 4500 CN E-2016

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Cyanide	ND		0.0500	10	02/07/2022 18:47	WG1813644

Wet Chemistry by Method 4500 S2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Sulfide	ND		0.0500	1	01/29/2022 13:26	WG1810112

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
Corrosivity by pH	6.92	T8	1	01/29/2022 15:00	WG1810146

Sample Narrative:

L1455948-01 WG1810146: 6.92 at 16.2C

Wet Chemistry by Method D93/1010A

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	deg F			date / time	
Flashpoint	DNF at 170		1	01/31/2022 16:27	WG1810473

Method Blank (MB)

(MB) R3757767-1 02/07/22 17:00

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

L1455021-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1455021-02 02/07/22 18:42 • (DUP) R3757767-5 02/07/22 18:43

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

L1455881-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1455881-01 02/07/22 18:44 • (DUP) R3757767-6 02/07/22 18:46

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

Laboratory Control Sample (LCS)

(LCS) R3757767-2 02/07/22 17:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Cyanide	0.100	0.105	105	87.1-120	

L1455960-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1455960-01 02/07/22 17:21 • (MS) R3757767-3 02/07/22 17:22 • (MSD) R3757767-4 02/07/22 18:18

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	ND	0.0968	0.0943	96.8	94.3	1	90.0-110			2.62	20

Method Blank (MB)

(MB) R3754894-1 01/29/22 13:15

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

Laboratory Control Sample (LCS)

(LCS) R3754894-2 01/29/22 13:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Sulfide	0.500	0.506	101	85.0-115	

L1455948-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1455948-01 01/29/22 15:00 • (DUP) R3754909-2 01/29/22 15:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
Corrosivity by pH	6.92	6.94	1	0.289		1

Sample Narrative:

OS: 6.92 at 16.2C

DUP: 6.94 at 16.2C

L1455953-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1455953-01 01/29/22 15:00 • (DUP) R3754909-3 01/29/22 15:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
Corrosivity by pH	6.94	6.91	1	0.433		1

Sample Narrative:

OS: 6.94 at 16C

DUP: 6.91 at 15.5C

Laboratory Control Sample (LCS)

(LCS) R3754909-1 01/29/22 15:00

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

Sample Narrative:

LCS: 10 at 17C

L1455047-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1455047-01 01/31/22 16:27 • (DUP) R3755406-3 01/31/22 16:27

Analyte	Original Result deg F	DUP Result deg F	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Flashpoint	128	134	1	4.59		10

L1455953-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1455953-01 01/31/22 16:27 • (DUP) R3755406-4 01/31/22 16:27

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

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

(LCS) R3755406-1 01/31/22 16:27 • (LCSD) R3755406-2 01/31/22 16:27

Analyte	Spike Amount deg F	LCS Result deg F	LCSD Result deg F	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Flashpoint	126	128	128	101	101	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

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

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

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

Received by OCD: 10/2/2023 3:49:18 PM

HALL ENVIRONMENTAL ANALYSIS LABORATORY

CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

A237

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

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

L1455948

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2201A40-001D	East Non-Exempt Tank ~~East~~ SU	500HDPE	Aqueous	1/26/2022 12:00:00 PM	1	RCI
2	2201A40-001E	East Non-Exempt Tank ~~East~~ 1,27,22	500PLNAOH ZNAC	Aqueous	1/26/2022 12:00:00 PM	1	RCI
3	2201A40-001F	East Non-Exempt Tank ~~East~~	500PL-NaOH	Aqueous	1/26/2022 12:00:00 PM	1	RCI

-01
-02
-03

5528 5947 9889 1/28

Sample Receipt Checklist

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

7R RCV

SPECIAL INSTRUCTIONS / COMMENTS:

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

Relinquished By:	Date: 1/27/2022	Time: 8:54 AM	Received By:	Date: 1/28/22	Time: 945
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

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

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

FOR LAB USE ONLY
NSA6
Temp of samples 2240=2°C Attempt to Cool ?
Comments:

Released to Imaging: 10/2/2023 4:00:31 PM

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201A40**
24-Feb-22

Client: Souder, Miller and Associates
Project: Enterprise Hart Canyon 2

Sample ID: **MB-65251** SampType: **MBLK** TestCode: **EPA Method 6020A: Total Metals**
Client ID: **PBW** Batch ID: **65251** RunNo: **85532**
Prep Date: **1/27/2022** Analysis Date: **2/1/2022** SeqNo: **3010604** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Lead	ND	0.0010								
Selenium	ND	0.0010								

Sample ID: **MSLCS-65251** SampType: **LCS** TestCode: **EPA Method 6020A: Total Metals**
Client ID: **LCSW** Batch ID: **65251** RunNo: **85532**
Prep Date: **1/27/2022** Analysis Date: **2/1/2022** SeqNo: **3010606** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.048	0.0010	0.05000	0	96.5	80	120			
Lead	0.046	0.0010	0.05000	0	92.4	80	120			
Selenium	0.048	0.0010	0.05000	0	95.7	80	120			

Sample ID: **MSLLLCS-65251** SampType: **LCSLL** TestCode: **EPA Method 6020A: Total Metals**
Client ID: **BatchQC** Batch ID: **65251** RunNo: **85532**
Prep Date: **1/27/2022** Analysis Date: **2/1/2022** SeqNo: **3010608** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.010	0.01000	0	97.3	70	130			
Lead	ND	0.010	0.01000	0	96.4	70	130			
Selenium	ND	0.010	0.01000	0	92.5	70	130			

Sample ID: **2201A40-001CMSLL** SampType: **MS** TestCode: **EPA Method 6020A: Total Metals**
Client ID: **East Non-Exempt T** Batch ID: **65251** RunNo: **85532**
Prep Date: **1/27/2022** Analysis Date: **2/1/2022** SeqNo: **3010696** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.055	0.0050	0.05000	0.007697	94.5	75	125			
Lead	0.052	0.0050	0.05000	0	103	75	125			
Selenium	0.051	0.0050	0.05000	0.004882	91.9	75	125			

Sample ID: **2201A40-001CMSDL** SampType: **MSD** TestCode: **EPA Method 6020A: Total Metals**
Client ID: **East Non-Exempt T** Batch ID: **65251** RunNo: **85532**
Prep Date: **1/27/2022** Analysis Date: **2/1/2022** SeqNo: **3010697** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.056	0.0050	0.05000	0.007697	96.2	75	125	1.57	20	
Lead	0.051	0.0050	0.05000	0	103	75	125	0.515	20	
Selenium	0.053	0.0050	0.05000	0.004882	96.5	75	125	4.40	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201A40**
24-Feb-22

Client: Souder, Miller and Associates
Project: Enterprise Hart Canyon 2

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **R85520** RunNo: **85520**
Prep Date: Analysis Date: **1/31/2022** SeqNo: **3009867** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	93.3	70	130			
Toluene	19	1.0	20.00	0	95.1	70	130			
Chlorobenzene	20	1.0	20.00	0	100	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	95.4	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	93.8	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		97.0	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130			
Surr: Dibromofluoromethane	11		10.00		107	70	130			
Surr: Toluene-d8	9.9		10.00		99.1	70	130			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R85520** RunNo: **85520**
Prep Date: Analysis Date: **1/31/2022** SeqNo: **3009882** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201A40**
24-Feb-22

Client: Souder, Miller and Associates
Project: Enterprise Hart Canyon 2

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**	
Client ID: **PBW**	Batch ID: **R85520**	RunNo: **85520**	
Prep Date:	Analysis Date: **1/31/2022**	SeqNo: **3009882**	Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201A40**
24-Feb-22

Client: Souder, Miller and Associates
Project: Enterprise Hart Canyon 2

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**	
Client ID: **PBW**	Batch ID: **R85520**	RunNo: **85520**	
Prep Date:	Analysis Date: **1/31/2022**	SeqNo: **3009882**	Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		105	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130			
Surr: Dibromofluoromethane	11		10.00		111	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201A40**
24-Feb-22

Client: Souder, Miller and Associates
Project: Enterprise Hart Canyon 2

Sample ID: **mb-65306** SampType: **MBLK** TestCode: **EPA Method 8270SIM**
Client ID: **PBW** Batch ID: **65306** RunNo: **85763**
Prep Date: **2/1/2022** Analysis Date: **2/10/2022** SeqNo: **3019423** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.10								
1-Methylnaphthalene	ND	0.10								
2-Methylnaphthalene	ND	0.10								
Acenaphthylene	ND	0.10								
Acenaphthene	ND	0.10								
Fluorene	ND	0.10								
Phenanthrene	ND	0.10								
Anthracene	ND	0.10								
Fluoranthene	ND	0.20								
Pyrene	ND	0.20								
Benz(a)anthracene	ND	0.10								
Chrysene	ND	0.10								
Benzo(b)fluoranthene	ND	0.10								
Benzo(k)fluoranthene	ND	0.10								
Benzo(a)pyrene	ND	0.070								
Dibenz(a,h)anthracene	ND	0.10								
Benzo(g,h,i)perylene	ND	0.10								
Indeno(1,2,3-cd)pyrene	ND	0.30								
Surr: Nitrobenzene-d5	2.4		4.000		59.0	21.9	89.8			
Surr: 2,4,6-Tribromophenol	4.9		8.000		61.0	23.4	71.6			
Surr: 2-Fluorobiphenyl	1.9		4.000		46.5	15	84.5			
Surr: 4-Terphenyl-d14	3.4		4.000		86.0	73.1	152			

Sample ID: **lcs-65306** SampType: **LCS** TestCode: **EPA Method 8270SIM**
Client ID: **LCSW** Batch ID: **65306** RunNo: **85763**
Prep Date: **2/1/2022** Analysis Date: **2/10/2022** SeqNo: **3019424** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	1.0	0.10	2.000	0	50.0	26.5	90.9			
1-Methylnaphthalene	1.0	0.10	2.000	0	52.0	27.9	88.2			
2-Methylnaphthalene	1.0	0.10	2.000	0	52.0	29.2	87.5			
Acenaphthylene	1.3	0.10	2.000	0	64.0	30	92.9			
Acenaphthene	1.1	0.10	2.000	0	55.0	25.6	93.9			
Fluorene	1.2	0.10	2.000	0	62.0	27.4	95.1			
Phenanthrene	1.3	0.10	2.000	0	66.0	25.1	104			
Anthracene	1.5	0.10	2.000	0	74.0	30.1	100			
Fluoranthene	2.0	0.20	2.000	0	101	41.6	126			
Pyrene	1.8	0.20	2.000	0	92.0	34.5	112			
Benz(a)anthracene	2.6	0.10	2.000	0	130	43.9	132			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201A40**
24-Feb-22

Client: Souder, Miller and Associates
Project: Enterprise Hart Canyon 2

Sample ID: **lcs-65306** SampType: **LCS** TestCode: **EPA Method 8270SIM**
Client ID: **LCSW** Batch ID: **65306** RunNo: **85763**
Prep Date: **2/1/2022** Analysis Date: **2/10/2022** SeqNo: **3019424** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chrysene	1.8	0.10	2.000	0	88.0	39.8	118			
Benzo(b)fluoranthene	2.3	0.10	2.000	0	113	37.2	134			
Benzo(k)fluoranthene	2.0	0.10	2.000	0	98.0	43.8	122			
Benzo(a)pyrene	2.3	0.070	2.000	0	113	36.6	122			
Dibenz(a,h)anthracene	2.2	0.10	2.000	0	112	35.5	129			
Benzo(g,h,i)perylene	2.0	0.10	2.000	0	102	39.4	120			
Indeno(1,2,3-cd)pyrene	2.6	0.30	2.000	0	132	24.9	150			
Surr: Nitrobenzene-d5	3.9		5.000		77.6	21.9	89.8			
Surr: 2,4,6-Tribromophenol	8.1		10.00		80.8	23.4	71.6			S
Surr: 2-Fluorobiphenyl	2.9		5.000		58.8	15	84.5			
Surr: 4-Terphenyl-d14	6.0		5.000		121	73.1	152			

Sample ID: **lcsd-65306** SampType: **LCSD** TestCode: **EPA Method 8270SIM**
Client ID: **LCSS02** Batch ID: **65306** RunNo: **85763**
Prep Date: **2/1/2022** Analysis Date: **2/10/2022** SeqNo: **3019425** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	1.1	0.10	2.000	0	56.0	26.5	90.9	11.3	37.6	
1-Methylnaphthalene	1.1	0.10	2.000	0	57.0	27.9	88.2	9.17	33.1	
2-Methylnaphthalene	1.2	0.10	2.000	0	58.0	29.2	87.5	10.9	35.4	
Acenaphthylene	1.3	0.10	2.000	0	67.0	30	92.9	4.58	31.7	
Acenaphthene	1.2	0.10	2.000	0	61.0	25.6	93.9	10.3	36.3	
Fluorene	1.3	0.10	2.000	0	65.0	27.4	95.1	4.72	32.2	
Phenanthrene	1.3	0.10	2.000	0	67.0	25.1	104	1.50	32.9	
Anthracene	1.4	0.10	2.000	0	70.0	30.1	100	5.56	31.5	
Fluoranthene	1.9	0.20	2.000	0	93.0	41.6	126	8.25	26.5	
Pyrene	1.8	0.20	2.000	0	90.0	34.5	112	2.20	23.3	
Benz(a)anthracene	2.2	0.10	2.000	0	112	43.9	132	14.9	29.5	
Chrysene	1.8	0.10	2.000	0	91.0	39.8	118	3.35	22.3	
Benzo(b)fluoranthene	2.2	0.10	2.000	0	108	37.2	134	4.52	25.2	
Benzo(k)fluoranthene	1.9	0.10	2.000	0	97.0	43.8	122	1.03	23.1	
Benzo(a)pyrene	2.1	0.070	2.000	0	106	36.6	122	6.39	22.4	
Dibenz(a,h)anthracene	2.2	0.10	2.000	0	109	35.5	129	2.71	23.7	
Benzo(g,h,i)perylene	2.0	0.10	2.000	0	102	39.4	120	0	22.9	
Indeno(1,2,3-cd)pyrene	2.5	0.30	2.000	0	124	24.9	150	6.25	26.6	
Surr: Nitrobenzene-d5	4.0		5.000		79.2	21.9	89.8	0	0	
Surr: 2,4,6-Tribromophenol	6.9		10.00		69.2	23.4	71.6	0	0	
Surr: 2-Fluorobiphenyl	3.4		5.000		67.2	15	84.5	0	0	
Surr: 4-Terphenyl-d14	6.0		5.000		121	73.1	152	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2201A40**

24-Feb-22

Client: Souder, Miller and Associates

Project: Enterprise Hart Canyon 2

Sample ID: **MB-65535**	SampType: **MBLK**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **PBW**	Batch ID: **65535**	RunNo: **85827**
Prep Date: **2/14/2022**	Analysis Date: **2/15/2022**	SeqNo: **3022443** Units: **mg/L**

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

Sample ID: **LCSLL-65535**	SampType: **LCSLL**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **BatchQC**	Batch ID: **65535**	RunNo: **85827**
Prep Date: **2/14/2022**	Analysis Date: **2/15/2022**	SeqNo: **3022444** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020	0.0001500	0	119	50	150			

Sample ID: **LCS-65535**	SampType: **LCS**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **LCSW**	Batch ID: **65535**	RunNo: **85827**
Prep Date: **2/14/2022**	Analysis Date: **2/15/2022**	SeqNo: **3022445** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0050	0.00020	0.005000	0	99.9	85	115			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201A40**
24-Feb-22

Client: Souder, Miller and Associates
Project: Enterprise Hart Canyon 2

Sample ID: **MB-65251**	SampType: **MBLK**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW**	Batch ID: **65251**	RunNo: **85585**
Prep Date: **1/27/2022**	Analysis Date: **2/1/2022**	SeqNo: **3012820** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Silver	ND	0.0050								

Sample ID: **LCS-65251**	SampType: **LCS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW**	Batch ID: **65251**	RunNo: **85585**
Prep Date: **1/27/2022**	Analysis Date: **2/1/2022**	SeqNo: **3012822** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.50	0.0020	0.5000	0	100	80	120			
Cadmium	0.51	0.0020	0.5000	0	102	80	120			
Chromium	0.50	0.0060	0.5000	0	100	80	120			
Silver	0.10	0.0050	0.1000	0	100	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Souder, Miller and Associates

Work Order Number: 2201A40

RcptNo: 1

Received By: Cheyenne Cason 1/27/2022 8:00:00 AM

Completed By: Tracy Casarrubias 1/27/2022 8:35:51 AM

Reviewed By: JA 1/27/22

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
5. Sample(s) in proper container(s)? Samples not frozen. Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: 1 2 (<2 or >12 unless noted) Cm 1/27/22

Adjusted? no Cm 1/27/22

Checked by: CM 1/27/22

Special Handling (if applicable)

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

Person Notified: Date:

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

Regarding:

Client Instructions:

16. Additional remarks: COOL E d:d not Ph >12

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.9	Good	Yes			
2	-0.9	Good	Yes			

Released to Imaging: 10/2/2023 4:00:31 PM
Received by OCD: 10/2/2023 3:49:18 PM

Chain-of-Custody Record

Client: Souder, Miller & Associates

Mailing Address: 401 West Broadway
Farmington, NM 87401

Phone #: (505) 325-7535

email or Fax#: Ashley.Maxwell@sodermiller.com

QA/QC Package: tjlong@eprod.com
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Enterprise Hart Canyon #2

Project #:

Project Manager: Ashley Maxwell

Sampler: Heather Woods

On Ice: ☒ Yes ☐ No

# of Coolers: 2 1.9 - 0 = 1.9

Cooler Temp (including CF): 0.9 - 0 = -0.9 (°C)

HEAL No. 2201A40

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
1/24/22	1200	Aq	East Non-Exempt Tank	(1) 1L Amber	Non	001
				(3) 40mL VoA	$HgCl_2$	
				(1) 125ml Plastic	HNO_3	
				(1) 125mL Plastic	2mL acetate / NaOH	
				(1) 125mL Plastic	NaOH	
				(1) 125mL Plastic	Non	

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
1/24/22	1619	Heather M. Woods	Chris Walls		1/24/22	1616
1/24/22	1756	Chris Walls	Cmc courier		1/27/22	0800

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA) Full List	8270 (Semi-VOA)	Total Coliform (Present/Absent)	RCI						
				X	X		X			X						

Remarks:
TCLP compounds at TCLP Limits
Invoice Enterprise cc Tom Long
Samples not Frozen cmc 1/27/22

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

February 24, 2022

Ashley Maxwell

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

RE: Enterprise Manzaneres CS OrderNo.: 2201A45

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/27/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2201A45**
Date Reported: **2/24/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Non-Exempt Tank
Project: Enterprise Manzaneres CS
Collection Date: 1/26/2022 12:55:00 PM
Lab ID: 2201A45-001 **Matrix:** AQUEOUS **Received Date:** 1/27/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 6020A: TOTAL METALS						Analyst:	**DBK**
Arsenic	ND	5.0		mg/L	1	2/1/2022 3:48:20 PM	65251
Lead	ND	5.0		mg/L	1	2/1/2022 3:48:20 PM	65251
Selenium	ND	1.0		mg/L	1	2/1/2022 3:48:20 PM	65251
EPA METHOD 7470A: MERCURY						Analyst:	**VP**
Mercury	ND	0.020		mg/L	1	2/15/2022 8:56:08 AM	65535
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst:	**JLF**
Barium	ND	100		mg/L	1	2/1/2022 4:17:18 PM	65251
Cadmium	ND	1.0		mg/L	1	2/1/2022 4:17:18 PM	65251
Chromium	ND	5.0		mg/L	1	2/1/2022 4:17:18 PM	65251
Silver	ND	5.0		mg/L	1	2/1/2022 4:17:18 PM	65251
EPA METHOD 8270SIM						Analyst:	**TOM**
Naphthalene	ND	1.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
1-Methylnaphthalene	ND	1.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
2-Methylnaphthalene	ND	1.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Acenaphthylene	ND	1.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Acenaphthene	ND	1.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Fluorene	ND	1.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Phenanthrene	ND	1.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Anthracene	ND	1.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Fluoranthene	ND	2.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Pyrene	ND	2.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Benz(a)anthracene	ND	1.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Chrysene	ND	1.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Benzo(b)fluoranthene	ND	1.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Benzo(k)fluoranthene	ND	1.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Benzo(a)pyrene	ND	0.70	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Dibenz(a,h)anthracene	ND	1.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Benzo(g,h,i)perylene	ND	1.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Indeno(1,2,3-cd)pyrene	ND	3.0	D	µg/L	10	2/10/2022 3:09:00 PM	65306
Surr: Nitrobenzene-d5	0	21.9-89.8	SD	%Rec	10	2/10/2022 3:09:00 PM	65306
Surr: 2-Fluorobiphenyl	0	15-84.5	SD	%Rec	10	2/10/2022 3:09:00 PM	65306
Surr: 4-Terphenyl-d14	0	73.1-152	SD	%Rec	10	2/10/2022 3:09:00 PM	65306
EPA METHOD 8260B: VOLATILES						Analyst:	**JR**
Benzene	ND	0.50	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Toluene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Ethylbenzene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Methyl tert-butyl ether (MTBE)	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520

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

Qualifiers:

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D	Sample Diluted Due to Matrix
E	Estimated value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
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S	% Recovery outside of range due to dilution or matrix interference

Analytical Report
Lab Order **2201A45**
Date Reported: **2/24/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Non-Exempt Tank
Project: Enterprise Manzaneres CS
Collection Date: 1/26/2022 12:55:00 PM
Lab ID: 2201A45-001 **Matrix:** AQUEOUS **Received Date:** 1/27/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
1,2,4-Trimethylbenzene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,3,5-Trimethylbenzene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,2-Dichloroethane (EDC)	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,2-Dibromoethane (EDB)	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Naphthalene	ND	0.40	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1-Methylnaphthalene	ND	0.80	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
2-Methylnaphthalene	ND	0.80	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Acetone	ND	2.0	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Bromobenzene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Bromodichloromethane	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Bromoform	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Bromomethane	ND	0.60	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
2-Butanone	ND	2.0	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Carbon disulfide	ND	2.0	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Carbon Tetrachloride	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Chlorobenzene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Chloroethane	ND	0.40	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Chloroform	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Chloromethane	ND	0.60	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
2-Chlorotoluene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
4-Chlorotoluene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
cis-1,2-DCE	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
cis-1,3-Dichloropropene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,2-Dibromo-3-chloropropane	ND	0.40	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Dibromochloromethane	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Dibromomethane	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,2-Dichlorobenzene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,3-Dichlorobenzene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,4-Dichlorobenzene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Dichlorodifluoromethane	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,1-Dichloroethane	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,1-Dichloroethene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,2-Dichloropropane	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,3-Dichloropropane	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
2,2-Dichloropropane	ND	0.40	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,1-Dichloropropene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Hexachlorobutadiene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
2-Hexanone	ND	2.0	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Isopropylbenzene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520

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

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D	Sample Diluted Due to Matrix	E	Estimated value
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ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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Analytical Report
Lab Order **2201A45**
Date Reported: **2/24/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Non-Exempt Tank
Project: Enterprise Manzaneres CS
Collection Date: 1/26/2022 12:55:00 PM
Lab ID: 2201A45-001 **Matrix:** AQUEOUS **Received Date:** 1/27/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
4-Isopropyltoluene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
4-Methyl-2-pentanone	ND	2.0	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Methylene Chloride	ND	0.60	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
n-Butylbenzene	ND	0.60	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
n-Propylbenzene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
sec-Butylbenzene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Styrene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
tert-Butylbenzene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,1,1,2-Tetrachloroethane	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,1,2,2-Tetrachloroethane	ND	0.40	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Tetrachloroethene (PCE)	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
trans-1,2-DCE	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
trans-1,3-Dichloropropene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,2,3-Trichlorobenzene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,2,4-Trichlorobenzene	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,1,1-Trichloroethane	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,1,2-Trichloroethane	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Trichloroethene (TCE)	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Trichlorofluoromethane	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
1,2,3-Trichloropropane	ND	0.40	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Vinyl chloride	ND	0.20	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Xylenes, Total	ND	0.30	P	mg/L	200	1/31/2022 9:19:58 PM	R85520
Surr: 1,2-Dichloroethane-d4	103	70-130	P	%Rec	200	1/31/2022 9:19:58 PM	R85520
Surr: 4-Bromofluorobenzene	106	70-130	P	%Rec	200	1/31/2022 9:19:58 PM	R85520
Surr: Dibromofluoromethane	113	70-130	P	%Rec	200	1/31/2022 9:19:58 PM	R85520
Surr: Toluene-d8	95.8	70-130	P	%Rec	200	1/31/2022 9:19:58 PM	R85520

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

Qualifiers:

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H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Pace Analytical®

ANALYTICAL REPORT

February 08, 2022

Hall Environmental Analysis Laboratory

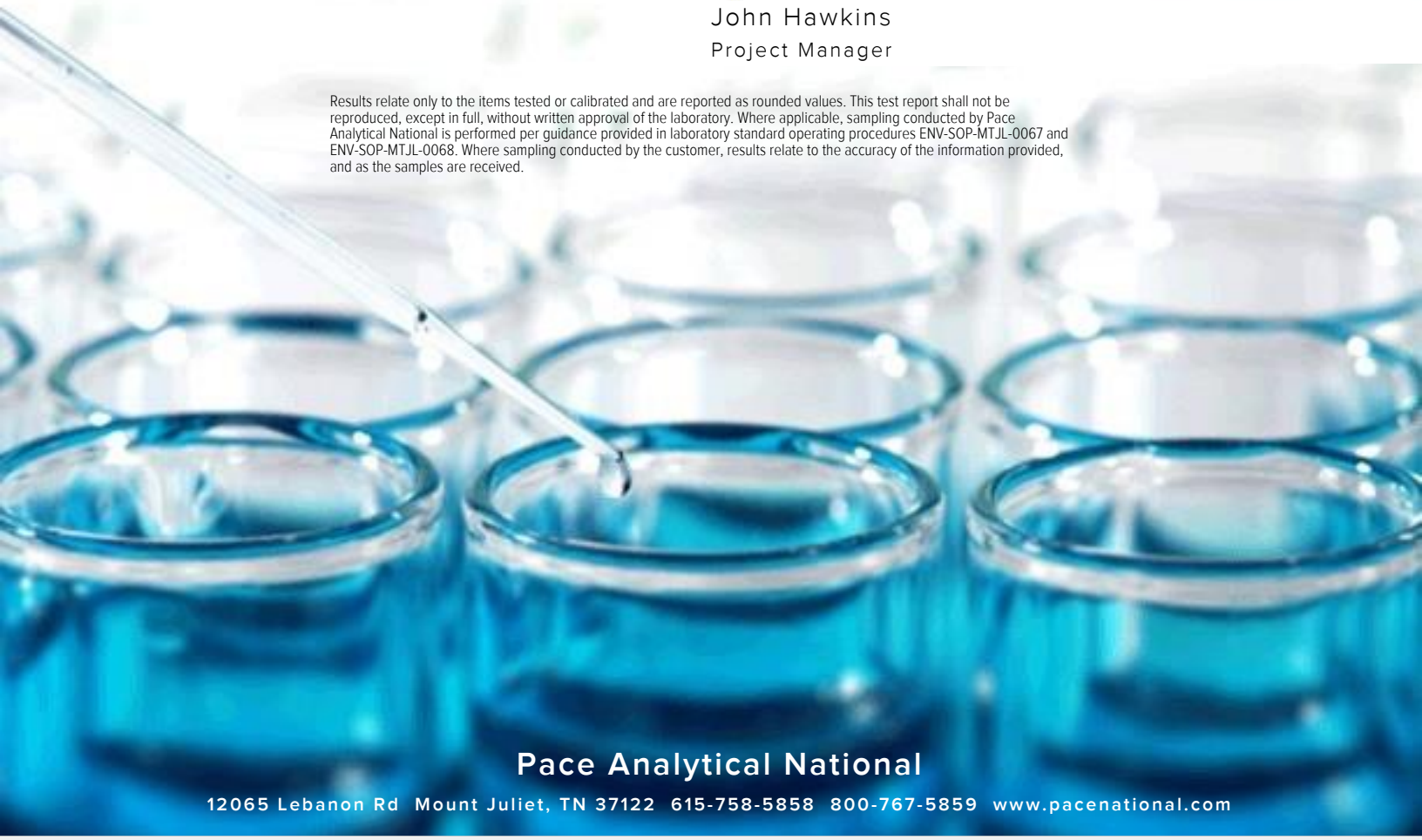
Sample Delivery Group:	L1455960
Samples Received:	01/28/2022
Project Number:	
Description:	

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

Entire Report Reviewed By:

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

TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

2201A45-001DEF NON-EXEMPT TANK L1455960-01 5

Qc: Quality Control Summary 6

Wet Chemistry by Method 4500 CN E-2016 6

Wet Chemistry by Method 4500 S2 D-2011 7

Wet Chemistry by Method 9040C 8

Wet Chemistry by Method D93/1010A 9

Gl: Glossary of Terms 10

Al: Accreditations & Locations 11

Sc: Sample Chain of Custody 12

SAMPLE SUMMARY

2201A45-001DEF NON-EXEMPT TANK L1455960-01 GW

Collected by	Collected date/time	Received date/time
	01/26/22 12:55	01/28/22 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 4500 CN E-2016	WG1813644	1	02/07/22 11:36	02/07/22 17:21	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500 S2 D-2011	WG1810112	1	01/29/22 13:28	01/29/22 13:28	AW	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG1810146	1	01/29/22 15:00	01/29/22 15:00	GI	Mt. Juliet, TN
Wet Chemistry by Method D93/1010A	WG1810976	1	02/01/22 00:12	02/01/22 00:12	WOS	Mt. Juliet, TN

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

John Hawkins
Project Manager

Project Narrative

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

Wet Chemistry by Method 4500 CN E-2016

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Cyanide	ND		0.00500	1	02/07/2022 17:21	WG1813644

Wet Chemistry by Method 4500 S2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Sulfide	ND		0.0500	1	01/29/2022 13:28	WG1810112

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
Corrosivity by pH	6.57	T8	1	01/29/2022 15:00	WG1810146

Sample Narrative:

L1455960-01 WG1810146: 6.57 at 15.6C

Wet Chemistry by Method D93/1010A

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	deg F			date / time	
Flashpoint	DNF at 170		1	02/01/2022 00:12	WG1810976

Method Blank (MB)

(MB) R3757767-1 02/07/22 17:00

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

L1455021-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1455021-02 02/07/22 18:42 • (DUP) R3757767-5 02/07/22 18:43

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

L1455881-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1455881-01 02/07/22 18:44 • (DUP) R3757767-6 02/07/22 18:46

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

Laboratory Control Sample (LCS)

(LCS) R3757767-2 02/07/22 17:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Cyanide	0.100	0.105	105	87.1-120	

L1455960-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1455960-01 02/07/22 17:21 • (MS) R3757767-3 02/07/22 17:22 • (MSD) R3757767-4 02/07/22 18:18

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	ND	0.0968	0.0943	96.8	94.3	1	90.0-110			2.62	20

Method Blank (MB)

(MB) R3754894-1 01/29/22 13:15

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

Laboratory Control Sample (LCS)

(LCS) R3754894-2 01/29/22 13:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Sulfide	0.500	0.506	101	85.0-115	

L1455948-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1455948-01 01/29/22 15:00 • (DUP) R3754909-2 01/29/22 15:00

Analyte	Original Result su	DUP Result su	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Corrosivity by pH	6.92	6.94	1	0.289		1

Sample Narrative:
OS: 6.92 at 16.2C
DUP: 6.94 at 16.2C

L1455953-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1455953-01 01/29/22 15:00 • (DUP) R3754909-3 01/29/22 15:00

Analyte	Original Result su	DUP Result su	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Corrosivity by pH	6.94	6.91	1	0.433		1

Sample Narrative:
OS: 6.94 at 16C
DUP: 6.91 at 15.5C

Laboratory Control Sample (LCS)

(LCS) R3754909-1 01/29/22 15:00

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

Sample Narrative:
LCS: 10 at 17C

L1456189-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1456189-02 02/01/22 00:12 • (DUP) R3755471-3 02/01/22 00:12

Analyte	Original Result deg F	DUP Result deg F	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Flashpoint	110	116	1	5.33		10

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

(LCS) R3755471-1 02/01/22 00:12 • (LCSD) R3755471-2 02/01/22 00:12

Analyte	Spike Amount deg F	LCS Result deg F	LCSD Result deg F	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Flashpoint	126	126	126	99.7	99.7	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

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

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

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

Received by OCD: 10/2/2023 3:49:18 PM

ENVIRONMENTAL ANALYSIS LABORATORY

CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

A235

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

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

L1455960

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2201A45-001D	Non-Exempt Tank	500HDPE	Aqueous	1/26/2022 12:55:00 PM	1	RCI
2	2201A45-001E	Non-Exempt Tank	500PLNAOH ZNAC	Aqueous	1/26/2022 12:55:00 PM	1	RCI
3	2201A45-001F	Non-Exempt Tank	500PL-NaOH	Aqueous	1/26/2022 12:55:00 PM	1	RCI

} for 1

5528 5947 9889

Sample Receipt Checklist

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

7/2 RCV

NSA 2.2+0=2.2

SPECIAL INSTRUCTIONS / COMMENTS:

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

Relinquished By:	Date: 1/27/2022	Time: 10:59 AM	Received By:	Date: 1/28/22	Time: 945
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

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

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

FOR LAB USE ONLY

Temp of samples _____ °C Attempt to Cool ? _____

Comments: _____

Released to Imaging: 10/2/2023 4:00:31 PM

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201A45**
24-Feb-22

Client: Souder, Miller and Associates
Project: Enterprise Manzaneres CS

Sample ID: **MB-65251**	SampType: **MBLK**	TestCode: **EPA Method 6020A: Total Metals**
Client ID: **PBW**	Batch ID: **65251**	RunNo: **85532**
Prep Date: **1/27/2022**	Analysis Date: **2/1/2022**	SeqNo: **3010604** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Lead	ND	0.0010								
Selenium	ND	0.0010								

Sample ID: **MSLCS-65251**	SampType: **LCS**	TestCode: **EPA Method 6020A: Total Metals**
Client ID: **LCSW**	Batch ID: **65251**	RunNo: **85532**
Prep Date: **1/27/2022**	Analysis Date: **2/1/2022**	SeqNo: **3010606** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.048	0.0010	0.05000	0	96.5	80	120			
Lead	0.046	0.0010	0.05000	0	92.4	80	120			
Selenium	0.048	0.0010	0.05000	0	95.7	80	120			

Sample ID: **MSLLLCS-65251**	SampType: **LCSLL**	TestCode: **EPA Method 6020A: Total Metals**
Client ID: **BatchQC**	Batch ID: **65251**	RunNo: **85532**
Prep Date: **1/27/2022**	Analysis Date: **2/1/2022**	SeqNo: **3010608** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.010	0.01000	0	97.3	70	130			
Lead	ND	0.010	0.01000	0	96.4	70	130			
Selenium	ND	0.010	0.01000	0	92.5	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201A45**
24-Feb-22

Client: Souder, Miller and Associates
Project: Enterprise Manzaneres CS

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **R85520** RunNo: **85520**
Prep Date: Analysis Date: **1/31/2022** SeqNo: **3009867** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	93.3	70	130			
Toluene	19	1.0	20.00	0	95.1	70	130			
Chlorobenzene	20	1.0	20.00	0	100	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	95.4	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	93.8	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		97.0	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130			
Surr: Dibromofluoromethane	11		10.00		107	70	130			
Surr: Toluene-d8	9.9		10.00		99.1	70	130			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R85520** RunNo: **85520**
Prep Date: Analysis Date: **1/31/2022** SeqNo: **3009882** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201A45**
24-Feb-22

Client: Souder, Miller and Associates
Project: Enterprise Manzaneres CS

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**	
Client ID: **PBW**	Batch ID: **R85520**	RunNo: **85520**	
Prep Date:	Analysis Date: **1/31/2022**	SeqNo: **3009882**	Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201A45**
24-Feb-22

Client: Souder, Miller and Associates
Project: Enterprise Manzaneres CS

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R85520**	RunNo: **85520**
Prep Date:	Analysis Date: **1/31/2022**	SeqNo: **3009882** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		105	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130			
Surr: Dibromofluoromethane	11		10.00		111	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201A45**
24-Feb-22

Client: Souder, Miller and Associates
Project: Enterprise Manzaneres CS

Sample ID: **mb-65306** SampType: **MBLK** TestCode: **EPA Method 8270SIM**
Client ID: **PBW** Batch ID: **65306** RunNo: **85763**
Prep Date: **2/1/2022** Analysis Date: **2/10/2022** SeqNo: **3019423** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.10								
1-Methylnaphthalene	ND	0.10								
2-Methylnaphthalene	ND	0.10								
Acenaphthylene	ND	0.10								
Acenaphthene	ND	0.10								
Fluorene	ND	0.10								
Phenanthrene	ND	0.10								
Anthracene	ND	0.10								
Fluoranthene	ND	0.20								
Pyrene	ND	0.20								
Benz(a)anthracene	ND	0.10								
Chrysene	ND	0.10								
Benzo(b)fluoranthene	ND	0.10								
Benzo(k)fluoranthene	ND	0.10								
Benzo(a)pyrene	ND	0.070								
Dibenz(a,h)anthracene	ND	0.10								
Benzo(g,h,i)perylene	ND	0.10								
Indeno(1,2,3-cd)pyrene	ND	0.30								
Surr: Nitrobenzene-d5	2.4		4.000		59.0	21.9	89.8			
Surr: 2,4,6-Tribromophenol	4.9		8.000		61.0	23.4	71.6			
Surr: 2-Fluorobiphenyl	1.9		4.000		46.5	15	84.5			
Surr: 4-Terphenyl-d14	3.4		4.000		86.0	73.1	152			

Sample ID: **lcs-65306** SampType: **LCS** TestCode: **EPA Method 8270SIM**
Client ID: **LCSW** Batch ID: **65306** RunNo: **85763**
Prep Date: **2/1/2022** Analysis Date: **2/10/2022** SeqNo: **3019424** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	1.0	0.10	2.000	0	50.0	26.5	90.9			
1-Methylnaphthalene	1.0	0.10	2.000	0	52.0	27.9	88.2			
2-Methylnaphthalene	1.0	0.10	2.000	0	52.0	29.2	87.5			
Acenaphthylene	1.3	0.10	2.000	0	64.0	30	92.9			
Acenaphthene	1.1	0.10	2.000	0	55.0	25.6	93.9			
Fluorene	1.2	0.10	2.000	0	62.0	27.4	95.1			
Phenanthrene	1.3	0.10	2.000	0	66.0	25.1	104			
Anthracene	1.5	0.10	2.000	0	74.0	30.1	100			
Fluoranthene	2.0	0.20	2.000	0	101	41.6	126			
Pyrene	1.8	0.20	2.000	0	92.0	34.5	112			
Benz(a)anthracene	2.6	0.10	2.000	0	130	43.9	132			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201A45**
24-Feb-22

Client: Souder, Miller and Associates
Project: Enterprise Manzaneres CS

Sample ID: **lcs-65306** SampType: **LCS** TestCode: **EPA Method 8270SIM**
Client ID: **LCSW** Batch ID: **65306** RunNo: **85763**
Prep Date: **2/1/2022** Analysis Date: **2/10/2022** SeqNo: **3019424** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chrysene	1.8	0.10	2.000	0	88.0	39.8	118			
Benzo(b)fluoranthene	2.3	0.10	2.000	0	113	37.2	134			
Benzo(k)fluoranthene	2.0	0.10	2.000	0	98.0	43.8	122			
Benzo(a)pyrene	2.3	0.070	2.000	0	113	36.6	122			
Dibenz(a,h)anthracene	2.2	0.10	2.000	0	112	35.5	129			
Benzo(g,h,i)perylene	2.0	0.10	2.000	0	102	39.4	120			
Indeno(1,2,3-cd)pyrene	2.6	0.30	2.000	0	132	24.9	150			
Surr: Nitrobenzene-d5	3.9		5.000		77.6	21.9	89.8			
Surr: 2,4,6-Tribromophenol	8.1		10.00		80.8	23.4	71.6			S
Surr: 2-Fluorobiphenyl	2.9		5.000		58.8	15	84.5			
Surr: 4-Terphenyl-d14	6.0		5.000		121	73.1	152			

Sample ID: **lcsd-65306** SampType: **LCSD** TestCode: **EPA Method 8270SIM**
Client ID: **LCSS02** Batch ID: **65306** RunNo: **85763**
Prep Date: **2/1/2022** Analysis Date: **2/10/2022** SeqNo: **3019425** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	1.1	0.10	2.000	0	56.0	26.5	90.9	11.3	37.6	
1-Methylnaphthalene	1.1	0.10	2.000	0	57.0	27.9	88.2	9.17	33.1	
2-Methylnaphthalene	1.2	0.10	2.000	0	58.0	29.2	87.5	10.9	35.4	
Acenaphthylene	1.3	0.10	2.000	0	67.0	30	92.9	4.58	31.7	
Acenaphthene	1.2	0.10	2.000	0	61.0	25.6	93.9	10.3	36.3	
Fluorene	1.3	0.10	2.000	0	65.0	27.4	95.1	4.72	32.2	
Phenanthrene	1.3	0.10	2.000	0	67.0	25.1	104	1.50	32.9	
Anthracene	1.4	0.10	2.000	0	70.0	30.1	100	5.56	31.5	
Fluoranthene	1.9	0.20	2.000	0	93.0	41.6	126	8.25	26.5	
Pyrene	1.8	0.20	2.000	0	90.0	34.5	112	2.20	23.3	
Benz(a)anthracene	2.2	0.10	2.000	0	112	43.9	132	14.9	29.5	
Chrysene	1.8	0.10	2.000	0	91.0	39.8	118	3.35	22.3	
Benzo(b)fluoranthene	2.2	0.10	2.000	0	108	37.2	134	4.52	25.2	
Benzo(k)fluoranthene	1.9	0.10	2.000	0	97.0	43.8	122	1.03	23.1	
Benzo(a)pyrene	2.1	0.070	2.000	0	106	36.6	122	6.39	22.4	
Dibenz(a,h)anthracene	2.2	0.10	2.000	0	109	35.5	129	2.71	23.7	
Benzo(g,h,i)perylene	2.0	0.10	2.000	0	102	39.4	120	0	22.9	
Indeno(1,2,3-cd)pyrene	2.5	0.30	2.000	0	124	24.9	150	6.25	26.6	
Surr: Nitrobenzene-d5	4.0		5.000		79.2	21.9	89.8	0	0	
Surr: 2,4,6-Tribromophenol	6.9		10.00		69.2	23.4	71.6	0	0	
Surr: 2-Fluorobiphenyl	3.4		5.000		67.2	15	84.5	0	0	
Surr: 4-Terphenyl-d14	6.0		5.000		121	73.1	152	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2201A45**

24-Feb-22

Client: Souder, Miller and Associates

Project: Enterprise Manzaneres CS

Sample ID: **MB-65535**	SampType: **MBLK**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **PBW**	Batch ID: **65535**	RunNo: **85827**
Prep Date: **2/14/2022**	Analysis Date: **2/15/2022**	SeqNo: **3022443** Units: **mg/L**

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

Sample ID: **LCSLL-65535**	SampType: **LCSLL**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **BatchQC**	Batch ID: **65535**	RunNo: **85827**
Prep Date: **2/14/2022**	Analysis Date: **2/15/2022**	SeqNo: **3022444** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020	0.0001500	0	119	50	150			

Sample ID: **LCS-65535**	SampType: **LCS**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **LCSW**	Batch ID: **65535**	RunNo: **85827**
Prep Date: **2/14/2022**	Analysis Date: **2/15/2022**	SeqNo: **3022445** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0050	0.00020	0.005000	0	99.9	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201A45**
24-Feb-22

Client: Souder, Miller and Associates
Project: Enterprise Manzaneres CS

Sample ID: **MB-65251**	SampType: **MBLK**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW**	Batch ID: **65251**	RunNo: **85585**
Prep Date: **1/27/2022**	Analysis Date: **2/1/2022**	SeqNo: **3012820** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Silver	ND	0.0050								

Sample ID: **LCS-65251**	SampType: **LCS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW**	Batch ID: **65251**	RunNo: **85585**
Prep Date: **1/27/2022**	Analysis Date: **2/1/2022**	SeqNo: **3012822** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.50	0.0020	0.5000	0	100	80	120			
Cadmium	0.51	0.0020	0.5000	0	102	80	120			
Chromium	0.50	0.0060	0.5000	0	100	80	120			
Silver	0.10	0.0050	0.1000	0	100	80	120			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 2201A45

RcptNo: 1

Received By: Cheyenne Cason 1/27/2022 8:00:00 AM

Completed By: Sean Livingston 1/27/2022 8:59:25 AM

Reviewed By: JA 1/27/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

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

# of preserved bottles checked for pH: (1) (2) (<2 or >12 unless noted)

Adjusted? NO

Checked by: CMC 1/27/22

Special Handling (if applicable)

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

Person Notified: Date:

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

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.9	Good	Yes			
2	-0.9	Good	Yes			

Released to Imaging: 10/2/2023 4:00:31 PM
Received by OCD: 10/2/2023 3:49:18 PM

Chain-of-Custody Record

Client: Souder, Miller & Associates

401 West Broadway

Mailing Address: Farmington, NM 87401

Phone #: (505) 325-7535

email or Fax#: Ashley.Maxwell@soderamiller.com

QA/QC Package: tjlong@eprod.com

☑ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☑ Standard ☐ Rush

Project Name: Enterprise Manzaneres CS

Project #:

Project Manager: Ashley Maxwell

Sampler: Heather Woods

On Ice: ☑ Yes ☐ No

# of Coolers: 2 1.9 - 0 = 1.9

Cooler Temp(including CF): -0.9 - 0 = -0.9 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2201A45	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA) Full List	8270 (Semi-VOA)	Total Coliform (Present/Absent)	PCI
1/26/22	1255	Aq	Non-Exempt Tank	(1) 1L Amber	Non	001					X	X		X			X
				(3) 40mL VOA	$HgCl_2$												
				(1) 125mL Plastic	HNO_3												
				(1) 125mL Plastic	2mL acetate NaOH												
				(1) 125mL Plastic	NaOH												
				(1) 125mL Plastic	Non												

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
1/26/22	1616	Heather M. Woods	Ginette Ward		1/26/22	1616
1/26/22	1754	Ginette Ward	CMC courier		1/27/22	0800

Remarks:

*TCLP compounds at TCLP Limits

Invoice Enterprise CC Tom Long

Samples not frozen cm 1/27/22

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

October 08, 2021

Ashley Maxwell

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

RE: Enterprise Potter CS OrderNo.: 2109923

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/17/2021 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2109923**
Date Reported: **10/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Non-Exempt Tank
Project: Enterprise Potter CS
Collection Date: 9/16/2021 8:30:00 AM
Lab ID: 2109923-001 **Matrix:** AQUEOUS **Received Date:** 9/17/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 7470A: MERCURY						Analyst: **ags**	
Mercury	ND	0.020		mg/L	1	9/24/2021 10:45:07 AM	62783
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **JLF**	
Arsenic	ND	5.0		mg/L	1	9/29/2021 12:23:06 PM	62775
Barium	ND	100		mg/L	1	9/29/2021 12:23:06 PM	62775
Cadmium	ND	1.0		mg/L	1	9/29/2021 12:23:06 PM	62775
Chromium	ND	5.0		mg/L	1	9/29/2021 12:23:06 PM	62775
Lead	ND	5.0		mg/L	1	9/29/2021 2:16:41 PM	62775
Selenium	ND	1.0		mg/L	1	9/29/2021 12:23:06 PM	62775
Silver	ND	5.0		mg/L	1	9/29/2021 12:23:06 PM	62775
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **DAM**	
Acenaphthene	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Acenaphthylene	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Aniline	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Anthracene	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Azobenzene	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Benz(a)anthracene	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Benzo(a)pyrene	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Benzo(b)fluoranthene	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Benzo(g,h,i)perylene	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Benzo(k)fluoranthene	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Benzoic acid	ND	140		µg/L	1	9/24/2021 11:20:45 AM	62675
Benzyl alcohol	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Bis(2-chloroethoxy)methane	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Bis(2-chloroethyl)ether	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Bis(2-chloroisopropyl)ether	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Bis(2-ethylhexyl)phthalate	ND	71		µg/L	1	9/24/2021 11:20:45 AM	62675
4-Bromophenyl phenyl ether	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Butyl benzyl phthalate	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Carbazole	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
4-Chloro-3-methylphenol	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
4-Chloroaniline	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
2-Chloronaphthalene	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
2-Chlorophenol	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
4-Chlorophenyl phenyl ether	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Chrysene	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Di-n-butyl phthalate	ND	71		µg/L	1	9/24/2021 11:20:45 AM	62675
Di-n-octyl phthalate	ND	140		µg/L	1	9/24/2021 11:20:45 AM	62675
Dibenz(a,h)anthracene	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675

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

Qualifiers:

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

Analytical Report
Lab Order **2109923**
Date Reported: **10/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Non-Exempt Tank
Project: Enterprise Potter CS
Collection Date: 9/16/2021 8:30:00 AM
Lab ID: 2109923-001 **Matrix:** AQUEOUS **Received Date:** 9/17/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **DAM**	
Dibenzofuran	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
1,2-Dichlorobenzene	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
1,3-Dichlorobenzene	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
1,4-Dichlorobenzene	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
3,3´-Dichlorobenzidine	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Diethyl phthalate	ND	71		µg/L	1	9/24/2021 11:20:45 AM	62675
Dimethyl phthalate	ND	71		µg/L	1	9/24/2021 11:20:45 AM	62675
2,4-Dichlorophenol	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
2,4-Dimethylphenol	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
4,6-Dinitro-2-methylphenol	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
2,4-Dinitrophenol	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
2,4-Dinitrotoluene	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
2,6-Dinitrotoluene	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Fluoranthene	ND	71		µg/L	1	9/24/2021 11:20:45 AM	62675
Fluorene	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Hexachlorobenzene	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Hexachlorobutadiene	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Hexachlorocyclopentadiene	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Hexachloroethane	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Indeno(1,2,3-cd)pyrene	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Isophorone	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
1-Methylnaphthalene	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
2-Methylnaphthalene	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
2-Methylphenol	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
3+4-Methylphenol	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
N-Nitrosodi-n-propylamine	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
N-Nitrosodimethylamine	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
N-Nitrosodiphenylamine	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Naphthalene	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
2-Nitroaniline	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
3-Nitroaniline	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
4-Nitroaniline	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Nitrobenzene	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
2-Nitrophenol	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
4-Nitrophenol	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Pentachlorophenol	ND	140		µg/L	1	9/24/2021 11:20:45 AM	62675
Phenanthrene	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Phenol	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Pyrene	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
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Analytical Report
Lab Order **2109923**
Date Reported: **10/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Non-Exempt Tank
Project: Enterprise Potter CS
Collection Date: 9/16/2021 8:30:00 AM
Lab ID: 2109923-001 **Matrix:** AQUEOUS **Received Date:** 9/17/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **DAM**	
Pyridine	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
1,2,4-Trichlorobenzene	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
2,4,5-Trichlorophenol	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
2,4,6-Trichlorophenol	ND	36		µg/L	1	9/24/2021 11:20:45 AM	62675
Surr: 2-Fluorophenol	44.8	15-87		%Rec	1	9/24/2021 11:20:45 AM	62675
Surr: Phenol-d5	33.0	15-67.5		%Rec	1	9/24/2021 11:20:45 AM	62675
Surr: 2,4,6-Tribromophenol	87.6	15-122		%Rec	1	9/24/2021 11:20:45 AM	62675
Surr: Nitrobenzene-d5	52.0	15-103		%Rec	1	9/24/2021 11:20:45 AM	62675
Surr: 2-Fluorobiphenyl	56.6	15-103		%Rec	1	9/24/2021 11:20:45 AM	62675
Surr: 4-Terphenyl-d14	101	45-137		%Rec	1	9/24/2021 11:20:45 AM	62675
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.50		mg/L	200	9/23/2021 8:10:00 AM	B81470
Toluene	0.24	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
Ethylbenzene	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
Methyl tert-butyl ether (MTBE)	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
1,2,4-Trimethylbenzene	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
1,3,5-Trimethylbenzene	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
1,2-Dichloroethane (EDC)	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
1,2-Dibromoethane (EDB)	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
Naphthalene	ND	0.40		mg/L	200	9/23/2021 8:10:00 AM	B81470
1-Methylnaphthalene	ND	0.80		mg/L	200	9/23/2021 8:10:00 AM	B81470
2-Methylnaphthalene	ND	0.80		mg/L	200	9/23/2021 8:10:00 AM	B81470
Acetone	ND	2.0		mg/L	200	9/23/2021 8:10:00 AM	B81470
Bromobenzene	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
Bromodichloromethane	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
Bromoform	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
Bromomethane	ND	0.60		mg/L	200	9/23/2021 8:10:00 AM	B81470
2-Butanone	ND	2.0		mg/L	200	9/23/2021 8:10:00 AM	B81470
Carbon disulfide	ND	2.0		mg/L	200	9/23/2021 8:10:00 AM	B81470
Carbon Tetrachloride	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
Chlorobenzene	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
Chloroethane	ND	0.40		mg/L	200	9/23/2021 8:10:00 AM	B81470
Chloroform	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
Chloromethane	ND	0.60		mg/L	200	9/23/2021 8:10:00 AM	B81470
2-Chlorotoluene	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
4-Chlorotoluene	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
cis-1,2-DCE	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
cis-1,3-Dichloropropene	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
1,2-Dibromo-3-chloropropane	ND	0.40		mg/L	200	9/23/2021 8:10:00 AM	B81470

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

Qualifiers:

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

Analytical Report
Lab Order **2109923**
Date Reported: **10/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Non-Exempt Tank
Project: Enterprise Potter CS
Collection Date: 9/16/2021 8:30:00 AM
Lab ID: 2109923-001 **Matrix:** AQUEOUS **Received Date:** 9/17/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Dibromochloromethane	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
Dibromomethane	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
1,2-Dichlorobenzene	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
1,3-Dichlorobenzene	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
1,4-Dichlorobenzene	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
Dichlorodifluoromethane	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
1,1-Dichloroethane	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
1,1-Dichloroethene	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
1,2-Dichloropropane	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
1,3-Dichloropropane	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
2,2-Dichloropropane	ND	0.40		mg/L	200	9/23/2021 8:10:00 AM	B81470
1,1-Dichloropropene	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
Hexachlorobutadiene	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
2-Hexanone	ND	2.0		mg/L	200	9/23/2021 8:10:00 AM	B81470
Isopropylbenzene	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
4-Isopropyltoluene	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
4-Methyl-2-pentanone	ND	2.0		mg/L	200	9/23/2021 8:10:00 AM	B81470
Methylene Chloride	ND	0.60		mg/L	200	9/23/2021 8:10:00 AM	B81470
n-Butylbenzene	ND	0.60		mg/L	200	9/23/2021 8:10:00 AM	B81470
n-Propylbenzene	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
sec-Butylbenzene	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
Styrene	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
tert-Butylbenzene	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
1,1,1,2-Tetrachloroethane	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
1,1,2,2-Tetrachloroethane	ND	0.40		mg/L	200	9/23/2021 8:10:00 AM	B81470
Tetrachloroethene (PCE)	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
trans-1,2-DCE	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
trans-1,3-Dichloropropene	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
1,2,3-Trichlorobenzene	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
1,2,4-Trichlorobenzene	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
1,1,1-Trichloroethane	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
1,1,2-Trichloroethane	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
Trichloroethene (TCE)	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
Trichlorofluoromethane	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
1,2,3-Trichloropropane	ND	0.40		mg/L	200	9/23/2021 8:10:00 AM	B81470
Vinyl chloride	ND	0.20		mg/L	200	9/23/2021 8:10:00 AM	B81470
Xylenes, Total	ND	0.30		mg/L	200	9/23/2021 8:10:00 AM	B81470
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	200	9/23/2021 8:10:00 AM	B81470
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	200	9/23/2021 8:10:00 AM	B81470

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

Qualifiers:

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

Analytical Report
Lab Order **2109923**
Date Reported: **10/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Non-Exempt Tank
Project: Enterprise Potter CS
Collection Date: 9/16/2021 8:30:00 AM
Lab ID: 2109923-001 **Matrix:** AQUEOUS **Received Date:** 9/17/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Surr: Dibromofluoromethane	102	70-130		%Rec	200	9/23/2021 8:10:00 AM	B81470
Surr: Toluene-d8	96.9	70-130		%Rec	200	9/23/2021 8:10:00 AM	B81470

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

Qualifiers:

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

Pace Analytical®

ANALYTICAL REPORT

September 28, 2021

Hall Environmental Analysis Laboratory

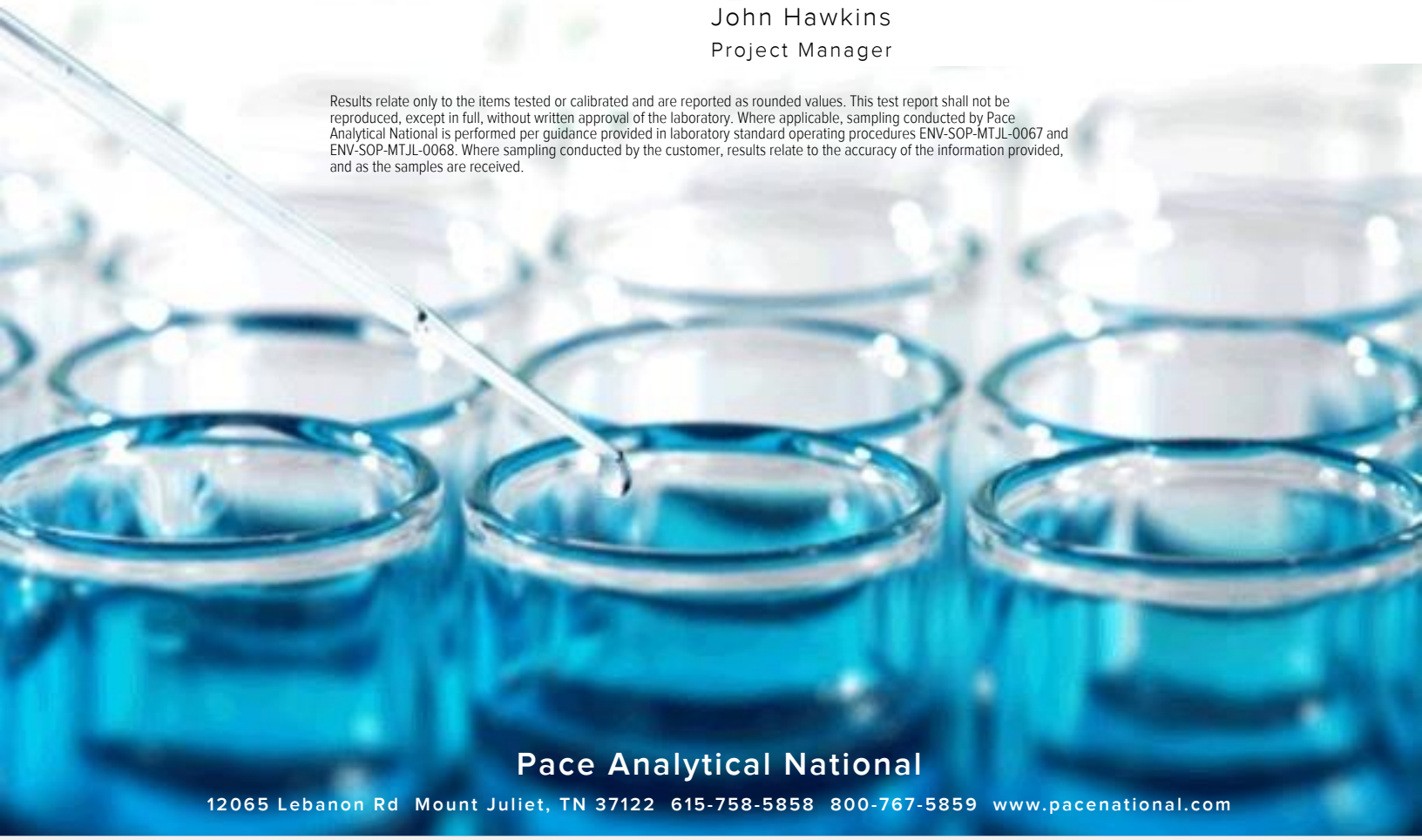
Sample Delivery Group:	L1405730
Samples Received:	09/18/2021
Project Number:	
Description:	

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

Entire Report Reviewed By: John V Hawkins

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

TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

2109923-001DEF NON-EXEMPT TANK L1405730-01 5

Qc: Quality Control Summary 6

Wet Chemistry by Method 4500 CN E-2011 6

Wet Chemistry by Method 4500 S2 D-2011 7

Wet Chemistry by Method 9040C 8

Wet Chemistry by Method D93/1010A 9

Gl: Glossary of Terms 10

Al: Accreditations & Locations 11

Sc: Sample Chain of Custody 12

SAMPLE SUMMARY

2109923-001DEF NON-EXEMPT TANK L1405730-01 GW

Collected by	Collected date/time	Received date/time
	09/16/21 08:30	09/18/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 4500 CN E-2011	WG1746281	1	09/26/21 12:12	09/27/21 13:39	KEG	Mt. Juliet, TN
Wet Chemistry by Method 4500 S2 D-2011	WG1743918	1	09/21/21 18:25	09/21/21 18:25	BFG	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG1746904	.2	09/28/21 05:11	09/28/21 05:11	ARD	Mt. Juliet, TN
Wet Chemistry by Method D93/1010A	WG1742750	1	09/20/21 02:13	09/20/21 02:13	WOS	Mt. Juliet, TN

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

John Hawkins
Project Manager

Project Narrative

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

Wet Chemistry by Method 4500 CN E-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Reactive Cyanide	ND		0.00500	1	09/27/2021 13:39	WG1746281

Wet Chemistry by Method 4500 S2 D-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Reactive Sulfide	ND		0.0500	1	09/21/2021 18:25	WG1743918

Wet Chemistry by Method 9040C

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
Corrosivity by pH	6.81	T8	.2	09/28/2021 05:11	WG1746904

Sample Narrative:

L1405730-01 WG1746904: 6.81 at 20.2C

Wet Chemistry by Method D93/1010A

Analyte	Result deg F	Qualifier	Dilution	Analysis date / time	Batch
Flashpoint	DNF at 170		1	09/20/2021 02:13	WG1742750

Method Blank (MB)

(MB) R3709106-1 09/27/21 13:32

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

L1404353-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1404353-02 09/27/21 13:36 • (DUP) R3709106-3 09/27/21 13:37

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

L1405754-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1405754-02 09/27/21 13:45 • (DUP) R3709106-6 09/27/21 13:46

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

Laboratory Control Sample (LCS)

(LCS) R3709106-2 09/27/21 13:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Cyanide	0.200	0.195	97.5	87.1-120	

L1405754-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1405754-01 09/27/21 13:40 • (MS) R3709106-4 09/27/21 13:41 • (MSD) R3709106-5 09/27/21 13:44

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	ND	0.0990	0.100	96.5	97.5	1	90.0-110			1.01	20

L1405784-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1405784-01 09/27/21 13:48 • (MS) R3709106-7 09/27/21 13:49 • (MSD) R3709106-8 09/27/21 13:50

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	ND	0.101	0.103	101	103	1	90.0-110			1.96	20

Method Blank (MB)

(MB) R3707020-1 09/21/21 18:15

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

Laboratory Control Sample (LCS)

(LCS) R3707020-2 09/21/21 18:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Sulfide	0.500	0.497	99.4	85.0-115	

L1405730-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1405730-01 09/21/21 18:25 • (MS) R3707020-4 09/21/21 18:26 • (MSD) R3707020-5 09/21/21 18:27

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Sulfide	1.00	ND	0.980	0.971	96.6	95.7	1	80.0-120			0.923	20

L1405730-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1405730-01 09/28/21 05:11 • (DUP) R3709384-2 09/28/21 05:16

Analyte	Original Result su	DUP Result su	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Corrosivity by pH	6.81	6.81	.2	0.000		1

Sample Narrative:
OS: 6.81 at 20.2C
DUP: 6.81 at 20C

L1405765-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1405765-01 09/28/21 05:31 • (DUP) R3709384-3 09/28/21 05:37

Analyte	Original Result su	DUP Result su	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Corrosivity by pH	8.06	8.07	.2	0.124		1

Sample Narrative:
OS: 8.06 at 19.9C
DUP: 8.07 at 20.1C

Laboratory Control Sample (LCS)

(LCS) R3709384-1 09/28/21 04:21

Analyte	Spike Amount su	LCS Result su	LCS Rec. %	Rec. Limits %	LCS Qualifier
Corrosivity by pH	10.0	9.95	99.5	99.0-101	

Sample Narrative:
LCS: 9.94 at 20.1C

L1405375-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1405375-01 09/20/21 02:13 • (DUP) R3706102-3 09/20/21 02:13

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

L1405730-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1405730-01 09/20/21 02:13 • (DUP) R3706102-4 09/20/21 02:13

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

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

(LCS) R3706102-1 09/20/21 02:13 • (LCSD) R3706102-2 09/20/21 02:13

Analyte	Spike Amount deg F	LCS Result deg F	LCSD Result deg F	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Flashpoint	126	125	128	99.0	101	96.0-104			2.38	10

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

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

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

Received by OCD: 10/2/2023 3:49:18 PM

ENVIRONMENTAL ANALYSIS LABORATORY

CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

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

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

L1405730

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	2,1,2 PRV ANALYTICAL COMMENTS
1	2109923-001D	Non-Exempt Tank	500HDPE	Aqueous	9/16/2021 8:30:00 AM	1	RCI
2	2109923-001E	Non-Exempt Tank	500PLNAOH ZNAC	Aqueous	9/16/2021 8:30:00 AM	1	RCI
3	2109923-001F	Non-Exempt Tank	500PL-NaOH	Aqueous	9/16/2021 8:30:00 AM	1	RCI

7-01

C076

Sample Receipt Checklist

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

D260
0.4+0=0.4
COC SI

SPECIAL INSTRUCTIONS / COMMENTS:

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

Relinquished By:	Date: 9/17/2021	Time: 2:25 PM	Received By:	Date: 9/18/21	Time: 0945
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

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

REPORT TRANSMITTAL DESIRED:

☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY

Temp of samples _____ °C Attempt to Cool ? _____

Comments: _____

Released to Imaging: 10/2/2023 4:00:31 PM

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2109923**
08-Oct-21

Client: Souder, Miller and Associates
Project: Enterprise Potter CS

Sample ID: **100ng 8260 lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **B81470**	RunNo: **81470**
Prep Date:	Analysis Date: **9/23/2021**	SeqNo: **2879190** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	19	1.0	20.00	0	94.6	70	130			
Chlorobenzene	19	1.0	20.00	0	95.3	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	94.3	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	94.0	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		105	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	9.7		10.00		97.0	70	130			

Sample ID: **mb2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **B81470**	RunNo: **81470**
Prep Date:	Analysis Date: **9/23/2021**	SeqNo: **2879191** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2109923**
08-Oct-21

Client: Souder, Miller and Associates
Project: Enterprise Potter CS

Sample ID: **mb2** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **B81470** RunNo: **81470**
Prep Date: Analysis Date: **9/23/2021** SeqNo: **2879191** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

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D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of 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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2109923**
08-Oct-21

Client: Souder, Miller and Associates
Project: Enterprise Potter CS

Sample ID: **mb2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **B81470**	RunNo: **81470**
Prep Date:	Analysis Date: **9/23/2021**	SeqNo: **2879191** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	9.6		10.00		96.2	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2109923**
08-Oct-21

Client: Souder, Miller and Associates
Project: Enterprise Potter CS

Sample ID: **mb-62675** SampType: **MBLK** TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBW** Batch ID: **62675** RunNo: **81532**
Prep Date: **9/20/2021** Analysis Date: **9/23/2021** SeqNo: **2880849** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	5.0								
Acenaphthylene	ND	5.0								
Aniline	ND	5.0								
Anthracene	ND	5.0								
Azobenzene	ND	5.0								
Benz(a)anthracene	ND	5.0								
Benzo(a)pyrene	ND	5.0								
Benzo(b)fluoranthene	ND	5.0								
Benzo(g,h,i)perylene	ND	5.0								
Benzo(k)fluoranthene	ND	5.0								
Benzoic acid	ND	20								
Benzyl alcohol	ND	5.0								
Bis(2-chloroethoxy)methane	ND	5.0								
Bis(2-chloroethyl)ether	ND	5.0								
Bis(2-chloroisopropyl)ether	ND	5.0								
Bis(2-ethylhexyl)phthalate	ND	10								
4-Bromophenyl phenyl ether	ND	5.0								
Butyl benzyl phthalate	ND	5.0								
Carbazole	ND	5.0								
4-Chloro-3-methylphenol	ND	5.0								
4-Chloroaniline	ND	5.0								
2-Chloronaphthalene	ND	5.0								
2-Chlorophenol	ND	5.0								
4-Chlorophenyl phenyl ether	ND	5.0								
Chrysene	ND	5.0								
Di-n-butyl phthalate	ND	10								
Di-n-octyl phthalate	ND	20								
Dibenz(a,h)anthracene	ND	5.0								
Dibenzofuran	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
3,3´-Dichlorobenzidine	ND	5.0								
Diethyl phthalate	ND	10								
Dimethyl phthalate	ND	10								
2,4-Dichlorophenol	ND	5.0								
2,4-Dimethylphenol	ND	5.0								
4,6-Dinitro-2-methylphenol	ND	5.0								
2,4-Dinitrophenol	ND	5.0								

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2109923**
08-Oct-21

Client: Souder, Miller and Associates
Project: Enterprise Potter CS

Sample ID: **mb-62675** SampType: **MBLK** TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBW** Batch ID: **62675** RunNo: **81532**
Prep Date: **9/20/2021** Analysis Date: **9/23/2021** SeqNo: **2880849** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-Dinitrotoluene	ND	5.0								
2,6-Dinitrotoluene	ND	5.0								
Fluoranthene	ND	10								
Fluorene	ND	5.0								
Hexachlorobenzene	ND	5.0								
Hexachlorobutadiene	ND	5.0								
Hexachlorocyclopentadiene	ND	5.0								
Hexachloroethane	ND	5.0								
Indeno(1,2,3-cd)pyrene	ND	5.0								
Isophorone	ND	5.0								
1-Methylnaphthalene	ND	5.0								
2-Methylnaphthalene	ND	5.0								
2-Methylphenol	ND	5.0								
3+4-Methylphenol	ND	5.0								
N-Nitrosodi-n-propylamine	ND	5.0								
N-Nitrosodimethylamine	ND	5.0								
N-Nitrosodiphenylamine	ND	5.0								
Naphthalene	ND	5.0								
2-Nitroaniline	ND	5.0								
3-Nitroaniline	ND	5.0								
4-Nitroaniline	ND	5.0								
Nitrobenzene	ND	5.0								
2-Nitrophenol	ND	5.0								
4-Nitrophenol	ND	5.0								
Pentachlorophenol	ND	20								
Phenanthrene	ND	5.0								
Phenol	ND	5.0								
Pyrene	ND	5.0								
Pyridine	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
2,4,5-Trichlorophenol	ND	5.0								
2,4,6-Trichlorophenol	ND	5.0								
Surr: 2-Fluorophenol	88		200.0		44.2	15	87			
Surr: Phenol-d5	69		200.0		34.3	15	67.5			
Surr: 2,4,6-Tribromophenol	100		200.0		50.0	15	122			
Surr: Nitrobenzene-d5	49		100.0		49.1	15	103			
Surr: 2-Fluorobiphenyl	49		100.0		49.1	15	103			
Surr: 4-Terphenyl-d14	98		100.0		98.2	45	137			

Qualifiers:

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D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of 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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2109923**
08-Oct-21

Client: Souder, Miller and Associates
Project: Enterprise Potter CS

Sample ID: **lcs-62675** SampType: **LCS** TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSW** Batch ID: **62675** RunNo: **81532**
Prep Date: **9/20/2021** Analysis Date: **9/23/2021** SeqNo: **2880850** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	68	5.0	100.0	0	68.3	28	101			
4-Chloro-3-methylphenol	140	5.0	200.0	0	71.9	28.3	103			
2-Chlorophenol	140	5.0	200.0	0	71.0	29.3	105			
1,4-Dichlorobenzene	61	5.0	100.0	0	60.6	15	87.6			
2,4-Dinitrotoluene	65	5.0	100.0	0	64.8	23.6	90.9			
N-Nitrosodi-n-propylamine	70	5.0	100.0	0	69.6	23.1	94.6			
4-Nitrophenol	110	5.0	200.0	0	53.1	15	77			
Pentachlorophenol	140	20	200.0	0	67.6	21	111			
Phenol	83	5.0	200.0	0	41.5	16.8	70.5			
Pyrene	93	5.0	100.0	0	93.4	30.5	129			
1,2,4-Trichlorobenzene	58	5.0	100.0	0	57.9	15	88.2			
Surr: 2-Fluorophenol	94		200.0		47.2	15	84.2			
Surr: Phenol-d5	74		200.0		37.1	15	67.5			
Surr: 2,4,6-Tribromophenol	140		200.0		70.3	15	115			
Surr: Nitrobenzene-d5	58		100.0		58.3	15	103			
Surr: 2-Fluorobiphenyl	62		100.0		61.6	15	105			
Surr: 4-Terphenyl-d14	110		100.0		106	42.3	137			

Sample ID: **lcsd-62675** SampType: **LCSD** TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS02** Batch ID: **62675** RunNo: **81532**
Prep Date: **9/20/2021** Analysis Date: **9/23/2021** SeqNo: **2880851** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	63	5.0	100.0	0	62.6	28	101	8.69	41.2	
4-Chloro-3-methylphenol	130	5.0	200.0	0	62.5	28.3	103	14.0	44.7	
2-Chlorophenol	100	5.0	200.0	0	51.9	29.3	105	31.0	35.6	
1,4-Dichlorobenzene	53	5.0	100.0	0	53.2	15	87.6	13.0	30.4	
2,4-Dinitrotoluene	58	5.0	100.0	0	58.3	23.6	90.9	10.5	53.1	
N-Nitrosodi-n-propylamine	59	5.0	100.0	0	59.4	23.1	94.6	15.7	31.1	
4-Nitrophenol	36	5.0	200.0	0	17.8	15	77	99.5	52.4	R
Pentachlorophenol	54	20	200.0	0	26.9	21	111	86.2	71.6	R
Phenol	71	5.0	200.0	0	35.4	16.8	70.5	16.0	37.2	
Pyrene	110	5.0	100.0	0	106	30.5	129	12.4	51.3	
1,2,4-Trichlorobenzene	54	5.0	100.0	0	54.2	15	88.2	6.59	31.8	
Surr: 2-Fluorophenol	51		200.0		25.3	15	87	0	0	
Surr: Phenol-d5	59		200.0		29.5	15	67.5	0	0	
Surr: 2,4,6-Tribromophenol	61		200.0		30.7	15	122	0	0	
Surr: Nitrobenzene-d5	48		100.0		48.2	15	103	0	0	
Surr: 2-Fluorobiphenyl	51		100.0		50.8	15	103	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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2109923**
08-Oct-21

Client: Souder, Miller and Associates
Project: Enterprise Potter CS

Sample ID: **lcsd-62675** SampType: **LCSD** TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS02** Batch ID: **62675** RunNo: **81532**
Prep Date: **9/20/2021** Analysis Date: **9/23/2021** SeqNo: **2880851** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	110		100.0		115	45	137	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2109923**

08-Oct-21

Client: Souder, Miller and Associates

Project: Enterprise Potter CS

Sample ID: **MB-62783**	SampType: **MBLK**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **PBW**	Batch ID: **62783**	RunNo: **81549**
Prep Date: **9/23/2021**	Analysis Date: **9/24/2021**	SeqNo: **2881593** Units: **mg/L**

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

Sample ID: **LLLCS-62783**	SampType: **LCSLL**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **BatchQC**	Batch ID: **62783**	RunNo: **81549**
Prep Date: **9/23/2021**	Analysis Date: **9/24/2021**	SeqNo: **2881594** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020	0.0001500	0	69.7	50	150			

Sample ID: **LCS-62783**	SampType: **LCS**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **LCSW**	Batch ID: **62783**	RunNo: **81549**
Prep Date: **9/23/2021**	Analysis Date: **9/24/2021**	SeqNo: **2881595** 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	98.1	85	115			

Qualifiers:

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D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of 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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2109923**
08-Oct-21

Client: Souder, Miller and Associates
Project: Enterprise Potter CS

Sample ID: **MB-62775** SampType: **MBLK** TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW** Batch ID: **62775** RunNo: **81672**
Prep Date: **9/22/2021** Analysis Date: **9/29/2021** SeqNo: **2886576** Units: **mg/L**

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

Sample ID: **LCS-62775** SampType: **LCS** TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW** Batch ID: **62775** RunNo: **81672**
Prep Date: **9/22/2021** Analysis Date: **9/29/2021** SeqNo: **2886578** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.47	0.030	0.5000	0	94.7	80	120			
Barium	0.47	0.0020	0.5000	0	94.1	80	120			
Cadmium	0.48	0.0020	0.5000	0	95.6	80	120			
Chromium	0.47	0.0060	0.5000	0	94.4	80	120			
Selenium	0.46	0.050	0.5000	0	91.3	80	120			
Silver	0.094	0.0050	0.1000	0	94.4	80	120			

Sample ID: **2109923-001CMS** SampType: **MS** TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **Non-Exempt Tank** Batch ID: **62775** RunNo: **81672**
Prep Date: **9/22/2021** Analysis Date: **9/29/2021** SeqNo: **2886585** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.43	0.030	0.5000	0	86.4	75	125			
Barium	0.47	0.0020	0.5000	0.05575	83.8	75	125			
Cadmium	0.44	0.0020	0.5000	0.006017	86.6	75	125			
Chromium	0.42	0.0060	0.5000	0	84.4	75	125			
Selenium	0.41	0.050	0.5000	0	81.5	75	125			
Silver	0.086	0.0050	0.1000	0	86.0	75	125			

Sample ID: **2109923-001CMSD** SampType: **MSD** TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **Non-Exempt Tank** Batch ID: **62775** RunNo: **81672**
Prep Date: **9/22/2021** Analysis Date: **9/29/2021** SeqNo: **2886589** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.47	0.030	0.5000	0	94.8	75	125	9.24	20	
Barium	0.52	0.0020	0.5000	0.05575	92.2	75	125	8.39	20	
Cadmium	0.48	0.0020	0.5000	0.006017	94.8	75	125	8.93	20	
Chromium	0.46	0.0060	0.5000	0	92.9	75	125	9.60	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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2109923**
08-Oct-21

Client: Souder, Miller and Associates
Project: Enterprise Potter CS

Sample ID: **2109923-001CMSD** SampType: **MSD** TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **Non-Exempt Tank** Batch ID: **62775** RunNo: **81672**
Prep Date: **9/22/2021** Analysis Date: **9/29/2021** SeqNo: **2886589** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.44	0.050	0.5000	0	87.2	75	125	6.72	20	
Silver	0.092	0.0050	0.1000	0	91.9	75	125	6.67	20	

Sample ID: **MB-62775** SampType: **MBLK** TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW** Batch ID: **62775** RunNo: **81672**
Prep Date: **9/22/2021** Analysis Date: **9/29/2021** SeqNo: **2886610** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	ND	0.020								

Sample ID: **LCS-62775** SampType: **LCS** TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW** Batch ID: **62775** RunNo: **81672**
Prep Date: **9/22/2021** Analysis Date: **9/29/2021** SeqNo: **2886612** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.49	0.020	0.5000	0	98.0	80	120			

Sample ID: **2109923-001CMS** SampType: **MS** TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **Non-Exempt Tank** Batch ID: **62775** RunNo: **81672**
Prep Date: **9/22/2021** Analysis Date: **9/29/2021** SeqNo: **2886619** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.50	0.020	0.5000	0	99.5	75	125			

Sample ID: **2109923-001CMSD** SampType: **MSD** TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **Non-Exempt Tank** Batch ID: **62775** RunNo: **81672**
Prep Date: **9/22/2021** Analysis Date: **9/29/2021** SeqNo: **2886622** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.48	0.020	0.5000	0	96.9	75	125	9.87	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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: **2109923** RcptNo: **1**

Received By: **Cheyenne Cason** **9/17/2021 7:30:00 AM** Cheyenne Cason

Completed By: **Sean Livingston** **9/17/2021 11:39:11 AM** Sean Livingston

Reviewed By: JRA 9/17/21

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

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

# of preserved bottles checked for pH: 3 *
(<2 or >12 unless noted)
Adjusted? NO

Checked by: JO 9.17.21

Special Handling (if applicable)

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

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

16. Additional remarks: * R.S. not at pH.

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.3	Good				
2	4.0	Good				

Released to Imaging: 10/2/2023 4:00:31 PM
Received by OCD: 10/2/2023 3:49:18 PM

Chain-of-Custody Record

Client: Souder, Miller & Associates

Mailing Address: 401 W. Broadway
Farmington, NM 87401

Phone #: (505) 325-7535

email or Fax#: Ashley.Maxwell@soudermiller.com
tjlong@eprod.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Enterprise Potter CS

Project #:

Project Manager: Ashley Maxwell

Sampler: Heather Woods

On Ice: ☒ Yes ☐ No

# of Coolers: 2 2.3-0=2.3

Cooler Temp (including CF): 4.0-0=4.0 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 209923	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals TCLP	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	RCI
9/14/21	0830	Aq	Non-Exempt Tank	(1) L Amber	Non	001						X		X	X		X
				(3) 40mL VOA	$HgCl_2$												
				(1) 125mL Plastic	HNO_3												
				(1) 125mL Plastic	Zinc acetate NaOH												
				(1) 125mL Plastic	NaOH												
				(1) 125mL Plastic	Non												

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
9/14/21	1724	Heather M. Woods	Christa Waters		9/14/21	1724
9/14/21	1900	Christa Waters	CHE courier		9/17/21	0730

Remarks:
TCLP Compounds @ TCLP Limits
Invoice Enterprise cc Tom Long

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

Appendix D

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

November 22, 2021

Ashley Maxwell

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

RE: Ballard OrderNo.: 2111049

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/2/2021 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2111049**
Date Reported: **11/22/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Ballard Non Exempt
Project: Ballard
Collection Date: 10/29/2021 1:40:00 PM
Lab ID: 2111049-001 **Matrix:** AQUEOUS **Received Date:** 11/2/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 245.1: MERCURY						Analyst: **VP**	
Mercury	ND	0.020		mg/L	1	11/16/2021 3:20:22 PM	63964
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **JLF**	
Arsenic	ND	5.0		mg/L	1	11/15/2021 6:32:04 PM	63850
Barium	ND	100		mg/L	1	11/10/2021 3:20:41 PM	63850
Cadmium	ND	1.0		mg/L	1	11/10/2021 3:20:41 PM	63850
Chromium	ND	5.0		mg/L	1	11/12/2021 8:10:46 PM	63850
Lead	ND	5.0		mg/L	1	11/12/2021 8:10:46 PM	63850
Selenium	ND	1.0		mg/L	1	11/12/2021 8:10:46 PM	63850
Silver	ND	5.0		mg/L	1	11/12/2021 8:10:46 PM	63850
EPA METHOD 8270SIM						Analyst: **TOM**	
Naphthalene	ND	10	D	µg/L	10	11/9/2021 5:21:00 PM	63787
1-Methylnaphthalene	12	10	D	µg/L	10	11/9/2021 5:21:00 PM	63787
2-Methylnaphthalene	16	10	D	µg/L	10	11/9/2021 5:21:00 PM	63787
Acenaphthylene	ND	10	D	µg/L	10	11/9/2021 5:21:00 PM	63787
Acenaphthene	ND	10	D	µg/L	10	11/9/2021 5:21:00 PM	63787
Fluorene	ND	10	D	µg/L	10	11/9/2021 5:21:00 PM	63787
Phenanthrene	ND	10	D	µg/L	10	11/9/2021 5:21:00 PM	63787
Anthracene	ND	10	D	µg/L	10	11/9/2021 5:21:00 PM	63787
Fluoranthene	ND	20	D	µg/L	10	11/9/2021 5:21:00 PM	63787
Pyrene	ND	20	D	µg/L	10	11/9/2021 5:21:00 PM	63787
Benz(a)anthracene	ND	10	D	µg/L	10	11/9/2021 5:21:00 PM	63787
Chrysene	ND	10	D	µg/L	10	11/9/2021 5:21:00 PM	63787
Benzo(b)fluoranthene	ND	10	D	µg/L	10	11/9/2021 5:21:00 PM	63787
Benzo(k)fluoranthene	ND	10	D	µg/L	10	11/9/2021 5:21:00 PM	63787
Benzo(a)pyrene	ND	7.0	D	µg/L	10	11/9/2021 5:21:00 PM	63787
Dibenz(a,h)anthracene	ND	10	D	µg/L	10	11/9/2021 5:21:00 PM	63787
Benzo(g,h,i)perylene	ND	10	D	µg/L	10	11/9/2021 5:21:00 PM	63787
Indeno(1,2,3-cd)pyrene	ND	30	D	µg/L	10	11/9/2021 5:21:00 PM	63787
Surr: Nitrobenzene-d5	0	21.9-89.8	SD	%Rec	10	11/9/2021 5:21:00 PM	63787
Surr: 2-Fluorobiphenyl	0	15-84.5	SD	%Rec	10	11/9/2021 5:21:00 PM	63787
Surr: 4-Terphenyl-d14	0	73.1-152	SD	%Rec	10	11/9/2021 5:21:00 PM	63787
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.50	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
Toluene	0.58	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
Ethylbenzene	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
Methyl tert-butyl ether (MTBE)	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
1,2,4-Trimethylbenzene	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
1,3,5-Trimethylbenzene	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630

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

Qualifiers:

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

Analytical Report
Lab Order **2111049**
Date Reported: **11/22/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Ballard Non Exempt
Project: Ballard
Collection Date: 10/29/2021 1:40:00 PM
Lab ID: 2111049-001 **Matrix:** AQUEOUS **Received Date:** 11/2/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
1,2-Dichloroethane (EDC)	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
1,2-Dibromoethane (EDB)	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
Naphthalene	ND	0.40	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
1-Methylnaphthalene	ND	0.80	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
2-Methylnaphthalene	ND	0.80	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
Acetone	ND	2.0	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
Bromobenzene	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
Bromodichloromethane	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
Bromoform	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
Bromomethane	ND	0.60	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
2-Butanone	ND	2.0	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
Carbon disulfide	ND	2.0	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
Carbon Tetrachloride	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
Chlorobenzene	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
Chloroethane	ND	0.40	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
Chloroform	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
Chloromethane	ND	0.60	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
2-Chlorotoluene	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
4-Chlorotoluene	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
cis-1,2-DCE	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
cis-1,3-Dichloropropene	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
1,2-Dibromo-3-chloropropane	ND	0.40	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
Dibromochloromethane	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
Dibromomethane	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
1,2-Dichlorobenzene	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
1,3-Dichlorobenzene	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
1,4-Dichlorobenzene	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
Dichlorodifluoromethane	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
1,1-Dichloroethane	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
1,1-Dichloroethene	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
1,2-Dichloropropane	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
1,3-Dichloropropane	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
2,2-Dichloropropane	ND	0.40	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
1,1-Dichloropropene	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
Hexachlorobutadiene	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
2-Hexanone	ND	2.0	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
Isopropylbenzene	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
4-Isopropyltoluene	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
4-Methyl-2-pentanone	ND	2.0	P	mg/L	200	11/5/2021 7:47:00 PM	R82630

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

Qualifiers:

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

Analytical Report
Lab Order **2111049**
Date Reported: **11/22/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Ballard Non Exempt
Project: Ballard
Collection Date: 10/29/2021 1:40:00 PM
Lab ID: 2111049-001 **Matrix:** AQUEOUS **Received Date:** 11/2/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Methylene Chloride	ND	0.60	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
n-Butylbenzene	ND	0.60	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
n-Propylbenzene	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
sec-Butylbenzene	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
Styrene	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
tert-Butylbenzene	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
1,1,1,2-Tetrachloroethane	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
1,1,2,2-Tetrachloroethane	ND	0.40	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
Tetrachloroethene (PCE)	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
trans-1,2-DCE	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
trans-1,3-Dichloropropene	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
1,2,3-Trichlorobenzene	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
1,2,4-Trichlorobenzene	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
1,1,1-Trichloroethane	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
1,1,2-Trichloroethane	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
Trichloroethene (TCE)	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
Trichlorofluoromethane	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
1,2,3-Trichloropropane	ND	0.40	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
Vinyl chloride	ND	0.20	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
Xylenes, Total	0.38	0.30	P	mg/L	200	11/5/2021 7:47:00 PM	R82630
Surr: 1,2-Dichloroethane-d4	110	70-130	P	%Rec	200	11/5/2021 7:47:00 PM	R82630
Surr: 4-Bromofluorobenzene	120	70-130	P	%Rec	200	11/5/2021 7:47:00 PM	R82630
Surr: Dibromofluoromethane	103	70-130	P	%Rec	200	11/5/2021 7:47:00 PM	R82630
Surr: Toluene-d8	77.2	70-130	P	%Rec	200	11/5/2021 7:47:00 PM	R82630

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

Qualifiers:

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

Pace Analytical®

ANALYTICAL REPORT

November 11, 2021

Hall Environmental Analysis Laboratory

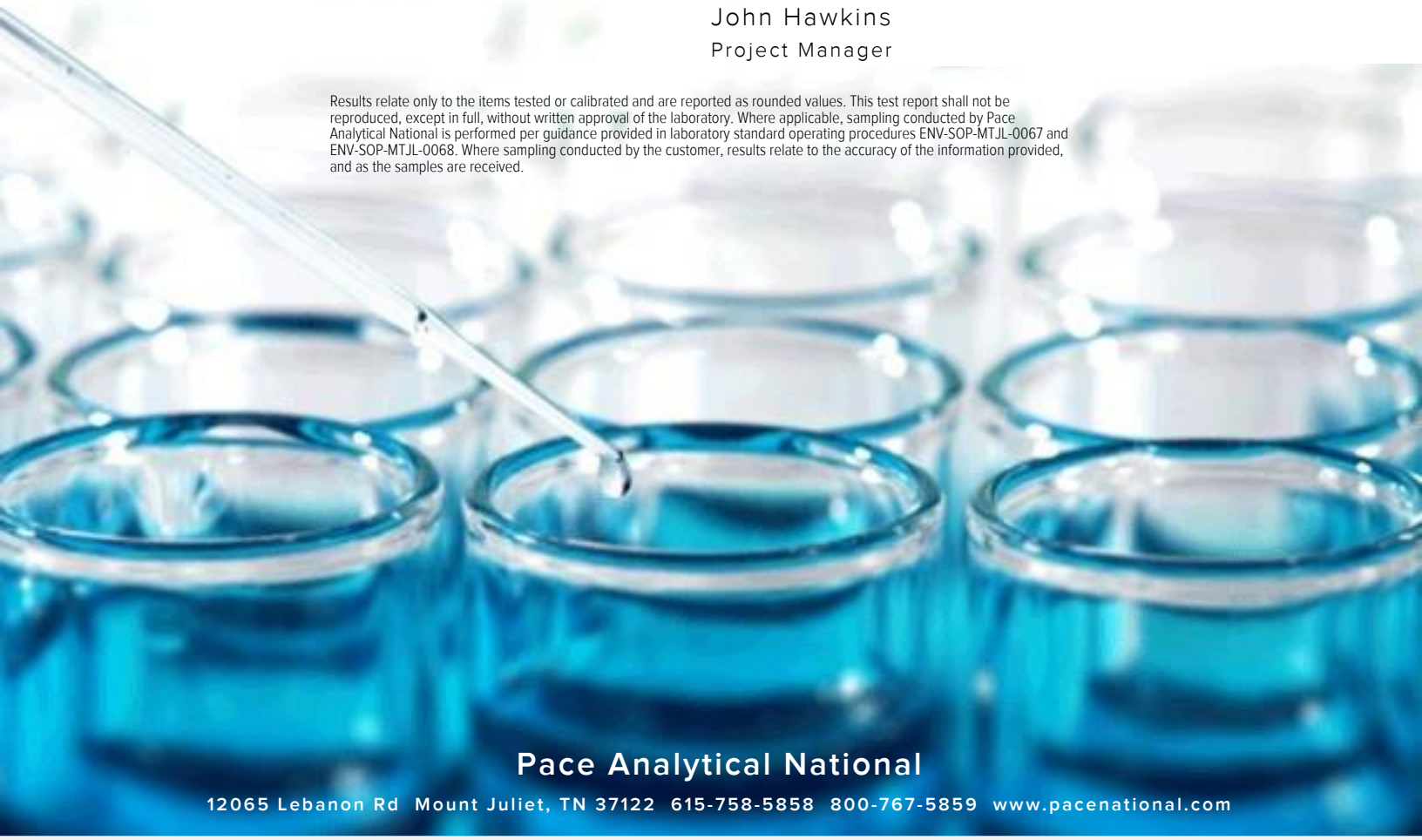
Sample Delivery Group:	L1426103
Samples Received:	11/03/2021
Project Number:	
Description:	

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

Entire Report Reviewed By:

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

TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

2111049-001 BALLARD L1426103-01 5

Qc: Quality Control Summary 6

Wet Chemistry by Method 4500 CN E-2016 6

Wet Chemistry by Method 4500 S2 D-2011 7

Wet Chemistry by Method 4500H+ B-2011 8

Wet Chemistry by Method D93/1010A 9

Gl: Glossary of Terms 10

Al: Accreditations & Locations 11

Sc: Sample Chain of Custody 12

SAMPLE SUMMARY

	Collected by	Collected date/time	Received date/time
2111049-001 BALLARD L1426103-01 WW		10/29/21 13:40	11/03/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 4500 CN E-2016	WG1769288	1	11/05/21 08:40	11/11/21 12:18	KEG	Mt. Juliet, TN
Wet Chemistry by Method 4500 S2 D-2011	WG1768974	1	11/04/21 15:08	11/04/21 15:08	RAF	Mt. Juliet, TN
Wet Chemistry by Method 4500H+ B-2011	WG1768478	1	11/03/21 22:43	11/03/21 22:43	KAB	Mt. Juliet, TN
Wet Chemistry by Method D93/1010A	WG1770950	1	11/09/21 02:11	11/09/21 02:11	WOS	Mt. Juliet, TN

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

John Hawkins
Project Manager

Project Narrative

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

Wet Chemistry by Method 4500 CN E-2016

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Cyanide	0.00692		0.00500	1	11/11/2021 12:18	WG1769288

Wet Chemistry by Method 4500 S2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Sulfide	0.0510		0.0500	1	11/04/2021 15:08	WG1768974

Wet Chemistry by Method 4500H+ B-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
Corrosivity by pH	5.29	T8	1	11/03/2021 22:43	WG1768478

Sample Narrative:

L1426103-01 WG1768478: 5.29 @ 18.39C

Wet Chemistry by Method D93/1010A

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	deg F			date / time	
Flashpoint	DNF at 170		1	11/09/2021 02:11	WG1770950

Method Blank (MB)

(MB) R3728377-1 11/11/21 12:00

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

L1425909-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1425909-02 11/11/21 12:08 • (DUP) R3728377-3 11/11/21 12:09

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

L1425909-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1425909-04 11/11/21 12:15 • (DUP) R3728377-6 11/11/21 12:16

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

Laboratory Control Sample (LCS)

(LCS) R3728377-2 11/11/21 12:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Cyanide	0.100	0.0900	90.0	87.1-120	

L1425909-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1425909-03 11/11/21 12:12 • (MS) R3728377-4 11/11/21 12:13 • (MSD) R3728377-5 11/11/21 12:14

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	ND	0.0360	0.0972	36.0	97.2	1	90.0-110	J6	J3	91.9	20

L1426362-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1426362-02 11/11/21 12:25 • (MS) R3728377-7 11/11/21 12:27 • (MSD) R3728377-8 11/11/21 12:28

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	ND	0.0917	0.0935	91.7	93.5	1	90.0-110			1.94	20

Method Blank (MB)

(MB) R3725621-1 11/04/21 15:04

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

L1425010-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1425010-01 11/04/21 15:05 • (DUP) R3725621-3 11/04/21 15:05

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

Laboratory Control Sample (LCS)

(LCS) R3725621-2 11/04/21 15:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Sulfide	0.500	0.442	88.4	85.0-115	

L1425127-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1425127-01 11/04/21 15:07 • (MS) R3725621-4 11/04/21 15:07 • (MSD) R3725621-5 11/04/21 15:07

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Sulfide	0.500	ND	0.475	0.476	95.0	95.2	1	80.0-120			0.210	20

L1422822-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1422822-01 11/03/21 20:57 • (DUP) R3725579-2 11/03/21 21:02

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
Corrosivity by pH	8.76	8.76	1	0.000		1

Sample Narrative:

OS: 8.76 @ 18.18C

DUP: 8.76 @ 18.15C

L1425196-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1425196-02 11/03/21 21:54 • (DUP) R3725579-3 11/03/21 21:59

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
Corrosivity by pH	8.29	8.25	1	0.484		1

Sample Narrative:

OS: 8.29 @ 18.22C

DUP: 8.25 @ 18.30C

Laboratory Control Sample (LCS)

(LCS) R3725579-1 11/03/21 20:41

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
Corrosivity by pH	10.0	9.96	99.6	99.0-101	

Sample Narrative:

LCS: 9.96 @ 18.03C

L1425906-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1425906-01 11/09/21 02:11 • (DUP) R3727063-3 11/09/21 02:11

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

L1426299-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1426299-01 11/09/21 02:11 • (DUP) R3727063-4 11/09/21 02:11

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

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

(LCS) R3727063-1 11/09/21 02:11 • (LCSD) R3727063-2 11/09/21 02:11

Analyte	Spike Amount deg F	LCS Result deg F	LCSD Result deg F	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Flashpoint	126	125	127	99.6	101	96.0-104			1.58	10

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

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

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

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

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

L4426103

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2111049-001D	Ballard	500HDPE	Aqueous	10/29/2021 1:40:00 PM	1	RCI -01
2	2111049-001E	Ballard	500PLNAOH ZNAC	Aqueous	10/29/2021 1:40:00 PM	1	RCI -01
3	2111049-001F	Ballard	500PL-NaOH	Aqueous	10/29/2021 1:40:00 PM	1	RCI -01

B002

Sample Receipt Checklist

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

SPECIAL INSTRUCTIONS / COMMENTS:

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

Relinquished By:	Date: 11/2/2021	Time: 8:36 AM	Received By: B. Barnes	Date: 11/3/21	Time: 0900
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

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

REPORT TRANSMITTAL DESIRED:

☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY

cool ATB

Temp of samples 0.2-.1=0.1 °C Attempt to Cool ? _____

Comments: _____

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2111049**

22-Nov-21

Client: Souder, Miller and Associates

Project: Ballard

Sample ID: **MB-63964**	SampType: **MBLK**	TestCode: **EPA Method 245.1: Mercury**							
Client ID: **PBW**	Batch ID: **63964**	RunNo: **82867**							
Prep Date: **11/16/2021**	Analysis Date: **11/16/2021**	SeqNo: **2942396**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID: **LCSLL-63964**	SampType: **LCSLL**	TestCode: **EPA Method 245.1: Mercury**							
Client ID: **BatchQC**	Batch ID: **63964**	RunNo: **82867**							
Prep Date: **11/16/2021**	Analysis Date: **11/16/2021**	SeqNo: **2942397**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020	0.0001500	0	83.2	50	150			

Sample ID: **LCS-63964**	SampType: **LCS**	TestCode: **EPA Method 245.1: Mercury**							
Client ID: **LCSW**	Batch ID: **63964**	RunNo: **82867**							
Prep Date: **11/16/2021**	Analysis Date: **11/16/2021**	SeqNo: **2942398**	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	98.5	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 interference
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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2111049**
22-Nov-21

Client: Souder, Miller and Associates
Project: Ballard

Sample ID: **100ng 8260 lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R82630**	RunNo: **82630**
Prep Date:	Analysis Date: **11/5/2021**	SeqNo: **2933325** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	93.4	70	130			
Toluene	18	1.0	20.00	0	87.9	70	130			
Chlorobenzene	18	1.0	20.00	0	90.0	70	130			
1,1-Dichloroethene	18	1.0	20.00	0	88.4	70	130			
Trichloroethene (TCE)	18	1.0	20.00	0	88.4	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		112	70	130			
Surr: Dibromofluoromethane	10		10.00		100	70	130			
Surr: Toluene-d8	7.2		10.00		72.5	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R82630**	RunNo: **82630**
Prep Date:	Analysis Date: **11/5/2021**	SeqNo: **2933326** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

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 interference
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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2111049**
22-Nov-21

Client: Souder, Miller and Associates
Project: Ballard

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R82630** RunNo: **82630**
Prep Date: Analysis Date: **11/5/2021** SeqNo: **2933326** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2111049**
22-Nov-21

Client: Souder, Miller and Associates
Project: Ballard

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R82630**	RunNo: **82630**
Prep Date:	Analysis Date: **11/5/2021**	SeqNo: **2933326** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		102	70	130			
Surr: 4-Bromofluorobenzene	8.4		10.00		84.0	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	9.0		10.00		89.8	70	130			

Sample ID: **100ng 8260 lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R82630**	RunNo: **82630**
Prep Date:	Analysis Date: **11/6/2021**	SeqNo: **2933490** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	97.7	70	130			
Toluene	19	1.0	20.00	0	96.9	70	130			
Chlorobenzene	19	1.0	20.00	0	94.0	70	130			
1,1-Dichloroethene	17	1.0	20.00	0	87.2	70	130			
Trichloroethene (TCE)	22	1.0	20.00	0	110	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		103	70	130			
Surr: 4-Bromofluorobenzene	12		10.00		122	70	130			
Surr: Dibromofluoromethane	10		10.00		99.5	70	130			
Surr: Toluene-d8	9.6		10.00		96.4	70	130			

Sample ID: **mb 2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R82630**	RunNo: **82630**
Prep Date:	Analysis Date: **11/6/2021**	SeqNo: **2933491** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								

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 interference
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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2111049**
22-Nov-21

Client: Souder, Miller and Associates
Project: Ballard

Sample ID: **mb 2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R82630**	RunNo: **82630**
Prep Date:	Analysis Date: **11/6/2021**	SeqNo: **2933491** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2111049**
22-Nov-21

Client: Souder, Miller and Associates
Project: Ballard

Sample ID: **mb 2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R82630**	RunNo: **82630**
Prep Date:	Analysis Date: **11/6/2021**	SeqNo: **2933491** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		103	70	130			
Surr: 4-Bromofluorobenzene	9.0		10.00		89.5	70	130			
Surr: Dibromofluoromethane	11		10.00		105	70	130			
Surr: Toluene-d8	7.5		10.00		74.6	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2111049**
22-Nov-21

Client: Souder, Miller and Associates
Project: Ballard

Sample ID: **mb-63787** SampType: **MBLK** TestCode: **EPA Method 8270SIM**
Client ID: **PBW** Batch ID: **63787** RunNo: **82708**
Prep Date: **11/5/2021** Analysis Date: **11/9/2021** SeqNo: **2936391** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.10								
1-Methylnaphthalene	ND	0.10								
2-Methylnaphthalene	ND	0.10								
Acenaphthylene	ND	0.10								
Acenaphthene	ND	0.10								
Fluorene	ND	0.10								
Phenanthrene	ND	0.10								
Anthracene	ND	0.10								
Fluoranthene	ND	0.20								
Pyrene	0.30	0.20								
Benz(a)anthracene	ND	0.10								
Chrysene	ND	0.10								
Benzo(b)fluoranthene	ND	0.10								
Benzo(k)fluoranthene	ND	0.10								
Benzo(a)pyrene	ND	0.070								
Dibenz(a,h)anthracene	ND	0.10								
Benzo(g,h,i)perylene	ND	0.10								
Indeno(1,2,3-cd)pyrene	ND	0.30								
Surr: Nitrobenzene-d5	2.3		4.000		57.0	21.9	89.8			
Surr: 2,4,6-Tribromophenol	4.0		8.000		49.8	23.4	71.6			
Surr: 2-Fluorobiphenyl	2.0		4.000		49.5	15	84.5			
Surr: 4-Terphenyl-d14	4.8		4.000		120	73.1	152			

Sample ID: **lcs-63787** SampType: **LCS** TestCode: **EPA Method 8270SIM**
Client ID: **LCSW** Batch ID: **63787** RunNo: **82708**
Prep Date: **11/5/2021** Analysis Date: **11/9/2021** SeqNo: **2936392** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	1.0	0.10	2.000	0	50.0	26.5	90.9			
1-Methylnaphthalene	1.0	0.10	2.000	0	51.0	27.9	88.2			
2-Methylnaphthalene	1.0	0.10	2.000	0	50.0	29.2	87.5			
Acenaphthylene	1.1	0.10	2.000	0	56.0	30	92.9			
Acenaphthene	1.1	0.10	2.000	0	54.0	25.6	93.9			
Fluorene	1.0	0.10	2.000	0	52.0	27.4	95.1			
Phenanthrene	1.2	0.10	2.000	0	61.0	25.1	104			
Anthracene	1.2	0.10	2.000	0	61.0	30.1	100			
Fluoranthene	1.5	0.20	2.000	0	76.0	41.6	126			
Pyrene	1.5	0.20	2.000	0	73.0	34.5	112			B
Benz(a)anthracene	1.7	0.10	2.000	0	84.0	43.9	132			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2111049**

22-Nov-21

Client: Souder, Miller and Associates

Project: Ballard

Sample ID: **lcs-63787**	SampType: **LCS**	TestCode: **EPA Method 8270SIM**
Client ID: **LCSW**	Batch ID: **63787**	RunNo: **82708**
Prep Date: **11/5/2021**	Analysis Date: **11/9/2021**	SeqNo: **2936392** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chrysene	1.5	0.10	2.000	0	77.0	39.8	118			
Benzo(b)fluoranthene	1.5	0.10	2.000	0	73.0	37.2	134			
Benzo(k)fluoranthene	1.6	0.10	2.000	0	79.0	43.8	122			
Benzo(a)pyrene	1.5	0.070	2.000	0	74.0	36.6	122			
Dibenz(a,h)anthracene	1.3	0.10	2.000	0	67.0	35.5	129			
Benzo(g,h,i)perylene	1.4	0.10	2.000	0	69.0	39.4	120			
Indeno(1,2,3-cd)pyrene	1.5	0.30	2.000	0	73.0	24.9	150			
Surr: Nitrobenzene-d5	3.3		5.000		65.2	21.9	89.8			
Surr: 2,4,6-Tribromophenol	5.6		10.00		55.8	23.4	71.6			
Surr: 2-Fluorobiphenyl	2.5		5.000		50.4	15	84.5			
Surr: 4-Terphenyl-d14	5.6		5.000		112	73.1	152			

Sample ID: **lcsd-63787**	SampType: **LCSD**	TestCode: **EPA Method 8270SIM**
Client ID: **LCSS02**	Batch ID: **63787**	RunNo: **82708**
Prep Date: **11/5/2021**	Analysis Date: **11/9/2021**	SeqNo: **2936393** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.96	0.10	2.000	0	48.0	26.5	90.9	4.08	37.6	
1-Methylnaphthalene	0.96	0.10	2.000	0	48.0	27.9	88.2	6.06	33.1	
2-Methylnaphthalene	0.94	0.10	2.000	0	47.0	29.2	87.5	6.19	35.4	
Acenaphthylene	1.0	0.10	2.000	0	51.0	30	92.9	9.35	31.7	
Acenaphthene	0.98	0.10	2.000	0	49.0	25.6	93.9	9.71	36.3	
Fluorene	0.94	0.10	2.000	0	47.0	27.4	95.1	10.1	32.2	
Phenanthrene	1.1	0.10	2.000	0	54.0	25.1	104	12.2	32.9	
Anthracene	1.1	0.10	2.000	0	54.0	30.1	100	12.2	31.5	
Fluoranthene	1.4	0.20	2.000	0	69.0	41.6	126	9.66	26.5	
Pyrene	1.4	0.20	2.000	0	70.0	34.5	112	4.20	23.3	B
Benz(a)anthracene	1.6	0.10	2.000	0	80.0	43.9	132	4.88	29.5	
Chrysene	1.6	0.10	2.000	0	80.0	39.8	118	3.82	22.3	
Benzo(b)fluoranthene	1.5	0.10	2.000	0	73.0	37.2	134	0	25.2	
Benzo(k)fluoranthene	1.6	0.10	2.000	0	80.0	43.8	122	1.26	23.1	
Benzo(a)pyrene	1.5	0.070	2.000	0	77.0	36.6	122	3.97	22.4	
Dibenz(a,h)anthracene	1.4	0.10	2.000	0	69.0	35.5	129	2.94	23.7	
Benzo(g,h,i)perylene	1.4	0.10	2.000	0	71.0	39.4	120	2.86	22.9	
Indeno(1,2,3-cd)pyrene	1.5	0.30	2.000	0	73.0	24.9	150	0	26.6	
Surr: Nitrobenzene-d5	3.0		5.000		60.0	21.9	89.8	0	0	
Surr: 2,4,6-Tribromophenol	4.9		10.00		48.6	23.4	71.6	0	0	
Surr: 2-Fluorobiphenyl	2.7		5.000		53.6	15	84.5	0	0	
Surr: 4-Terphenyl-d14	5.7		5.000		114	73.1	152	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 interference
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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2111049**
22-Nov-21

Client: Souder, Miller and Associates
Project: Ballard

Sample ID: **MB-63850** SampType: **MBLK** TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW** Batch ID: **63850** RunNo: **82772**
Prep Date: **11/9/2021** Analysis Date: **11/10/2021** SeqNo: **2938748** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								

Sample ID: **LCS-63850** SampType: **LCS** TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW** Batch ID: **63850** RunNo: **82772**
Prep Date: **11/9/2021** Analysis Date: **11/10/2021** SeqNo: **2938750** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.43	0.0020	0.5000	0	87.0	80	120			
Cadmium	0.41	0.0020	0.5000	0	81.6	80	120			

Sample ID: **MB-63850** SampType: **MBLK** TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW** Batch ID: **63850** RunNo: **82833**
Prep Date: **11/9/2021** Analysis Date: **11/12/2021** SeqNo: **2940722** Units: **mg/L**

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

Sample ID: **LCS-63850** SampType: **LCS** TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW** Batch ID: **63850** RunNo: **82833**
Prep Date: **11/9/2021** Analysis Date: **11/12/2021** SeqNo: **2940724** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.31	0.0060	0.5000	0	61.7	80	120			S
Lead	0.31	0.020	0.5000	0	62.1	80	120			S
Selenium	0.31	0.050	0.5000	0	61.6	80	120			S
Silver	0.066	0.0050	0.1000	0	65.8	80	120			S

Sample ID: **MB-63850** SampType: **MBLK** TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW** Batch ID: **63850** RunNo: **82855**
Prep Date: **11/9/2021** Analysis Date: **11/15/2021** SeqNo: **2941847** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.030								
Chromium	ND	0.0060								

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2111049**
22-Nov-21

Client: Souder, Miller and Associates
Project: Ballard

Sample ID: **LCS-63850** SampType: **LCS** TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW** Batch ID: **63850** RunNo: **82855**
Prep Date: **11/9/2021** Analysis Date: **11/15/2021** SeqNo: **2941849** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.45	0.030	0.5000	0	90.9	80	120			
Chromium	0.45	0.0060	0.5000	0	90.3	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 interference
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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 2111049 | RcptNo: 1

Received By: Cheyenne Cason 11/2/2021 7:15:00 AM

Completed By: Sean Livingston 11/2/2021 8:29:03 AM

Reviewed By: JR 11/2/21

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

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

# of preserved bottles checked for pH: 1 2 (<2 or >12 unless noted)

Adjusted? NO

Checked by: 11.2.21

Special Handling (if applicable)

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

Person Notified: Date:

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

Regarding:

Client Instructions:

16. Additional remarks: Sample 001E didnot ph. 11.2.21

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.4	Good				

Released to Imaging: 10/2/2023 4:00:31 PM

Received by OCD: 10/2/2023 3:49:18 PM

Chain-of-Custody Record

Client: SMA

Mailing Address: 401 Broadway
Farmington, NM 87401

Phone #: 505 320 8975

email or Fax#: ashley.maxwell@
ScrudderMiller.com

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

Accreditation
☐ NELAP ☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: Ballard

Project #:

Project Manager: Ashley Maxwell

Sampler: SH

On Ice: ☒ Yes ☐ No

Sample Temperature: 4.4 - 0 = 4.4

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals TCLP	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	RCI				Air Bubbles (Y or N)
10/27/21	13:40	Aqueous	Ballard	Various	Various	2111049 001						X	X			X		X				
			Non exempt																			

Date:	Time:	Relinquished by:	Received by:	Date	Time
11/1/21	1650		Mark Wael	11/1/21	1650
11/1/21	1815		Courier CMC	11/2/21 2/21	0715

Remarks: 8260 Full List
TCLP Compound at TCLP Limits

Invoice Enterprise CC Tom Long

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

December 10, 2021

Ashley Maxwell

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

RE: Lindrith CS OrderNo.: 2111520

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/10/2021 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2111520**
Date Reported: **12/10/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Non Exempt Tank
Project: Lindrith CS
Collection Date: 11/9/2021 12:15:00 PM
Lab ID: 2111520-001 **Matrix:** AQUEOUS **Received Date:** 11/10/2021 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 7470A: MERCURY						Analyst: **VP**	
Mercury	ND	0.020		mg/L	1	11/12/2021 10:10:05 AM	63894
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **JLF**	
Arsenic	ND	5.0		mg/L	1	11/16/2021 4:28:25 PM	63882
Barium	ND	100		mg/L	1	11/11/2021 5:16:20 PM	63882
Cadmium	ND	1.0		mg/L	1	11/11/2021 5:16:20 PM	63882
Chromium	ND	5.0		mg/L	1	11/12/2021 8:13:01 PM	63882
Lead	ND	5.0		mg/L	1	11/12/2021 8:13:01 PM	63882
Selenium	ND	1.0		mg/L	1	11/12/2021 8:13:01 PM	63882
Silver	ND	5.0		mg/L	1	11/12/2021 8:13:01 PM	63882
EPA METHOD 8270SIM						Analyst: **TOM**	
Naphthalene	ND	10	D	µg/L	10	11/18/2021 5:44:00 AM	63870
1-Methylnaphthalene	ND	10	D	µg/L	10	11/18/2021 5:44:00 AM	63870
2-Methylnaphthalene	ND	10	D	µg/L	10	11/18/2021 5:44:00 AM	63870
Acenaphthylene	ND	10	D	µg/L	10	11/18/2021 5:44:00 AM	63870
Acenaphthene	ND	10	D	µg/L	10	11/18/2021 5:44:00 AM	63870
Fluorene	ND	10	D	µg/L	10	11/18/2021 5:44:00 AM	63870
Phenanthrene	ND	10	D	µg/L	10	11/18/2021 5:44:00 AM	63870
Anthracene	ND	10	D	µg/L	10	11/18/2021 5:44:00 AM	63870
Fluoranthene	ND	20	D	µg/L	10	11/18/2021 5:44:00 AM	63870
Pyrene	ND	20	D	µg/L	10	11/18/2021 5:44:00 AM	63870
Benz(a)anthracene	ND	10	D	µg/L	10	11/18/2021 5:44:00 AM	63870
Chrysene	ND	10	D	µg/L	10	11/18/2021 5:44:00 AM	63870
Benzo(b)fluoranthene	ND	10	D	µg/L	10	11/18/2021 5:44:00 AM	63870
Benzo(k)fluoranthene	ND	10	D	µg/L	10	11/18/2021 5:44:00 AM	63870
Benzo(a)pyrene	ND	7.0	D	µg/L	10	11/18/2021 5:44:00 AM	63870
Dibenz(a,h)anthracene	ND	10	D	µg/L	10	11/18/2021 5:44:00 AM	63870
Benzo(g,h,i)perylene	ND	10	D	µg/L	10	11/18/2021 5:44:00 AM	63870
Indeno(1,2,3-cd)pyrene	ND	30	D	µg/L	10	11/18/2021 5:44:00 AM	63870
Surr: Nitrobenzene-d5	0	21.9-89.8	SD	%Rec	10	11/18/2021 5:44:00 AM	63870
Surr: 2-Fluorobiphenyl	0	15-84.5	SD	%Rec	10	11/18/2021 5:44:00 AM	63870
Surr: 4-Terphenyl-d14	0	73.1-152	SD	%Rec	10	11/18/2021 5:44:00 AM	63870
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.50		mg/L	200	11/16/2021 8:14:31 AM	B82851
Toluene	0.74	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
Ethylbenzene	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
Methyl tert-butyl ether (MTBE)	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
1,2,4-Trimethylbenzene	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
1,3,5-Trimethylbenzene	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851

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

Qualifiers:

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

Analytical Report
Lab Order **2111520**
Date Reported: **12/10/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Non Exempt Tank
Project: Lindrith CS
Collection Date: 11/9/2021 12:15:00 PM
Lab ID: 2111520-001 **Matrix:** AQUEOUS **Received Date:** 11/10/2021 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,2-Dichloroethane (EDC)	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
1,2-Dibromoethane (EDB)	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
Naphthalene	ND	0.40		mg/L	200	11/16/2021 8:14:31 AM	B82851
1-Methylnaphthalene	ND	0.80		mg/L	200	11/16/2021 8:14:31 AM	B82851
2-Methylnaphthalene	ND	0.80		mg/L	200	11/16/2021 8:14:31 AM	B82851
Acetone	ND	2.0		mg/L	200	11/16/2021 8:14:31 AM	B82851
Bromobenzene	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
Bromodichloromethane	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
Bromoform	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
Bromomethane	ND	0.60		mg/L	200	11/16/2021 8:14:31 AM	B82851
2-Butanone	ND	2.0		mg/L	200	11/16/2021 8:14:31 AM	B82851
Carbon disulfide	ND	2.0		mg/L	200	11/16/2021 8:14:31 AM	B82851
Carbon Tetrachloride	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
Chlorobenzene	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
Chloroethane	ND	0.40		mg/L	200	11/16/2021 8:14:31 AM	B82851
Chloroform	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
Chloromethane	ND	0.60		mg/L	200	11/16/2021 8:14:31 AM	B82851
2-Chlorotoluene	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
4-Chlorotoluene	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
cis-1,2-DCE	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
cis-1,3-Dichloropropene	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
1,2-Dibromo-3-chloropropane	ND	0.40		mg/L	200	11/16/2021 8:14:31 AM	B82851
Dibromochloromethane	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
Dibromomethane	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
1,2-Dichlorobenzene	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
1,3-Dichlorobenzene	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
1,4-Dichlorobenzene	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
Dichlorodifluoromethane	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
1,1-Dichloroethane	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
1,1-Dichloroethene	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
1,2-Dichloropropane	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
1,3-Dichloropropane	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
2,2-Dichloropropane	ND	0.40		mg/L	200	11/16/2021 8:14:31 AM	B82851
1,1-Dichloropropene	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
Hexachlorobutadiene	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
2-Hexanone	ND	2.0		mg/L	200	11/16/2021 8:14:31 AM	B82851
Isopropylbenzene	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
4-Isopropyltoluene	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
4-Methyl-2-pentanone	ND	2.0		mg/L	200	11/16/2021 8:14:31 AM	B82851

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

Qualifiers:

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

Analytical Report
Lab Order **2111520**
Date Reported: **12/10/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Non Exempt Tank
Project: Lindrith CS
Collection Date: 11/9/2021 12:15:00 PM
Lab ID: 2111520-001 **Matrix:** AQUEOUS **Received Date:** 11/10/2021 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Methylene Chloride	ND	0.60		mg/L	200	11/16/2021 8:14:31 AM	B82851
n-Butylbenzene	ND	0.60		mg/L	200	11/16/2021 8:14:31 AM	B82851
n-Propylbenzene	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
sec-Butylbenzene	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
Styrene	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
tert-Butylbenzene	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
1,1,1,2-Tetrachloroethane	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
1,1,2,2-Tetrachloroethane	ND	0.40		mg/L	200	11/16/2021 8:14:31 AM	B82851
Tetrachloroethene (PCE)	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
trans-1,2-DCE	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
trans-1,3-Dichloropropene	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
1,2,3-Trichlorobenzene	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
1,2,4-Trichlorobenzene	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
1,1,1-Trichloroethane	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
1,1,2-Trichloroethane	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
Trichloroethene (TCE)	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
Trichlorofluoromethane	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
1,2,3-Trichloropropane	ND	0.40		mg/L	200	11/16/2021 8:14:31 AM	B82851
Vinyl chloride	ND	0.20		mg/L	200	11/16/2021 8:14:31 AM	B82851
Xylenes, Total	ND	0.30		mg/L	200	11/16/2021 8:14:31 AM	B82851
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	200	11/16/2021 8:14:31 AM	B82851
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	200	11/16/2021 8:14:31 AM	B82851
Surr: Dibromofluoromethane	101	70-130		%Rec	200	11/16/2021 8:14:31 AM	B82851
Surr: Toluene-d8	98.6	70-130		%Rec	200	11/16/2021 8:14:31 AM	B82851

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

Qualifiers:

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

Pace Analytical®

ANALYTICAL REPORT

December 08, 2021

Hall Environmental Analysis Laboratory

Sample Delivery Group: L1430038

Samples Received: 11/11/2021

Project Number:

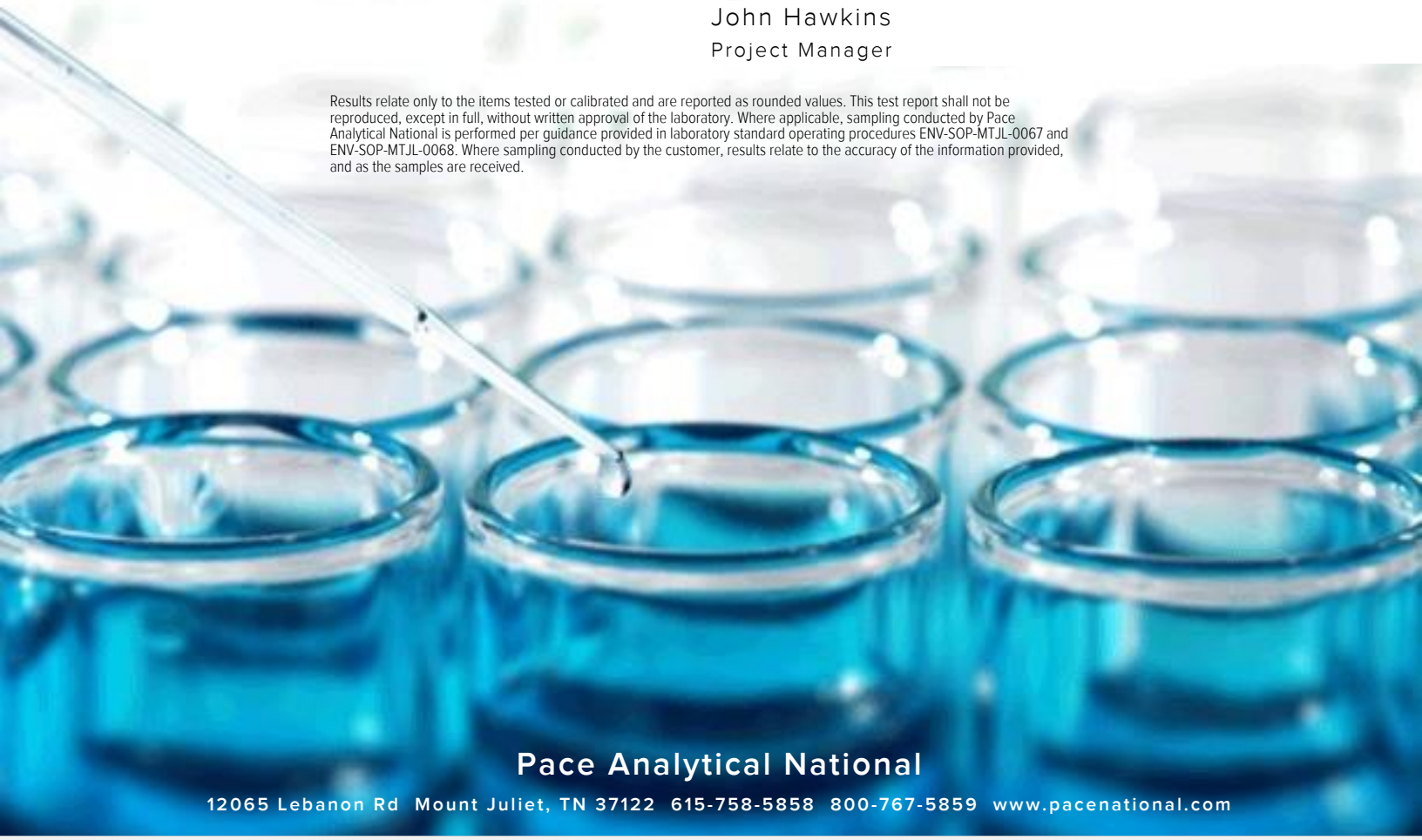
Description:

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

Entire Report Reviewed By:

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

TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

2111520-001D/E/F NON EXEMPT TANK L1430038-01 5

Qc: Quality Control Summary 6

Wet Chemistry by Method 4500 CN E-2016 6

Wet Chemistry by Method 4500 S2 D-2011 7

Wet Chemistry by Method 9040C 8

Wet Chemistry by Method D93/1010A 9

Gl: Glossary of Terms 10

Al: Accreditations & Locations 11

Sc: Sample Chain of Custody 12

SAMPLE SUMMARY

2111520-001D/E/F NON EXEMPT TANK L1430038-01 GW

Collected by	Collected date/time	Received date/time
	11/09/21 12:15	11/11/21 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 4500 CN E-2016	WG1773623	1	11/13/21 09:40	11/14/21 03:59	SDL	Mt. Juliet, TN
Wet Chemistry by Method 4500 S2 D-2011	WG1773477	1	11/12/21 17:26	11/12/21 17:26	UNP	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG1785643	1	12/07/21 16:45	12/07/21 16:45	SCM	Mt. Juliet, TN
Wet Chemistry by Method D93/1010A	WG1774768	1	11/16/21 02:56	11/16/21 02:56	CAT	Mt. Juliet, TN

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

John Hawkins
Project Manager

Project Narrative

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

Wet Chemistry by Method 4500 CN E-2016

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Cyanide	0.00753		0.00500	1	11/14/2021 03:59	WG1773623

Wet Chemistry by Method 4500 S2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Sulfide	0.452		0.0500	1	11/12/2021 17:26	WG1773477

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
Corrosivity by pH	6.16	T8	1	12/07/2021 16:45	WG1785643

Sample Narrative:

L1430038-01 WG1785643: 6.16 @ 17.31C

Wet Chemistry by Method D93/1010A

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	deg F			date / time	
Flashpoint	DNF at 170		1	11/16/2021 02:56	WG1774768

Method Blank (MB)

(MB) R3729164-1 11/14/21 03:33

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

L1429774-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1429774-10 11/14/21 03:37 • (DUP) R3729164-3 11/14/21 03:38

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

L1429774-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1429774-14 11/14/21 03:46 • (DUP) R3729164-6 11/14/21 03:47

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

Laboratory Control Sample (LCS)

(LCS) R3729164-2 11/14/21 03:34

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Cyanide	0.100	0.102	102	87.1-120	

L1429774-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1429774-12 11/14/21 03:40 • (MS) R3729164-4 11/14/21 03:41 • (MSD) R3729164-5 11/14/21 03:42

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	ND	0.100	0.0941	100	94.1	1	90.0-110			6.08	20

L1429844-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1429844-02 11/14/21 03:52 • (MS) R3729164-7 11/14/21 03:53 • (MSD) R3729164-8 11/14/21 03:54

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	ND	0.0956	0.0959	95.6	95.9	1	90.0-110			0.313	20

Method Blank (MB)

(MB) R3728998-1 11/12/21 17:16

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

Laboratory Control Sample (LCS)

(LCS) R3728998-2 11/12/21 17:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Sulfide	0.500	0.482	96.4	85.0-115	

L1429781-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1429781-02 11/12/21 17:21 • (MS) R3728998-3 11/12/21 17:21 • (MSD) R3728998-4 11/12/21 17:21

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Sulfide	0.500	ND	0.470	0.485	94.0	97.0	1	80.0-120			3.14	20

L1430038-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1430038-01 12/07/21 16:45 • (DUP) R3738258-2 12/07/21 16:50

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
Corrosivity by pH	6.16	6.14	1	0.325		1

Sample Narrative:

OS: 6.16 @ 17.31C

DUP: 6.14 @ 17.20C

L1437983-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1437983-06 12/07/21 18:03 • (DUP) R3738258-3 12/07/21 18:10

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
Corrosivity by pH	7.46	7.49	1	0.401		1

Sample Narrative:

OS: 7.46 @ 17.23C

DUP: 7.49 @ 17.22C

Laboratory Control Sample (LCS)

(LCS) R3738258-1 12/07/21 16:40

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
Corrosivity by pH	10.0	9.91	99.1	99.0-101	

Sample Narrative:

LCS: 9.91 @ 18.18C

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

L1429069-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1429069-01 11/16/21 02:56 • (DUP) R3729788-3 11/16/21 02:56

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

L1430041-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1430041-01 11/16/21 02:56 • (DUP) R3729788-4 11/16/21 02:56

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

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

(LCS) R3729788-1 11/16/21 02:56 • (LCSD) R3729788-2 11/16/21 02:56

Analyte	Spike Amount deg F	LCS Result deg F	LCSD Result deg F	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Flashpoint	126	130	128	103	101	96.0-104			1.55	10

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

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

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

E084

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

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

U4800378

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2111520-001D	Non Exempt Tank	500HDPE	Aqueous	11/9/2021 12:15:00 PM	1	RCI — 9
2	2111520-001E	Non Exempt Tank	500PLNAOH ZNAC	Aqueous	11/9/2021 12:15:00 PM	1	RCI >12 — 1
3	2111520-001F	Non Exempt Tank	500PL-NaOH	Aqueous	11/9/2021 12:15:00 PM	1	RCI RCV >12

5300 4295 6592

Sample Receipt Checklist

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

1.4 - .1 = 1.3 AT BP

SPECIAL INSTRUCTIONS / COMMENTS:

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

Relinquished By:	Date: 11/10/2021	Time: 9:27 AM	Received By:	Date: 11/11/21	Time: 0846
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

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

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

FOR LAB USE ONLY
Temp of samples _____ °C Attempt to Cool ? _____
Comments: _____

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2111520**
10-Dec-21

Client: Souder, Miller and Associates
Project: Lindrith CS

Sample ID: **100ng lcs2**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**							
Client ID: **LCSW**	Batch ID: **B82851**	RunNo: **82851**							
Prep Date:	Analysis Date: **11/16/2021**	SeqNo: **2941417**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	23	1.0	20.00	0	115	70	130			
Toluene	19	1.0	20.00	0	96.1	70	130			
Chlorobenzene	19	1.0	20.00	0	92.8	70	130			
1,1-Dichloroethene	21	1.0	20.00	0	106	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	101	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		112	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		94.8	70	130			
Surr: Dibromofluoromethane	11		10.00		110	70	130			
Surr: Toluene-d8	9.8		10.00		97.5	70	130			

Sample ID: **mb2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**							
Client ID: **PBW**	Batch ID: **B82851**	RunNo: **82851**							
Prep Date:	Analysis Date: **11/16/2021**	SeqNo: **2941457**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

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 interference
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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2111520**
10-Dec-21

Client: Souder, Miller and Associates
Project: Lindrith CS

Sample ID: **mb2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **B82851**	RunNo: **82851**
Prep Date:	Analysis Date: **11/16/2021**	SeqNo: **2941457** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

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 interference
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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2111520**
10-Dec-21

Client: Souder, Miller and Associates
Project: Lindrith CS

Sample ID: **mb2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **B82851**	RunNo: **82851**
Prep Date:	Analysis Date: **11/16/2021**	SeqNo: **2941457** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		113	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.7	70	130			
Surr: Dibromofluoromethane	11		10.00		110	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2111520**
10-Dec-21

Client: Souder, Miller and Associates
Project: Lindrith CS

Sample ID: **mb-63870** SampType: **MBLK** TestCode: **EPA Method 8270SIM**
Client ID: **PBW** Batch ID: **63870** RunNo: **82949**
Prep Date: **11/10/2021** Analysis Date: **11/17/2021** SeqNo: **2945814** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.10								
1-Methylnaphthalene	ND	0.10								
2-Methylnaphthalene	ND	0.10								
Acenaphthylene	ND	0.10								
Acenaphthene	ND	0.10								
Fluorene	ND	0.10								
Phenanthrene	ND	0.10								
Anthracene	ND	0.10								
Fluoranthene	ND	0.20								
Pyrene	ND	0.20								
Benz(a)anthracene	ND	0.10								
Chrysene	ND	0.10								
Benzo(b)fluoranthene	ND	0.10								
Benzo(k)fluoranthene	ND	0.10								
Benzo(a)pyrene	ND	0.070								
Dibenz(a,h)anthracene	ND	0.10								
Benzo(g,h,i)perylene	ND	0.10								
Indeno(1,2,3-cd)pyrene	ND	0.30								
Surr: Nitrobenzene-d5	2.4		4.000		59.5	21.9	89.8			
Surr: 2,4,6-Tribromophenol	4.4		8.000		54.5	23.4	71.6			
Surr: 2-Fluorobiphenyl	2.1		4.000		51.5	15	84.5			
Surr: 4-Terphenyl-d14	4.2		4.000		105	73.1	152			

Sample ID: **lcs-63870** SampType: **LCS** TestCode: **EPA Method 8270SIM**
Client ID: **LCSW** Batch ID: **63870** RunNo: **82949**
Prep Date: **11/10/2021** Analysis Date: **11/17/2021** SeqNo: **2945815** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.96	0.10	2.000	0	48.0	26.5	90.9			
1-Methylnaphthalene	1.0	0.10	2.000	0	51.0	27.9	88.2			
2-Methylnaphthalene	1.0	0.10	2.000	0	51.0	29.2	87.5			
Acenaphthylene	1.2	0.10	2.000	0	58.0	30	92.9			
Acenaphthene	1.0	0.10	2.000	0	52.0	25.6	93.9			
Fluorene	1.1	0.10	2.000	0	54.0	27.4	95.1			
Phenanthrene	1.2	0.10	2.000	0	59.0	25.1	104			
Anthracene	1.3	0.10	2.000	0	63.0	30.1	100			
Fluoranthene	1.7	0.20	2.000	0	84.0	41.6	126			
Pyrene	1.5	0.20	2.000	0	77.0	34.5	112			
Benz(a)anthracene	1.9	0.10	2.000	0	96.0	43.9	132			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2111520**
10-Dec-21

Client: Souder, Miller and Associates
Project: Lindrith CS

Sample ID: **lcs-63870** SampType: **LCS** TestCode: **EPA Method 8270SIM**
Client ID: **LCSW** Batch ID: **63870** RunNo: **82949**
Prep Date: **11/10/2021** Analysis Date: **11/17/2021** SeqNo: **2945815** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chrysene	1.6	0.10	2.000	0	79.0	39.8	118			
Benzo(b)fluoranthene	1.6	0.10	2.000	0	81.0	37.2	134			
Benzo(k)fluoranthene	1.6	0.10	2.000	0	81.0	43.8	122			
Benzo(a)pyrene	1.8	0.070	2.000	0	90.0	36.6	122			
Dibenz(a,h)anthracene	1.7	0.10	2.000	0	87.0	35.5	129			
Benzo(g,h,i)perylene	1.7	0.10	2.000	0	84.0	39.4	120			
Indeno(1,2,3-cd)pyrene	1.7	0.30	2.000	0	87.0	24.9	150			
Surr: Nitrobenzene-d5	3.2		5.000		64.4	21.9	89.8			
Surr: 2,4,6-Tribromophenol	6.2		10.00		62.4	23.4	71.6			
Surr: 2-Fluorobiphenyl	2.5		5.000		50.8	15	84.5			
Surr: 4-Terphenyl-d14	5.6		5.000		111	73.1	152			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2111520**

10-Dec-21

Client: Souder, Miller and Associates

Project: Lindrith CS

Sample ID: **MB-63894**	SampType: **MBLK**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **PBW**	Batch ID: **63894**	RunNo: **82803**
Prep Date: **11/11/2021**	Analysis Date: **11/12/2021**	SeqNo: **2939736** Units: **mg/L**

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

Sample ID: **LCSLL-63894**	SampType: **LCSLL**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **BatchQC**	Batch ID: **63894**	RunNo: **82803**
Prep Date: **11/11/2021**	Analysis Date: **11/12/2021**	SeqNo: **2939737** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00022	0.00020	0.0001500	0	146	50	150			

Sample ID: **LCS-63894**	SampType: **LCS**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **LCSW**	Batch ID: **63894**	RunNo: **82803**
Prep Date: **11/11/2021**	Analysis Date: **11/12/2021**	SeqNo: **2939738** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0050	0.00020	0.005000	0	100	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 interference
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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2111520**

10-Dec-21

Client: Souder, Miller and Associates

Project: Lindrith CS

Sample ID: **MB-63882**	SampType: **MBLK**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW**	Batch ID: **63882**	RunNo: **82802**
Prep Date: **11/10/2021**	Analysis Date: **11/11/2021**	SeqNo: **2939702** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								

Sample ID: **LCS-63882**	SampType: **LCS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW**	Batch ID: **63882**	RunNo: **82802**
Prep Date: **11/10/2021**	Analysis Date: **11/11/2021**	SeqNo: **2939704** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.45	0.0020	0.5000	0	90.4	80	120			
Cadmium	0.49	0.0020	0.5000	0	97.0	80	120			
Chromium	0.46	0.0060	0.5000	0	91.0	80	120			

Sample ID: **MB-63882**	SampType: **MBLK**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW**	Batch ID: **63882**	RunNo: **82833**
Prep Date: **11/10/2021**	Analysis Date: **11/12/2021**	SeqNo: **2940725** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	ND	0.020								
Selenium	ND	0.050								
Silver	ND	0.0050								

Sample ID: **LCS-63882**	SampType: **LCS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW**	Batch ID: **63882**	RunNo: **82833**
Prep Date: **11/10/2021**	Analysis Date: **11/12/2021**	SeqNo: **2940727** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.44	0.020	0.5000	0	88.3	80	120			
Selenium	0.45	0.050	0.5000	0	89.9	80	120			
Silver	0.093	0.0050	0.1000	0	92.8	80	120			

Sample ID: **MB-63882**	SampType: **MBLK**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW**	Batch ID: **63882**	RunNo: **82855**
Prep Date: **11/10/2021**	Analysis Date: **11/15/2021**	SeqNo: **2941850** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.030								

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2111520**
10-Dec-21

Client: Souder, Miller and Associates
Project: Lindrith CS

Sample ID: **LCS-63882** SampType: **LCS** TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW** Batch ID: **63882** RunNo: **82855**
Prep Date: **11/10/2021** Analysis Date: **11/15/2021** SeqNo: **2941854** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.48	0.030	0.5000	0	96.4	80	120			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: **2111520** RcptNo: **1**

Received By: **Cheyenne Cason** **11/10/2021 8:45:00 AM** CM

Completed By: **Desiree Dominguez** **11/10/2021 9:23:21 AM** DD

Reviewed By: CM 11/10/21

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preserved added to bottles? Yes ☑ No ☑ JN 11/10/21 NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: 1 2 (2) 5 (<2 or >12 unless noted)
Adjusted? yes
Checked by: JN 11/10/21

Special Handling (if applicable)

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

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

16. Additional remarks: 0.5ml of HNO3 was added to sample 001c for pH<2. JN 11/10/21.

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Yes			

Released to Imaging: 10/2/2023 4:00:51 PM
Received by OCD: 10/2/2023 3:49:18 PM

Chain-of-Custody Record

Client: Souder Miller + Associates

Mailing Address: 401 W. Broadway
Farmington, NM 87401

Phone #: 505-325-7535

email or Fax#: ashley.maxwell@souder miller.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Lindrith CS

Project #:

Project Manager: Ashley Maxwell

Sampler: SH

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.3-0.2=1.1 (°C)

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 211520
11-9-21	12:15	Ag	Non-exempt Tanks	(1) 1L amber	Non	-001
				(3) 40mL VOA	HgCl	
				(1) 125mL	HNO_3	
				(1) 250mL	Zn Acetate / HNO_3	
				(1) 250mL	Non	
				(1) 250mL	NaOH	

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals TCLP	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA) Full List	8270 (Semi-VOA)	Total Coliform (Present/Absent)	RCI						
				X	X		X			X						

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
11/9/21	1652	Stephanie Tellez			11/9/21	1652
11/9/21	1752				11/10/21	0845

Remarks: TCLP compounds at TCLP limits. Invoice Enterprise. CC Tom Long

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

January 07, 2022

Ashley Maxwell

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

RE: Enterprise Largo CS OrderNo.: 2112302

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/3/2021 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2112302**
Date Reported: **1/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Largo Non-Exempt
Project: Enterprise Largo CS
Collection Date: 12/2/2021 11:00:00 AM
Lab ID: 2112302-001 **Matrix:** AQUEOUS **Received Date:** 12/3/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 7470A: MERCURY						Analyst: **VP**	
Mercury	ND	0.00020		mg/L	1	12/13/2021 1:03:22 PM	64441
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **JLF**	
Arsenic	ND	0.030		mg/L	1	12/9/2021 8:50:36 PM	64364
Barium	0.032	0.0020		mg/L	1	12/9/2021 8:50:36 PM	64364
Cadmium	0.012	0.0020		mg/L	1	12/9/2021 8:50:36 PM	64364
Chromium	ND	0.0060		mg/L	1	12/9/2021 8:50:36 PM	64364
Lead	ND	0.020		mg/L	1	12/9/2021 8:50:36 PM	64364
Selenium	ND	0.050		mg/L	1	12/9/2021 8:50:36 PM	64364
Silver	ND	0.0050		mg/L	1	12/9/2021 8:50:36 PM	64364
EPA METHOD 8270SIM						Analyst: **TOM**	
Naphthalene	ND	1.0	D	µg/L	1	12/30/2021 10:16:00 AM	64365
1-Methylnaphthalene	ND	1.0	D	µg/L	1	12/30/2021 10:16:00 AM	64365
2-Methylnaphthalene	ND	1.0	D	µg/L	1	12/30/2021 10:16:00 AM	64365
Acenaphthylene	ND	1.0	D	µg/L	1	12/30/2021 10:16:00 AM	64365
Acenaphthene	ND	1.0	D	µg/L	1	12/30/2021 10:16:00 AM	64365
Fluorene	ND	1.0	D	µg/L	1	12/30/2021 10:16:00 AM	64365
Phenanthrene	ND	1.0	D	µg/L	1	12/30/2021 10:16:00 AM	64365
Anthracene	ND	1.0	D	µg/L	1	12/30/2021 10:16:00 AM	64365
Fluoranthene	ND	2.0	D	µg/L	1	12/30/2021 10:16:00 AM	64365
Pyrene	ND	2.0	D	µg/L	1	12/30/2021 10:16:00 AM	64365
Benz(a)anthracene	ND	1.0	D	µg/L	1	12/30/2021 10:16:00 AM	64365
Chrysene	ND	1.0	D	µg/L	1	12/30/2021 10:16:00 AM	64365
Benzo(b)fluoranthene	ND	1.0	D	µg/L	1	12/30/2021 10:16:00 AM	64365
Benzo(k)fluoranthene	ND	1.0	D	µg/L	1	12/30/2021 10:16:00 AM	64365
Benzo(a)pyrene	ND	0.70	D	µg/L	1	12/30/2021 10:16:00 AM	64365
Dibenz(a,h)anthracene	ND	1.0	D	µg/L	1	12/30/2021 10:16:00 AM	64365
Benzo(g,h,i)perylene	ND	1.0	D	µg/L	1	12/30/2021 10:16:00 AM	64365
Indeno(1,2,3-cd)pyrene	ND	3.0	D	µg/L	1	12/30/2021 10:16:00 AM	64365
Surr: Nitrobenzene-d5	11.0	21.9-89.8	SD	%Rec	1	12/30/2021 10:16:00 AM	64365
Surr: 2-Fluorobiphenyl	6.50	15-84.5	SD	%Rec	1	12/30/2021 10:16:00 AM	64365
Surr: 4-Terphenyl-d14	6.50	73.1-152	SD	%Rec	1	12/30/2021 10:16:00 AM	64365
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.50		mg/L	200	12/8/2021 8:49:50 AM	R84353
Toluene	0.47	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
Ethylbenzene	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
Methyl tert-butyl ether (MTBE)	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
1,2,4-Trimethylbenzene	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
1,3,5-Trimethylbenzene	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353

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

Qualifiers:

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

Analytical Report
Lab Order **2112302**
Date Reported: **1/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Largo Non-Exempt
Project: Enterprise Largo CS
Collection Date: 12/2/2021 11:00:00 AM
Lab ID: 2112302-001 **Matrix:** AQUEOUS **Received Date:** 12/3/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,2-Dichloroethane (EDC)	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
1,2-Dibromoethane (EDB)	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
Naphthalene	ND	0.40		mg/L	200	12/8/2021 8:49:50 AM	R84353
1-Methylnaphthalene	ND	0.80		mg/L	200	12/8/2021 8:49:50 AM	R84353
2-Methylnaphthalene	ND	0.80		mg/L	200	12/8/2021 8:49:50 AM	R84353
Acetone	ND	2.0		mg/L	200	12/8/2021 8:49:50 AM	R84353
Bromobenzene	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
Bromodichloromethane	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
Bromoform	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
Bromomethane	ND	0.60		mg/L	200	12/8/2021 8:49:50 AM	R84353
2-Butanone	ND	2.0		mg/L	200	12/8/2021 8:49:50 AM	R84353
Carbon disulfide	ND	2.0		mg/L	200	12/8/2021 8:49:50 AM	R84353
Carbon Tetrachloride	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
Chlorobenzene	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
Chloroethane	ND	0.40		mg/L	200	12/8/2021 8:49:50 AM	R84353
Chloroform	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
Chloromethane	ND	0.60		mg/L	200	12/8/2021 8:49:50 AM	R84353
2-Chlorotoluene	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
4-Chlorotoluene	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
cis-1,2-DCE	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
cis-1,3-Dichloropropene	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
1,2-Dibromo-3-chloropropane	ND	0.40		mg/L	200	12/8/2021 8:49:50 AM	R84353
Dibromochloromethane	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
Dibromomethane	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
1,2-Dichlorobenzene	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
1,3-Dichlorobenzene	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
1,4-Dichlorobenzene	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
Dichlorodifluoromethane	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
1,1-Dichloroethane	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
1,1-Dichloroethene	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
1,2-Dichloropropane	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
1,3-Dichloropropane	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
2,2-Dichloropropane	ND	0.40		mg/L	200	12/8/2021 8:49:50 AM	R84353
1,1-Dichloropropene	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
Hexachlorobutadiene	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
2-Hexanone	ND	2.0		mg/L	200	12/8/2021 8:49:50 AM	R84353
Isopropylbenzene	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
4-Isopropyltoluene	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
4-Methyl-2-pentanone	ND	2.0		mg/L	200	12/8/2021 8:49:50 AM	R84353

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

Qualifiers:

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

Analytical Report
Lab Order **2112302**
Date Reported: **1/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Largo Non-Exempt
Project: Enterprise Largo CS
Collection Date: 12/2/2021 11:00:00 AM
Lab ID: 2112302-001 **Matrix:** AQUEOUS **Received Date:** 12/3/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Methylene Chloride	ND	0.60		mg/L	200	12/8/2021 8:49:50 AM	R84353
n-Butylbenzene	ND	0.60		mg/L	200	12/8/2021 8:49:50 AM	R84353
n-Propylbenzene	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
sec-Butylbenzene	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
Styrene	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
tert-Butylbenzene	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
1,1,1,2-Tetrachloroethane	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
1,1,2,2-Tetrachloroethane	ND	0.40		mg/L	200	12/8/2021 8:49:50 AM	R84353
Tetrachloroethene (PCE)	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
trans-1,2-DCE	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
trans-1,3-Dichloropropene	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
1,2,3-Trichlorobenzene	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
1,2,4-Trichlorobenzene	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
1,1,1-Trichloroethane	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
1,1,2-Trichloroethane	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
Trichloroethene (TCE)	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
Trichlorofluoromethane	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
1,2,3-Trichloropropane	ND	0.40		mg/L	200	12/8/2021 8:49:50 AM	R84353
Vinyl chloride	ND	0.20		mg/L	200	12/8/2021 8:49:50 AM	R84353
Xylenes, Total	ND	0.30		mg/L	200	12/8/2021 8:49:50 AM	R84353
Surr: 1,2-Dichloroethane-d4	98.1	70-130		%Rec	200	12/8/2021 8:49:50 AM	R84353
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	200	12/8/2021 8:49:50 AM	R84353
Surr: Dibromofluoromethane	99.7	70-130		%Rec	200	12/8/2021 8:49:50 AM	R84353
Surr: Toluene-d8	104	70-130		%Rec	200	12/8/2021 8:49:50 AM	R84353

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

Qualifiers:

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

Pace Analytical®

ANALYTICAL REPORT

December 15, 2021

Hall Environmental Analysis Laboratory

Sample Delivery Group:	L1439094
Samples Received:	12/07/2021
Project Number:	
Description:	

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

Entire Report Reviewed By:

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

TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

2112302-001DEF LARGO NON-EXEMPT L1439094-01 5

Qc: Quality Control Summary 6

Wet Chemistry by Method 4500 CN E-2016 6

Wet Chemistry by Method 4500 S2 D-2011 7

Wet Chemistry by Method 9040C 8

Wet Chemistry by Method D93/1010A 9

Gl: Glossary of Terms 10

Al: Accreditations & Locations 11

Sc: Sample Chain of Custody 12

SAMPLE SUMMARY

2112302-001DEF LARGO NON-EXEMPT L1439094-01 GW

Collected by	Collected date/time	Received date/time
	12/02/21 11:00	12/07/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 4500 CN E-2016	WG1786016	1	12/08/21 19:31	12/14/21 16:07	KEG	Mt. Juliet, TN
Wet Chemistry by Method 4500 S2 D-2011	WG1786215	1	12/08/21 18:40	12/08/21 18:40	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG1788975	1	12/14/21 11:08	12/14/21 11:08	SCM	Mt. Juliet, TN
Wet Chemistry by Method D93/1010A	WG1786375	1	12/09/21 01:28	12/09/21 01:28	WOS	Mt. Juliet, TN

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

John Hawkins
Project Manager

Project Narrative

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

Wet Chemistry by Method 4500 CN E-2016

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Cyanide	ND		0.00500	1	12/14/2021 16:07	WG1786016

Wet Chemistry by Method 4500 S2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Sulfide	ND		0.0500	1	12/08/2021 18:40	WG1786215

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
Corrosivity by pH	5.90	T8	1	12/14/2021 11:08	WG1788975

Sample Narrative:

L1439094-01 WG1788975: 5.90 @ 16.82C

Wet Chemistry by Method D93/1010A

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	deg F			date / time	
Flashpoint	DNF at 170		1	12/09/2021 01:28	WG1786375

Method Blank (MB)

(MB) R3740601-1 12/14/21 15:42

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

L1438946-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1438946-01 12/14/21 15:54 • (DUP) R3740601-3 12/14/21 15:55

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

L1439131-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1439131-02 12/14/21 16:12 • (DUP) R3740601-8 12/14/21 16:13

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

Laboratory Control Sample (LCS)

(LCS) R3740601-2 12/14/21 15:43

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

L1438954-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1438954-01 12/14/21 15:58 • (MS) R3740601-4 12/14/21 15:59 • (MSD) R3740601-5 12/14/21 16:00

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	ND	0.0953	0.0935	95.3	93.5	1	90.0-110			1.91	20

L1439097-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1439097-01 12/14/21 16:08 • (MS) R3740601-6 12/14/21 16:09 • (MSD) R3740601-7 12/14/21 16:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	ND	0.0561	0.0898	56.1	89.8	1	90.0-110	J6	J3 J6	46.2	20

Method Blank (MB)

(MB) R3738621-1 12/08/21 18:36

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

L1439182-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1439182-01 12/08/21 18:41 • (DUP) R3738621-6 12/08/21 18:41

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

Laboratory Control Sample (LCS)

(LCS) R3738621-2 12/08/21 18:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Sulfide	0.500	0.473	94.6	85.0-115	

L1438954-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1438954-01 12/08/21 18:39 • (MS) R3738621-4 12/08/21 18:40 • (MSD) R3738621-5 12/08/21 18:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Sulfide	0.500	ND	1.87	1.87	373	374	1	80.0-120	E J5	E J5	0.321	20

L1436982-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1436982-01 12/14/21 10:37 • (DUP) R3740747-2 12/14/21 10:44

Analyte	Original Result su	DUP Result su	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Corrosivity by pH	7.60	7.84	1	3.11	J3	1

Sample Narrative:
OS: 7.60 @ 15.74C
DUP: 7.84 @ 16.05C

L1440772-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1440772-01 12/14/21 15:12 • (DUP) R3740747-3 12/14/21 15:24

Analyte	Original Result su	DUP Result su	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Corrosivity by pH	7.17	7.20	1	0.418		1

Sample Narrative:
OS: 7.17 @ 17.54C
DUP: 7.20 @ 17.42C

Laboratory Control Sample (LCS)

(LCS) R3740747-1 12/14/21 10:32

Analyte	Spike Amount su	LCS Result su	LCS Rec. %	Rec. Limits %	LCS Qualifier
Corrosivity by pH	10.0	9.96	99.6	99.0-101	

Sample Narrative:
LCS: 9.96 @ 18.57C

L1438851-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1438851-02 12/09/21 01:28 • (DUP) R3738668-3 12/09/21 01:28

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

L1439117-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1439117-02 12/09/21 01:28 • (DUP) R3738668-4 12/09/21 01:28

Analyte	Original Result deg F	DUP Result deg F	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Flashpoint	142	146	1	2.78		10

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

(LCS) R3738668-1 12/09/21 01:28 • (LCSD) R3738668-2 12/09/21 01:28

Analyte	Spike Amount deg F	LCS Result deg F	LCSD Result deg F	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Flashpoint	126	126	124	99.8	98.2	96.0-104			1.60	10

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

Received by OCD: 10/2/2023 3:49:18 PM

HALL ENVIRONMENTAL ANALYSIS LABORATORY

CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

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

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

L1439094

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2112302-001D	Largo Non-Exempt	500HDPE	Aqueous	12/2/2021 11:00:00 AM	1	RCI
2	2112302-001E	Largo Non-Exempt	500PLNAOH ZNAC	Aqueous	12/2/2021 11:00:00 AM	1	RCI
3	2112302-001F	Largo Non-Exempt	500PL-NaOH	Aqueous	12/2/2021 11:00:00 AM	1	RCI RCV >12

]-01

K215

Fed Ex 7754 0641 5309

Sample Receipt Checklist

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

SPECIAL INSTRUCTIONS / COMMENTS:

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

Relinquished By:	Date: 12/6/2021	Time: 10:11 AM	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date: 12-7-21	Time: 0930

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

REPORT TRANSMITTAL DESIRED:

☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY

BAA7

1.0+0.1=1.0 Temp of samples _____ °C Attempt to Cool? _____

Comments: _____

Released to Imaging: 10/2/2023 4:00:31 PM

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2112302**
07-Jan-22

Client: Souder, Miller and Associates
Project: Enterprise Largo CS

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **R84353** RunNo: **84353**
Prep Date: Analysis Date: **12/7/2021** SeqNo: **2963227** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	91.1	70	130			
Toluene	19	1.0	20.00	0	97.0	70	130			
Chlorobenzene	18	1.0	20.00	0	92.2	70	130			
1,1-Dichloroethene	18	1.0	20.00	0	87.9	70	130			
Trichloroethene (TCE)	17	1.0	20.00	0	84.1	70	130			
Surr: 1,2-Dichloroethane-d4	9.4		10.00		93.7	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	9.1		10.00		91.4	70	130			
Surr: Toluene-d8	9.6		10.00		96.5	70	130			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R84353** RunNo: **84353**
Prep Date: Analysis Date: **12/7/2021** SeqNo: **2963253** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2112302**
07-Jan-22

Client: Souder, Miller and Associates
Project: Enterprise Largo CS

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R84353**	RunNo: **84353**
Prep Date:	Analysis Date: **12/7/2021**	SeqNo: **2963253** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2112302**
07-Jan-22

Client: Souder, Miller and Associates
Project: Enterprise Largo CS

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R84353**	RunNo: **84353**
Prep Date:	Analysis Date: **12/7/2021**	SeqNo: **2963253** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.5		10.00		94.6	70	130			
Surr: 4-Bromofluorobenzene	9.4		10.00		94.0	70	130			
Surr: Dibromofluoromethane	9.4		10.00		93.7	70	130			
Surr: Toluene-d8	9.7		10.00		97.4	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2112302**
07-Jan-22

Client: Souder, Miller and Associates
Project: Enterprise Largo CS

Sample ID: **mb-64365** SampType: **MBLK** TestCode: **EPA Method 8270SIM**
Client ID: **PBW** Batch ID: **64365** RunNo: **84826**
Prep Date: **12/8/2021** Analysis Date: **12/28/2021** SeqNo: **2983676** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.10								
1-Methylnaphthalene	ND	0.10								
2-Methylnaphthalene	ND	0.10								
Acenaphthylene	ND	0.10								
Acenaphthene	ND	0.10								
Fluorene	ND	0.10								
Phenanthrene	ND	0.10								
Anthracene	ND	0.10								
Fluoranthene	ND	0.20								
Pyrene	ND	0.20								
Benz(a)anthracene	ND	0.10								
Chrysene	ND	0.10								
Benzo(b)fluoranthene	ND	0.10								
Benzo(k)fluoranthene	ND	0.10								
Benzo(a)pyrene	ND	0.070								
Dibenz(a,h)anthracene	ND	0.10								
Benzo(g,h,i)perylene	ND	0.10								
Indeno(1,2,3-cd)pyrene	ND	0.30								
Surr: Nitrobenzene-d5	2.6		4.000		64.0	21.9	89.8			
Surr: 2,4,6-Tribromophenol	4.7		8.000		59.0	23.4	71.6			
Surr: 2-Fluorobiphenyl	2.4		4.000		60.0	15	84.5			
Surr: 4-Terphenyl-d14	4.9		4.000		123	73.1	152			

Sample ID: **lcs-64365** SampType: **LCS** TestCode: **EPA Method 8270SIM**
Client ID: **LCSW** Batch ID: **64365** RunNo: **84826**
Prep Date: **12/8/2021** Analysis Date: **12/28/2021** SeqNo: **2983677** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.88	0.10	2.000	0	44.0	26.5	90.9			
1-Methylnaphthalene	0.86	0.10	2.000	0	43.0	27.9	88.2			
2-Methylnaphthalene	0.84	0.10	2.000	0	42.0	29.2	87.5			
Acenaphthylene	1.0	0.10	2.000	0	51.0	30	92.9			
Acenaphthene	0.96	0.10	2.000	0	48.0	25.6	93.9			
Fluorene	1.0	0.10	2.000	0	50.0	27.4	95.1			
Phenanthrene	1.1	0.10	2.000	0	54.0	25.1	104			
Anthracene	1.1	0.10	2.000	0	53.0	30.1	100			
Fluoranthene	1.7	0.20	2.000	0	87.0	41.6	126			
Pyrene	1.6	0.20	2.000	0	78.0	34.5	112			
Benz(a)anthracene	2.2	0.10	2.000	0	108	43.9	132			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2112302**
07-Jan-22

Client: Souder, Miller and Associates
Project: Enterprise Largo CS

Sample ID: **lcs-64365**	SampType: **LCS**	TestCode: **EPA Method 8270SIM**							
Client ID: **LCSW**	Batch ID: **64365**	RunNo: **84826**							
Prep Date: **12/8/2021**	Analysis Date: **12/28/2021**	SeqNo: **2983677**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chrysene	1.9	0.10	2.000	0	93.0	39.8	118			
Benzo(b)fluoranthene	1.9	0.10	2.000	0	96.0	37.2	134			
Benzo(k)fluoranthene	2.0	0.10	2.000	0	98.0	43.8	122			
Benzo(a)pyrene	1.9	0.070	2.000	0	95.0	36.6	122			
Dibenz(a,h)anthracene	1.9	0.10	2.000	0	93.0	35.5	129			
Benzo(g,h,i)perylene	1.8	0.10	2.000	0	92.0	39.4	120			
Indeno(1,2,3-cd)pyrene	2.1	0.30	2.000	0	104	24.9	150			
Surr: Nitrobenzene-d5	2.8		5.000		56.0	21.9	89.8			
Surr: 2,4,6-Tribromophenol	4.4		10.00		43.8	23.4	71.6			
Surr: 2-Fluorobiphenyl	2.7		5.000		54.0	15	84.5			
Surr: 4-Terphenyl-d14	5.8		5.000		116	73.1	152			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2112302**

07-Jan-22

Client: Souder, Miller and Associates

Project: Enterprise Largo CS

Sample ID: **MB-64441** SampType: **MBLK** TestCode: **EPA Method 7470A: Mercury**

Client ID: **PBW** Batch ID: **64441** RunNo: **84480**

Prep Date: **12/11/2021** Analysis Date: **12/13/2021** SeqNo: **2968622** Units: **mg/L**

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

Sample ID: **LCSLL-64441** SampType: **LCSLL** TestCode: **EPA Method 7470A: Mercury**

Client ID: **BatchQC** Batch ID: **64441** RunNo: **84480**

Prep Date: **12/11/2021** Analysis Date: **12/13/2021** SeqNo: **2968623** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020	0.0001500	0	76.3	50	150			

Sample ID: **LCS-64441** SampType: **LCS** TestCode: **EPA Method 7470A: Mercury**

Client ID: **LCSW** Batch ID: **64441** RunNo: **84480**

Prep Date: **12/11/2021** Analysis Date: **12/13/2021** SeqNo: **2968624** 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:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2112302**
07-Jan-22

Client: Souder, Miller and Associates
Project: Enterprise Largo CS

Sample ID: **MB-64364** SampType: **MBLK** TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW** Batch ID: **64364** RunNo: **84455**
Prep Date: **12/7/2021** Analysis Date: **12/9/2021** SeqNo: **2966812** Units: **mg/L**

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

Sample ID: **LCS-64364** SampType: **LCS** TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW** Batch ID: **64364** RunNo: **84455**
Prep Date: **12/7/2021** Analysis Date: **12/9/2021** SeqNo: **2966814** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.50	0.030	0.5000	0	100	80	120			
Barium	0.49	0.0020	0.5000	0	97.8	80	120			
Cadmium	0.49	0.0020	0.5000	0	98.2	80	120			
Chromium	0.49	0.0060	0.5000	0	97.8	80	120			
Lead	0.48	0.020	0.5000	0	96.9	80	120			
Selenium	0.49	0.050	0.5000	0	98.4	80	120			
Silver	0.10	0.0050	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Souder, Miller and Associates

Work Order Number: 2112302

RcptNo: 1

Received By: **Sean Livingston** 12/3/2021 8:00:00 AM Sean Livingston

Completed By: **Sean Livingston** 12/6/2021 10:03:57 AM Sean Livingston

Reviewed By: JR 12/6/21

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

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

# of preserved bottles checked for pH: 1 2 (<2 or >12 unless noted)
Adjusted? NO
Checked by: KPG 12/06/21

Special Handling (if applicable)

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

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

16. Additional remarks: Zinc Acetate/sodium Hydroxide did not pH. 001E - KPG 12/06/21

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.6	Good				

Released to Imaging: 10/2/2023 4:00:31 PM
Received by OCD: 10/2/2023 3:49:18 PM

Chain-of-Custody Record

Client: Souder, Miller & Associates

Mailing Address: 401 W. Broadway
Farmington, NM 87401

Phone #: (505) 325-7535

email or Fax#: Ashley.Maxwell@soudermiller.com
tjlong@eprod.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: Enterprise Largo CS

Project #:

Project Manager: Ashley Maxwell

Sampler: Heather Woods

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 2.7-0.1=2.6 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2112302	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	RCI
12/2/21	1100	Aq	Largo Non-Exempt	(1) 1L Amber	Non	001					X	X		X			X
				(3) 40mL VOA	$HgCl_2$										Do	Hold Not Run	
				(1) 125mL Plastic	HNO_3												
				(1) 125mL Plastic	zinc acetate / NaOH												
				(1) 125mL Plastic	NaOH												
				(1) 125mL Plastic	Non												

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
12/2/21	1811	Heather M. Woods			12/2/21	1811
			See courier		12/3/21	8:00

Remarks:
TCLP compounds at TCLP Limits
Invoice Enterprise CC Tom Long

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

February 28, 2022

Ashley Maxwell

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

RE: Enterprise Dolores Station OrderNo.: 2202256

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/5/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2202256**
Date Reported: **2/28/2022**

CLIENT: Souder, Miller and Associates
Client Sample ID: Non-Exempt Tank
Project: Enterprise Dolores Station
Collection Date: 2/3/2022 12:20:00 PM
Lab ID: 2202256-001 **Matrix:** AQUEOUS **Received Date:** 2/5/2022 8:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 6020A: TOTAL METALS						Analyst: **DBK**	
Arsenic	ND	0.0010		mg/L	1	2/16/2022 4:56:20 PM	65487
Lead	ND	0.0010		mg/L	1	2/16/2022 4:56:20 PM	65487
Selenium	ND	0.0010		mg/L	1	2/16/2022 4:56:20 PM	65487
EPA METHOD 7470A: MERCURY						Analyst: **VP**	
Mercury	ND	0.00020		mg/L	1	2/15/2022 9:02:39 AM	65535
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **JLF**	
Barium	0.10	0.0020		mg/L	1	2/16/2022 4:13:36 PM	65487
Cadmium	ND	0.0020		mg/L	1	2/16/2022 4:13:36 PM	65487
Chromium	ND	0.0060		mg/L	1	2/16/2022 4:13:36 PM	65487
Silver	ND	0.0050		mg/L	1	2/16/2022 5:13:57 PM	65487
EPA METHOD 8270SIM						Analyst: **DAM**	
Naphthalene	ND	0.10		µg/L	1	2/15/2022 10:54:00 PM	65452
1-Methylnaphthalene	ND	0.10		µg/L	1	2/15/2022 10:54:00 PM	65452
2-Methylnaphthalene	ND	0.10		µg/L	1	2/15/2022 10:54:00 PM	65452
Acenaphthylene	ND	0.10		µg/L	1	2/15/2022 10:54:00 PM	65452
Acenaphthene	ND	0.10		µg/L	1	2/15/2022 10:54:00 PM	65452
Fluorene	ND	0.10		µg/L	1	2/15/2022 10:54:00 PM	65452
Phenanthrene	ND	0.10		µg/L	1	2/15/2022 10:54:00 PM	65452
Anthracene	ND	0.10		µg/L	1	2/15/2022 10:54:00 PM	65452
Fluoranthene	ND	0.20		µg/L	1	2/15/2022 10:54:00 PM	65452
Pyrene	ND	0.20		µg/L	1	2/15/2022 10:54:00 PM	65452
Benz(a)anthracene	ND	0.10		µg/L	1	2/15/2022 10:54:00 PM	65452
Chrysene	ND	0.10		µg/L	1	2/15/2022 10:54:00 PM	65452
Benzo(b)fluoranthene	ND	0.10		µg/L	1	2/15/2022 10:54:00 PM	65452
Benzo(k)fluoranthene	ND	0.10		µg/L	1	2/15/2022 10:54:00 PM	65452
Benzo(a)pyrene	ND	0.070		µg/L	1	2/15/2022 10:54:00 PM	65452
Dibenz(a,h)anthracene	ND	0.10		µg/L	1	2/15/2022 10:54:00 PM	65452
Benzo(g,h,i)perylene	ND	0.10		µg/L	1	2/15/2022 10:54:00 PM	65452
Indeno(1,2,3-cd)pyrene	ND	0.30		µg/L	1	2/15/2022 10:54:00 PM	65452
Surr: Nitrobenzene-d5	47.0	21.9-89.8		%Rec	1	2/15/2022 10:54:00 PM	65452
Surr: 2-Fluorobiphenyl	43.0	15-84.5		%Rec	1	2/15/2022 10:54:00 PM	65452
Surr: 4-Terphenyl-d14	80.0	73.1-152		%Rec	1	2/15/2022 10:54:00 PM	65452
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
Benzene	ND	0.50		mg/L	200	2/9/2022 2:00:25 AM	R85694
Toluene	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
Ethylbenzene	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
Methyl tert-butyl ether (MTBE)	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694

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

Qualifiers:

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

Analytical Report
Lab Order **2202256**
Date Reported: **2/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Non-Exempt Tank
Project: Enterprise Dolores Station
Collection Date: 2/3/2022 12:20:00 PM
Lab ID: 2202256-001 **Matrix:** AQUEOUS **Received Date:** 2/5/2022 8:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
1,2,4-Trimethylbenzene	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
1,3,5-Trimethylbenzene	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
1,2-Dichloroethane (EDC)	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
1,2-Dibromoethane (EDB)	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
Naphthalene	ND	0.40		mg/L	200	2/9/2022 2:00:25 AM	R85694
1-Methylnaphthalene	ND	0.80		mg/L	200	2/9/2022 2:00:25 AM	R85694
2-Methylnaphthalene	ND	0.80		mg/L	200	2/9/2022 2:00:25 AM	R85694
Acetone	ND	2.0		mg/L	200	2/9/2022 2:00:25 AM	R85694
Bromobenzene	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
Bromodichloromethane	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
Bromoform	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
Bromomethane	ND	0.60		mg/L	200	2/9/2022 2:00:25 AM	R85694
2-Butanone	ND	2.0		mg/L	200	2/9/2022 2:00:25 AM	R85694
Carbon disulfide	ND	2.0		mg/L	200	2/9/2022 2:00:25 AM	R85694
Carbon Tetrachloride	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
Chlorobenzene	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
Chloroethane	ND	0.40		mg/L	200	2/9/2022 2:00:25 AM	R85694
Chloroform	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
Chloromethane	ND	0.60		mg/L	200	2/9/2022 2:00:25 AM	R85694
2-Chlorotoluene	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
4-Chlorotoluene	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
cis-1,2-DCE	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
cis-1,3-Dichloropropene	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
1,2-Dibromo-3-chloropropane	ND	0.40		mg/L	200	2/9/2022 2:00:25 AM	R85694
Dibromochloromethane	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
Dibromomethane	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
1,2-Dichlorobenzene	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
1,3-Dichlorobenzene	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
1,4-Dichlorobenzene	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
Dichlorodifluoromethane	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
1,1-Dichloroethane	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
1,1-Dichloroethene	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
1,2-Dichloropropane	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
1,3-Dichloropropane	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
2,2-Dichloropropane	ND	0.40		mg/L	200	2/9/2022 2:00:25 AM	R85694
1,1-Dichloropropene	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
Hexachlorobutadiene	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
2-Hexanone	ND	2.0		mg/L	200	2/9/2022 2:00:25 AM	R85694
Isopropylbenzene	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694

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

Qualifiers:

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

Analytical Report
Lab Order **2202256**
Date Reported: **2/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Non-Exempt Tank
Project: Enterprise Dolores Station
Collection Date: 2/3/2022 12:20:00 PM
Lab ID: 2202256-001 **Matrix:** AQUEOUS **Received Date:** 2/5/2022 8:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
4-Isopropyltoluene	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
4-Methyl-2-pentanone	ND	2.0		mg/L	200	2/9/2022 2:00:25 AM	R85694
Methylene Chloride	ND	0.60		mg/L	200	2/9/2022 2:00:25 AM	R85694
n-Butylbenzene	ND	0.60		mg/L	200	2/9/2022 2:00:25 AM	R85694
n-Propylbenzene	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
sec-Butylbenzene	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
Styrene	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
tert-Butylbenzene	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
1,1,1,2-Tetrachloroethane	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
1,1,2,2-Tetrachloroethane	ND	0.40		mg/L	200	2/9/2022 2:00:25 AM	R85694
Tetrachloroethene (PCE)	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
trans-1,2-DCE	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
trans-1,3-Dichloropropene	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
1,2,3-Trichlorobenzene	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
1,2,4-Trichlorobenzene	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
1,1,1-Trichloroethane	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
1,1,2-Trichloroethane	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
Trichloroethene (TCE)	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
Trichlorofluoromethane	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
1,2,3-Trichloropropane	ND	0.40		mg/L	200	2/9/2022 2:00:25 AM	R85694
Vinyl chloride	ND	0.20		mg/L	200	2/9/2022 2:00:25 AM	R85694
Xylenes, Total	ND	0.30		mg/L	200	2/9/2022 2:00:25 AM	R85694
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	200	2/9/2022 2:00:25 AM	R85694
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	200	2/9/2022 2:00:25 AM	R85694
Surr: Dibromofluoromethane	105	70-130		%Rec	200	2/9/2022 2:00:25 AM	R85694
Surr: Toluene-d8	108	70-130		%Rec	200	2/9/2022 2:00:25 AM	R85694

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

Qualifiers:

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

Pace Analytical®

ANALYTICAL REPORT

February 14, 2022

Hall Environmental Analysis Laboratory

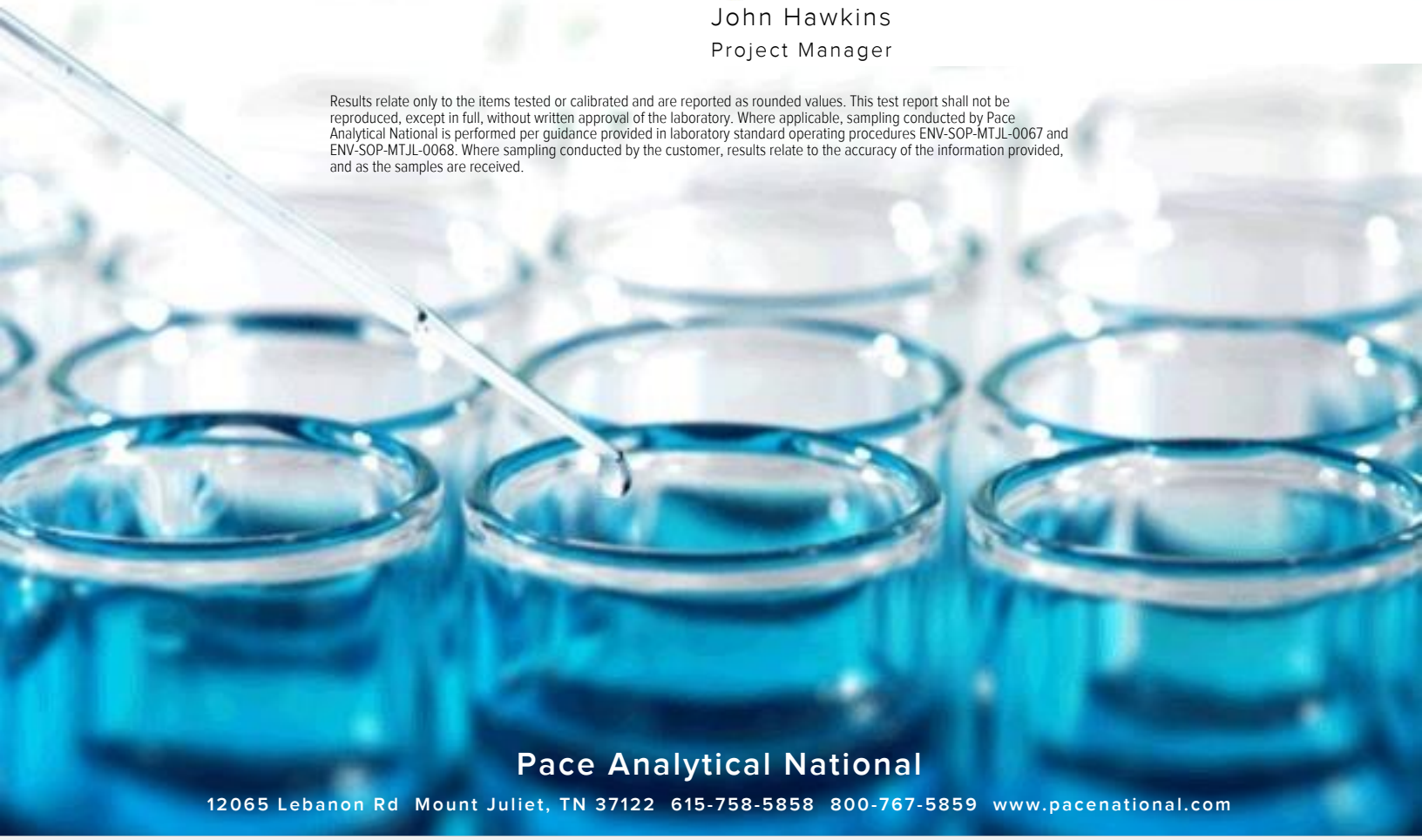
Sample Delivery Group:	L1458551
Samples Received:	02/08/2022
Project Number:	
Description:	

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

Entire Report Reviewed By:

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

TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

2202256-001 NON-EXEMPT TANK L1458551-01 5

Qc: Quality Control Summary 6

Wet Chemistry by Method 4500 CN E-2016 6

Wet Chemistry by Method 4500 S2 D-2011 7

Wet Chemistry by Method 4500H+ B-2011 8

Wet Chemistry by Method D93/1010A 9

Gl: Glossary of Terms 10

Al: Accreditations & Locations 11

Sc: Sample Chain of Custody 12

SAMPLE SUMMARY

2202256-001 NON-EXEMPT TANK L1458551-01 WW

Collected by	Collected date/time	Received date/time
	02/03/22 12:20	02/08/22 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 4500 CN E-2016	WG1814376	1	02/08/22 22:31	02/09/22 16:15	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500 S2 D-2011	WG1814577	1	02/08/22 18:09	02/08/22 18:09	SMW	Mt. Juliet, TN
Wet Chemistry by Method 4500H+ B-2011	WG1815976	1	02/10/22 14:00	02/10/22 14:00	GI	Mt. Juliet, TN
Wet Chemistry by Method D93/1010A	WG1814893	1	02/09/22 00:00	02/09/22 00:00	WOS	Mt. Juliet, TN

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

John Hawkins
Project Manager

Project Narrative

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

Wet Chemistry by Method 4500 CN E-2016

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Cyanide	ND		0.00500	1	02/09/2022 16:15	WG1814376

Wet Chemistry by Method 4500 S2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Sulfide	ND		0.0500	1	02/08/2022 18:09	WG1814577

Wet Chemistry by Method 4500H+ B-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
Corrosivity by pH	7.80	T8	1	02/10/2022 14:00	WG1815976

Sample Narrative:

L1458551-01 WG1815976: 7.8 at 17.8C

Wet Chemistry by Method D93/1010A

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	deg F			date / time	
Flashpoint	DNF at 170		1	02/09/2022 00:00	WG1814893

Method Blank (MB)

(MB) R3758574-1 02/09/22 15:54

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

L1458076-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1458076-02 02/09/22 16:01 • (DUP) R3758574-3 02/09/22 16:02

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

L1458551-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1458551-01 02/09/22 16:15 • (DUP) R3758574-6 02/09/22 16:16

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

Laboratory Control Sample (LCS)

(LCS) R3758574-2 02/09/22 15:55

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

L1458427-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1458427-01 02/09/22 16:06 • (MS) R3758574-4 02/09/22 16:07 • (MSD) R3758574-5 02/09/22 16:08

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	ND	0.0960	0.0995	96.0	99.5	1	90.0-110			3.58	20

L1458551-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1458551-01 02/09/22 16:15 • (MS) R3758574-7 02/09/22 16:19 • (MSD) R3758574-8 02/09/22 16:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	ND	0.101	0.0985	101	98.5	1	90.0-110			2.51	20

Method Blank (MB)

(MB) R3758155-1 02/08/22 18:00

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

L1458554-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1458554-01 02/08/22 18:10 • (DUP) R3758155-5 02/08/22 18:10

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

Laboratory Control Sample (LCS)

(LCS) R3758155-2 02/08/22 18:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Sulfide	0.500	0.488	97.6	85.0-115	

L1458454-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1458454-03 02/08/22 18:02 • (MS) R3758155-3 02/08/22 18:05 • (MSD) R3758155-4 02/08/22 18:05

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Sulfide	0.500	ND	0.363	0.362	72.6	72.4	1	80.0-120	J6	J6	0.276	20

Received by OCD: 10/2/2023 3:49:18 PM

Wet Chemistry by Method 4500H+ B-2011

L1458551-01

Laboratory Control Sample (LCS)

(LCS) R3758938-1 02/10/22 14:00

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

Sample Narrative:

LCS: 9.99 at 19.3C

Released to Imaging: 10/2/2023 4:00:31 PM

L1458551-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1458551-01 02/09/22 00:00 • (DUP) R3758603-3 02/09/22 00:00

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

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

(LCS) R3758603-1 02/09/22 00:00 • (LCSD) R3758603-2 02/09/22 00:00

Analyte	Spike Amount deg F	LCS Result deg F	LCSD Result deg F	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Flashpoint	126	128	126	102	99.9	96.0-104			1.58	10

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

A131

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

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

L1458551

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2202256-001D	Non-Exempt Tank	500HDPE	Aqueous	2/3/2022 12:20:00 PM	1	RCI -01
2	2202256-001E	Non-Exempt Tank	500PLNAOH ZNAC	Aqueous	2/3/2022 12:20:00 PM	1	RCI -01
3	2202256-001F	Non-Exempt Tank	500PL-NaOH	Aqueous	2/3/2022 12:20:00 PM	1	RCI -01

Sample Receipt Checklist

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

WSAT
5.1+0.5-1

5528 5947 9834

SPECIAL INSTRUCTIONS / COMMENTS:

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

Relinquished By:	Date: 2/7/2022	Time: 8:32 AM	Received By:	Date: 2/8/22	Time: 0945
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

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

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

FOR LAB USE ONLY
Temp of samples _____ °C Attempt to Cool ? _____
Comments: _____

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2202256**

28-Feb-22

Client: Souder, Miller and Associates

Project: Enterprise Dolores Station

Sample ID: **MB-65487**	SampType: **MBLK**	TestCode: **EPA Method 6020A: Total Metals**
Client ID: **PBW**	Batch ID: **65487**	RunNo: **85781**
Prep Date: **2/10/2022**	Analysis Date: **2/11/2022**	SeqNo: **3020205** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Lead	ND	0.0010								
Selenium	ND	0.0010								

Sample ID: **MSLLLCS-65487**	SampType: **LCSLL**	TestCode: **EPA Method 6020A: Total Metals**
Client ID: **BatchQC**	Batch ID: **65487**	RunNo: **85781**
Prep Date: **2/10/2022**	Analysis Date: **2/11/2022**	SeqNo: **3020206** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010	0.001000	0	91.4	70	130			
Lead	ND	0.0010	0.001000	0	91.6	70	130			
Selenium	ND	0.0010	0.001000	0	98.6	70	130			

Sample ID: **MSLCS-65487**	SampType: **LCS**	TestCode: **EPA Method 6020A: Total Metals**
Client ID: **LCSW**	Batch ID: **65487**	RunNo: **85781**
Prep Date: **2/10/2022**	Analysis Date: **2/11/2022**	SeqNo: **3020209** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.049	0.0010	0.05000	0	97.4	80	120			
Lead	0.047	0.0010	0.05000	0	93.9	80	120			
Selenium	0.051	0.0010	0.05000	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2202256**
28-Feb-22

Client: Souder, Miller and Associates
Project: Enterprise Dolores Station

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**						
Client ID: **LCSW**	Batch ID: **R85654**	RunNo: **85654**						
Prep Date:	Analysis Date: **2/7/2022**	SeqNo: **3015514**	Units: **%Rec**					

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	9.6		10.00		96.3	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		111	70	130			
Surr: Dibromofluoromethane	9.6		10.00		96.0	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**						
Client ID: **PBW**	Batch ID: **R85654**	RunNo: **85654**						
Prep Date:	Analysis Date: **2/7/2022**	SeqNo: **3015537**	Units: **%Rec**					

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	10		10.00		103	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		109	70	130			
Surr: Dibromofluoromethane	9.9		10.00		99.2	70	130			
Surr: Toluene-d8	10		10.00		105	70	130			

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**						
Client ID: **LCSW**	Batch ID: **R85694**	RunNo: **85694**						
Prep Date:	Analysis Date: **2/8/2022**	SeqNo: **3017007**	Units: **µg/L**					

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	99.0	70	130			
Toluene	20	1.0	20.00	0	100	70	130			
Chlorobenzene	20	1.0	20.00	0	99.1	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	102	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	99.3	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		105	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		108	70	130			
Surr: Dibromofluoromethane	11		10.00		107	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**						
Client ID: **PBW**	Batch ID: **R85694**	RunNo: **85694**						
Prep Date:	Analysis Date: **2/8/2022**	SeqNo: **3017034**	Units: **µg/L**					

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2202256**
28-Feb-22

Client: Souder, Miller and Associates
Project: Enterprise Dolores Station

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R85694**	RunNo: **85694**
Prep Date:	Analysis Date: **2/8/2022**	SeqNo: **3017034** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2202256**
28-Feb-22

Client: Souder, Miller and Associates
Project: Enterprise Dolores Station

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R85694**	RunNo: **85694**
Prep Date:	Analysis Date: **2/8/2022**	SeqNo: **3017034** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		109	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		109	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	11		10.00		105	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2202256**
28-Feb-22

Client: Souder, Miller and Associates
Project: Enterprise Dolores Station

Sample ID: **mb-65452** SampType: **MBLK** TestCode: **EPA Method 8270SIM**
Client ID: **PBW** Batch ID: **65452** RunNo: **85852**
Prep Date: **2/9/2022** Analysis Date: **2/15/2022** SeqNo: **3023178** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.10								
1-Methylnaphthalene	ND	0.10								
2-Methylnaphthalene	ND	0.10								
Acenaphthylene	ND	0.10								
Acenaphthene	ND	0.10								
Fluorene	ND	0.10								
Phenanthrene	ND	0.10								
Anthracene	ND	0.10								
Fluoranthene	ND	0.20								
Pyrene	ND	0.20								
Benz(a)anthracene	ND	0.10								
Chrysene	ND	0.10								
Benzo(b)fluoranthene	ND	0.10								
Benzo(k)fluoranthene	ND	0.10								
Benzo(a)pyrene	ND	0.070								
Dibenz(a,h)anthracene	ND	0.10								
Benzo(g,h,i)perylene	ND	0.10								
Indeno(1,2,3-cd)pyrene	ND	0.30								
Surr: Nitrobenzene-d5	2.3		4.000		57.5	21.9	89.8			
Surr: 2,4,6-Tribromophenol	3.9		8.000		49.0	23.4	71.6			
Surr: 2-Fluorobiphenyl	2.2		4.000		55.5	15	84.5			
Surr: 4-Terphenyl-d14	3.3		4.000		82.5	73.1	152			

Sample ID: **lcs-65452** SampType: **LCS** TestCode: **EPA Method 8270SIM**
Client ID: **LCSW** Batch ID: **65452** RunNo: **85852**
Prep Date: **2/9/2022** Analysis Date: **2/15/2022** SeqNo: **3023179** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	1.1	0.10	2.000	0	56.0	26.5	90.9			
1-Methylnaphthalene	1.1	0.10	2.000	0	56.0	27.9	88.2			
2-Methylnaphthalene	1.1	0.10	2.000	0	55.0	29.2	87.5			
Acenaphthylene	1.3	0.10	2.000	0	65.0	30	92.9			
Acenaphthene	1.2	0.10	2.000	0	62.0	25.6	93.9			
Fluorene	1.3	0.10	2.000	0	65.0	27.4	95.1			
Phenanthrene	1.4	0.10	2.000	0	70.0	25.1	104			
Anthracene	1.4	0.10	2.000	0	70.0	30.1	100			
Fluoranthene	1.7	0.20	2.000	0	85.0	41.6	126			
Pyrene	1.6	0.20	2.000	0	81.0	34.5	112			
Benz(a)anthracene	1.8	0.10	2.000	0	88.0	43.9	132			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2202256**
28-Feb-22

Client: Souder, Miller and Associates
Project: Enterprise Dolores Station

Sample ID: **lcs-65452** SampType: **LCS** TestCode: **EPA Method 8270SIM**
Client ID: **LCSW** Batch ID: **65452** RunNo: **85852**
Prep Date: **2/9/2022** Analysis Date: **2/15/2022** SeqNo: **3023179** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chrysene	1.5	0.10	2.000	0	77.0	39.8	118			
Benzo(b)fluoranthene	1.7	0.10	2.000	0	86.0	37.2	134			
Benzo(k)fluoranthene	1.6	0.10	2.000	0	82.0	43.8	122			
Benzo(a)pyrene	1.6	0.070	2.000	0	81.0	36.6	122			
Dibenz(a,h)anthracene	1.7	0.10	2.000	0	85.0	35.5	129			
Benzo(g,h,i)perylene	1.6	0.10	2.000	0	81.0	39.4	120			
Indeno(1,2,3-cd)pyrene	1.8	0.30	2.000	0	88.0	24.9	150			
Surr: Nitrobenzene-d5	3.9		5.000		78.8	21.9	89.8			
Surr: 2,4,6-Tribromophenol	6.7		10.00		67.2	23.4	71.6			
Surr: 2-Fluorobiphenyl	3.4		5.000		67.6	15	84.5			
Surr: 4-Terphenyl-d14	5.4		5.000		108	73.1	152			

Sample ID: **lcsd-65452** SampType: **LCSD** TestCode: **EPA Method 8270SIM**
Client ID: **LCSS02** Batch ID: **65452** RunNo: **85852**
Prep Date: **2/9/2022** Analysis Date: **2/15/2022** SeqNo: **3023180** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	1.1	0.10	2.000	0	54.0	26.5	90.9	3.64	37.6	
1-Methylnaphthalene	1.1	0.10	2.000	0	53.0	27.9	88.2	5.50	33.1	
2-Methylnaphthalene	1.1	0.10	2.000	0	53.0	29.2	87.5	3.70	35.4	
Acenaphthylene	1.2	0.10	2.000	0	60.0	30	92.9	8.00	31.7	
Acenaphthene	1.2	0.10	2.000	0	58.0	25.6	93.9	6.67	36.3	
Fluorene	1.2	0.10	2.000	0	61.0	27.4	95.1	6.35	32.2	
Phenanthrene	1.3	0.10	2.000	0	67.0	25.1	104	4.38	32.9	
Anthracene	1.3	0.10	2.000	0	67.0	30.1	100	4.38	31.5	
Fluoranthene	1.6	0.20	2.000	0	82.0	41.6	126	3.59	26.5	
Pyrene	1.5	0.20	2.000	0	75.0	34.5	112	7.69	23.3	
Benz(a)anthracene	1.6	0.10	2.000	0	82.0	43.9	132	7.06	29.5	
Chrysene	1.4	0.10	2.000	0	72.0	39.8	118	6.71	22.3	
Benzo(b)fluoranthene	1.6	0.10	2.000	0	81.0	37.2	134	5.99	25.2	
Benzo(k)fluoranthene	1.6	0.10	2.000	0	78.0	43.8	122	5.00	23.1	
Benzo(a)pyrene	1.5	0.070	2.000	0	77.0	36.6	122	5.06	22.4	
Dibenz(a,h)anthracene	1.6	0.10	2.000	0	78.0	35.5	129	8.59	23.7	
Benzo(g,h,i)perylene	1.5	0.10	2.000	0	74.0	39.4	120	9.03	22.9	
Indeno(1,2,3-cd)pyrene	1.6	0.30	2.000	0	80.0	24.9	150	9.52	26.6	
Surr: Nitrobenzene-d5	3.4		5.000		67.6	21.9	89.8	0	0	
Surr: 2,4,6-Tribromophenol	5.8		10.00		58.2	23.4	71.6	0	0	
Surr: 2-Fluorobiphenyl	2.9		5.000		57.6	15	84.5	0	0	
Surr: 4-Terphenyl-d14	4.8		5.000		96.0	73.1	152	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2202256**
28-Feb-22

Client: Souder, Miller and Associates
Project: Enterprise Dolores Station

Sample ID: **MB-65535** SampType: **MBLK** TestCode: **EPA Method 7470A: Mercury**
Client ID: **PBW** Batch ID: **65535** RunNo: **85827**
Prep Date: **2/14/2022** Analysis Date: **2/15/2022** SeqNo: **3022443** Units: **mg/L**

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

Sample ID: **LCSLL-65535** SampType: **LCSLL** TestCode: **EPA Method 7470A: Mercury**
Client ID: **BatchQC** Batch ID: **65535** RunNo: **85827**
Prep Date: **2/14/2022** Analysis Date: **2/15/2022** SeqNo: **3022444** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020	0.0001501	0	119	50	150			

Sample ID: **LCS-65535** SampType: **LCS** TestCode: **EPA Method 7470A: Mercury**
Client ID: **LCSW** Batch ID: **65535** RunNo: **85827**
Prep Date: **2/14/2022** Analysis Date: **2/15/2022** SeqNo: **3022445** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0050	0.00020	0.005000	0	99.9	85	115			

Sample ID: **2202256-001CMS** SampType: **MS** TestCode: **EPA Method 7470A: Mercury**
Client ID: **Non-Exempt Tank** Batch ID: **65535** RunNo: **85827**
Prep Date: **2/14/2022** Analysis Date: **2/15/2022** SeqNo: **3022455** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0052	0.00020	0.005000	0	103	75	125			

Sample ID: **2202256-001CMSD** SampType: **MSD** TestCode: **EPA Method 7470A: Mercury**
Client ID: **Non-Exempt Tank** Batch ID: **65535** RunNo: **85827**
Prep Date: **2/14/2022** Analysis Date: **2/15/2022** SeqNo: **3022456** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0054	0.00020	0.005000	0	108	75	125	4.42	20	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2202256**

28-Feb-22

Client: Souder, Miller and Associates

Project: Enterprise Dolores Station

Sample ID: **MB-65487**	SampType: **MBLK**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW**	Batch ID: **65487**	RunNo: **85885**
Prep Date: **2/10/2022**	Analysis Date: **2/16/2022**	SeqNo: **3024307** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								

Sample ID: **LCS-65487**	SampType: **LCS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW**	Batch ID: **65487**	RunNo: **85885**
Prep Date: **2/10/2022**	Analysis Date: **2/16/2022**	SeqNo: **3024309** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.48	0.0020	0.5000	0	96.1	80	120			
Cadmium	0.48	0.0020	0.5000	0	95.3	80	120			
Chromium	0.48	0.0060	0.5000	0	96.1	80	120			

Sample ID: **MB-65487**	SampType: **MBLK**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW**	Batch ID: **65487**	RunNo: **85885**
Prep Date: **2/10/2022**	Analysis Date: **2/16/2022**	SeqNo: **3024342** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	ND	0.0050								

Sample ID: **LCS-65487**	SampType: **LCS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW**	Batch ID: **65487**	RunNo: **85885**
Prep Date: **2/10/2022**	Analysis Date: **2/16/2022**	SeqNo: **3024344** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.10	0.0050	0.1000	0	101	80	120			

Qualifiers:

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B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Souder, Miller and Associates

Work Order Number: 2202256

RcptNo: 1

Received By: Cheyenne Cason 2/5/2022 8:50:00 AM

Completed By: Sean Livingston 2/7/2022 8:27:00 AM

Reviewed By: DAD 02/07/22

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

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

# of preserved bottles checked for pH: 1 2 (<2 or >12 unless noted)

Adjusted? N/O

Checked by: JR 2/7/22

Special Handling (if applicable)

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

Person Notified: ____ Date: ____

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

Regarding: ____

Client Instructions: ____

16. Additional remarks: Sample 001E did not ph. JR 2/7/22.

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.7	Good				

Page 567 of 673

Chain-of-Custody Record

Client: Souder, Miller & Associates

Mailing Address: 401 West Broadway
Farmington, NM 87401

Phone #: (505)325-7535

email or Fax#: Ashley.Maxwell@Soudermiller.com

QA/QC Package: tjlong@eprod.com
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Enterprise Dolores Station

Project #:

Project Manager: Ashley Maxwell

Sampler: Heather Woods

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.8-0.1=1.7 (°C)

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2202256
2/3/22	1220	Aq	Non-Exempt Tank	(1) 1L Amber	Non	001
				(3) 40mL VoA	HgCl2	
				(1) 125mL Plastic	HNO3	
				(1) 125mL Plastic	zinc acetate NaOH	
				(1) 125mL Plastic	NaOH	
				(1) 125mL Plastic	Non	

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals TCLP	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA) Full	8270 (Semi-VOA)	Total Coliform (Present/Absent)	RCI
				X	X		X			X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
2/3/22	1706	Heather M. Woods	Christa Waal		2/4/22	1706
2/4/22	1552	Christa Waal	Cam Cram		2/6/22	0850

Remarks:
TCLP compounds at TCLP Limits
Invoice Enterprise CC Tom Long

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

Received by OCD: 10/2/2023 3:49:18 PM

Released to Imaging: 10/2/2023 4:00:31 PM

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

August 29, 2022

Heather Woods

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

RE: Kutz OrderNo.: 2208585

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/10/2022 for the analyses presented in the following report.

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

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

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

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2208585**
Date Reported: **8/29/2022**

CLIENT: Souder, Miller and Associates
Client Sample ID: Non-Exempt BGT
Project: Kutz
Collection Date: 8/9/2022 3:10:00 PM
Lab ID: 2208585-001 **Matrix:** AQUEOUS **Received Date:** 8/10/2022 6:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 7470A: MERCURY						Analyst: **VP**	
Mercury	ND	0.020		mg/L	1	8/17/2022 11:23:58 AM	69542
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **JRR**	
Arsenic	ND	5.0		mg/L	1	8/18/2022 2:23:30 PM	69406
Barium	ND	100		mg/L	1	8/18/2022 2:23:30 PM	69406
Cadmium	ND	1.0		mg/L	1	8/18/2022 2:23:30 PM	69406
Chromium	ND	5.0		mg/L	1	8/18/2022 2:23:30 PM	69406
Lead	ND	5.0		mg/L	1	8/18/2022 2:23:30 PM	69406
Selenium	ND	1.0		mg/L	1	8/18/2022 4:16:44 PM	69406
Silver	ND	5.0		mg/L	1	8/24/2022 10:20:05 AM	69406
EPA METHOD 8270SIM						Analyst: **DAM**	
Naphthalene	ND	30	D	µg/L	10	8/17/2022 10:16:00 PM	69416
1-Methylnaphthalene	ND	30	D	µg/L	10	8/17/2022 10:16:00 PM	69416
2-Methylnaphthalene	ND	30	D	µg/L	10	8/17/2022 10:16:00 PM	69416
Acenaphthylene	ND	30	D	µg/L	10	8/17/2022 10:16:00 PM	69416
Acenaphthene	ND	30	D	µg/L	10	8/17/2022 10:16:00 PM	69416
Fluorene	ND	30	D	µg/L	10	8/17/2022 10:16:00 PM	69416
Phenanthrene	ND	30	D	µg/L	10	8/17/2022 10:16:00 PM	69416
Anthracene	ND	30	D	µg/L	10	8/17/2022 10:16:00 PM	69416
Fluoranthene	ND	30	D	µg/L	10	8/17/2022 10:16:00 PM	69416
Pyrene	ND	100	D	µg/L	10	8/17/2022 10:16:00 PM	69416
Benz(a)anthracene	ND	30	D	µg/L	10	8/17/2022 10:16:00 PM	69416
Chrysene	ND	30	D	µg/L	10	8/17/2022 10:16:00 PM	69416
Benzo(b)fluoranthene	ND	30	D	µg/L	10	8/17/2022 10:16:00 PM	69416
Benzo(k)fluoranthene	ND	30	D	µg/L	10	8/17/2022 10:16:00 PM	69416
Benzo(a)pyrene	ND	30	D	µg/L	10	8/17/2022 10:16:00 PM	69416
Dibenz(a,h)anthracene	ND	30	D	µg/L	10	8/17/2022 10:16:00 PM	69416
Benzo(g,h,i)perylene	ND	30	D	µg/L	10	8/17/2022 10:16:00 PM	69416
Indeno(1,2,3-cd)pyrene	ND	30	D	µg/L	10	8/17/2022 10:16:00 PM	69416
Surr: Nitrobenzene-d5	0	31.6-100	SD	%Rec	10	8/17/2022 10:16:00 PM	69416
Surr: 2-Fluorobiphenyl	0	26.7-90.1	SD	%Rec	10	8/17/2022 10:16:00 PM	69416
Surr: 4-Terphenyl-d14	0	72.3-147	SD	%Rec	10	8/17/2022 10:16:00 PM	69416
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	0.21	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
Toluene	0.64	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
Ethylbenzene	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
Methyl tert-butyl ether (MTBE)	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
1,2,4-Trimethylbenzene	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
1,3,5-Trimethylbenzene	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
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Analytical Report
Lab Order **2208585**
Date Reported: **8/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Non-Exempt BGT
Project: Kutz
Collection Date: 8/9/2022 3:10:00 PM
Lab ID: 2208585-001 **Matrix:** AQUEOUS **Received Date:** 8/10/2022 6:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
1,2-Dichloroethane (EDC)	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
1,2-Dibromoethane (EDB)	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
Naphthalene	ND	0.40		mg/L	200	8/12/2022 2:50:00 AM	R90200
1-Methylnaphthalene	ND	0.80		mg/L	200	8/12/2022 2:50:00 AM	R90200
2-Methylnaphthalene	ND	0.80		mg/L	200	8/12/2022 2:50:00 AM	R90200
Acetone	ND	2.0		mg/L	200	8/12/2022 2:50:00 AM	R90200
Bromobenzene	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
Bromodichloromethane	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
Bromoform	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
Bromomethane	ND	0.60		mg/L	200	8/12/2022 2:50:00 AM	R90200
2-Butanone	ND	2.0		mg/L	200	8/12/2022 2:50:00 AM	R90200
Carbon disulfide	ND	2.0		mg/L	200	8/12/2022 2:50:00 AM	R90200
Carbon Tetrachloride	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
Chlorobenzene	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
Chloroethane	ND	0.40		mg/L	200	8/12/2022 2:50:00 AM	R90200
Chloroform	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
Chloromethane	ND	0.60		mg/L	200	8/12/2022 2:50:00 AM	R90200
2-Chlorotoluene	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
4-Chlorotoluene	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
cis-1,2-DCE	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
cis-1,3-Dichloropropene	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
1,2-Dibromo-3-chloropropane	ND	0.40		mg/L	200	8/12/2022 2:50:00 AM	R90200
Dibromochloromethane	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
Dibromomethane	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
1,2-Dichlorobenzene	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
1,3-Dichlorobenzene	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
1,4-Dichlorobenzene	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
Dichlorodifluoromethane	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
1,1-Dichloroethane	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
1,1-Dichloroethene	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
1,2-Dichloropropane	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
1,3-Dichloropropane	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
2,2-Dichloropropane	ND	0.40		mg/L	200	8/12/2022 2:50:00 AM	R90200
1,1-Dichloropropene	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
Hexachlorobutadiene	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
2-Hexanone	ND	2.0		mg/L	200	8/12/2022 2:50:00 AM	R90200
Isopropylbenzene	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
4-Isopropyltoluene	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
4-Methyl-2-pentanone	ND	2.0		mg/L	200	8/12/2022 2:50:00 AM	R90200

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

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ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
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Analytical Report
Lab Order **2208585**
Date Reported: **8/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Non-Exempt BGT
Project: Kutz
Collection Date: 8/9/2022 3:10:00 PM
Lab ID: 2208585-001 **Matrix:** AQUEOUS **Received Date:** 8/10/2022 6:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Methylene Chloride	ND	0.60		mg/L	200	8/12/2022 2:50:00 AM	R90200
n-Butylbenzene	ND	0.60		mg/L	200	8/12/2022 2:50:00 AM	R90200
n-Propylbenzene	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
sec-Butylbenzene	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
Styrene	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
tert-Butylbenzene	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
1,1,1,2-Tetrachloroethane	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
1,1,2,2-Tetrachloroethane	ND	0.40		mg/L	200	8/12/2022 2:50:00 AM	R90200
Tetrachloroethene (PCE)	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
trans-1,2-DCE	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
trans-1,3-Dichloropropene	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
1,2,3-Trichlorobenzene	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
1,2,4-Trichlorobenzene	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
1,1,1-Trichloroethane	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
1,1,2-Trichloroethane	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
Trichloroethene (TCE)	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
Trichlorofluoromethane	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
1,2,3-Trichloropropane	ND	0.40		mg/L	200	8/12/2022 2:50:00 AM	R90200
Vinyl chloride	ND	0.20		mg/L	200	8/12/2022 2:50:00 AM	R90200
Xylenes, Total	0.46	0.30		mg/L	200	8/12/2022 2:50:00 AM	R90200
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	200	8/12/2022 2:50:00 AM	R90200
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	200	8/12/2022 2:50:00 AM	R90200
Surr: Dibromofluoromethane	107	70-130		%Rec	200	8/12/2022 2:50:00 AM	R90200
Surr: Toluene-d8	91.3	70-130		%Rec	200	8/12/2022 2:50:00 AM	R90200

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

Qualifiers:

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ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Pace Analytical®

ANALYTICAL REPORT

August 19, 2022

Hall Environmental Analysis Laboratory

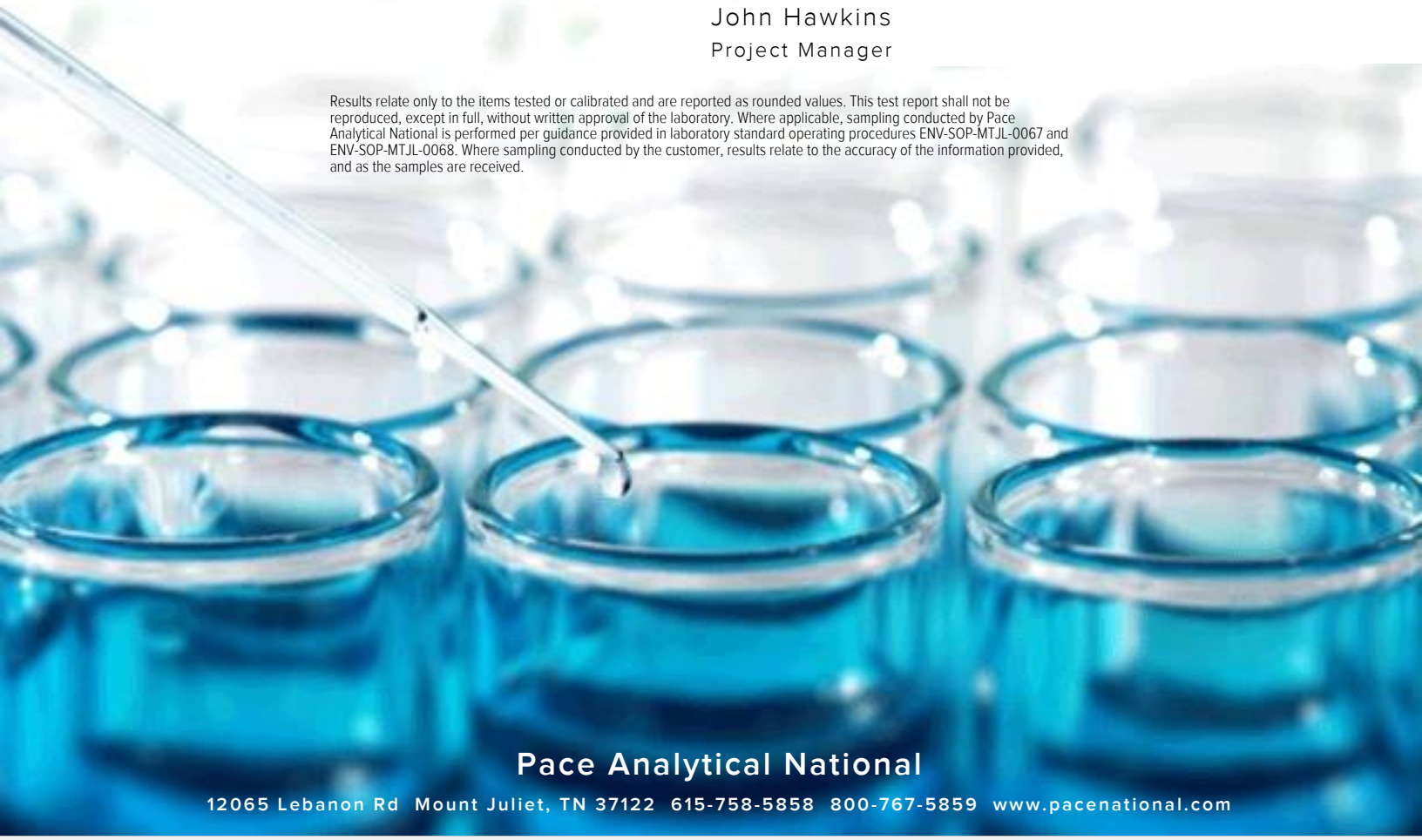
Sample Delivery Group:	L1523996
Samples Received:	08/11/2022
Project Number:	
Description:	

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

Entire Report Reviewed By:

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

TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

2208585-001D NON-EXEMPT BGT L1523996-01 5

Qc: Quality Control Summary 6

Wet Chemistry by Method 4500 CN E-2016 6

Wet Chemistry by Method 4500 S2 D-2011 7

Wet Chemistry by Method 4500H+ B-2011 8

Wet Chemistry by Method D93/1010A 9

Gl: Glossary of Terms 10

Al: Accreditations & Locations 11

Sc: Sample Chain of Custody 12

SAMPLE SUMMARY

2208585-001D NON-EXEMPT BGT L1523996-01 WW

Collected by	Collected date/time	Received date/time
	08/09/22 15:10	08/11/22 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 4500 CN E-2016	WG1906856	5	08/12/22 09:51	08/13/22 10:31	CAT	Mt. Juliet, TN
Wet Chemistry by Method 4500 S2 D-2011	WG1910565	5	08/14/22 11:30	08/14/22 11:30	SDE	Mt. Juliet, TN
Wet Chemistry by Method 4500H+ B-2011	WG1910407	1	08/18/22 12:00	08/18/22 12:00	NTG	Mt. Juliet, TN
Wet Chemistry by Method D93/1010A	WG1910733	1	08/15/22 01:45	08/15/22 01:45	WOS	Mt. Juliet, TN

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

John Hawkins
Project Manager

Project Narrative

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

Wet Chemistry by Method 4500 CN E-2016

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Cyanide	ND		0.0250	5	08/13/2022 10:31	WG1906856

Sample Narrative:

L1523996-01 WG1906856: Dilution due to matrix.

Wet Chemistry by Method 4500 S2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Sulfide	ND		0.250	5	08/14/2022 11:30	WG1910565

Wet Chemistry by Method 4500H+ B-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
Corrosivity by pH	5.17	T8	1	08/18/2022 12:00	WG1910407

Sample Narrative:

L1523996-01 WG1910407: 5.17 at 21.4C

Wet Chemistry by Method D93/1010A

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	deg F			date / time	
Flashpoint	DNF at 170		1	08/15/2022 01:45	WG1910733

Method Blank (MB)

(MB) R3826364-1 08/13/22 10:02

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

L1522521-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1522521-02 08/13/22 10:07 • (DUP) R3826364-3 08/13/22 10:08

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

L1522556-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1522556-01 08/13/22 10:14 • (DUP) R3826364-4 08/13/22 10:15

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

Laboratory Control Sample (LCS)

(LCS) R3826364-2 08/13/22 10:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Cyanide	0.100	0.0969	96.9	87.1-120	

L1523054-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1523054-01 08/13/22 10:22 • (MS) R3826364-5 08/13/22 10:23 • (MSD) R3826364-6 08/13/22 10:26

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	0.00776	0.105	0.107	97.2	99.2	1	90.0-110			1.89	20

Method Blank (MB)

(MB) R3826044-1 08/14/22 11:26

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

L1523902-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1523902-02 08/14/22 11:28 • (DUP) R3826044-3 08/14/22 11:29

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

Laboratory Control Sample (LCS)

(LCS) R3826044-2 08/14/22 11:27

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Sulfide	0.500	0.462	92.4	85.0-115	

Laboratory Control Sample (LCS)

(LCS) R3827690-1 08/18/22 12:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
Corrosivity by pH	10.0	9.91	99.1	99.0-101	

Sample Narrative:

LCS: 9.91 at 21.4C

L1524039-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1524039-01 08/15/22 01:45 • (DUP) R3826108-3 08/15/22 01:45

Analyte	Original Result deg F	DUP Result deg F	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Flashpoint	90.0	96.0	1	6.45		10

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

(LCS) R3826108-1 08/15/22 01:45 • (LCSD) R3826108-2 08/15/22 01:45

Analyte	Spike Amount deg F	LCS Result deg F	LCSD Result deg F	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Flashpoint	126	130	126	103	100	96.0-104			3.13	10

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
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 Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

D109

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

1523996

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

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	RCV 7/12 ANALYTICAL COMMENTS
1	2208585-001D	Non-Exempt BGT	500HDPE	Aqueous	8/9/2022 3:10:00 PM	3	3 DAY TAT RCI -DI

Sample Receipt Checklist

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

SPECIAL INSTRUCTIONS / COMMENTS:

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

OK

Relinquished By: CMC	Date: 8/10/2022	Time: 9:04 AM	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date: 8-11-22	Time: 0845

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

REPORT TRANSMITTAL DESIRED:

☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY

Temp of samples 0.8°C to -0.8°C Attempt to Cool ?

Comments:

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208585**

29-Aug-22

Client: Souder, Miller and Associates

Project: Kutz

Sample ID: **100NG LCS4**	SampType: **LCS4**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BatchQC**	Batch ID: **R90200**	RunNo: **90200**
Prep Date:	Analysis Date: **8/11/2022**	SeqNo: **3217387** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	108	70	130			
Toluene	19	1.0	20.00	0	96.5	70	130			
Ethylbenzene	19	1.0	20.00	0	92.6	70	130			
Methyl tert-butyl ether (MTBE)	40	1.0	40.00	0	100	70	130			
1,2,4-Trimethylbenzene	19	1.0	20.00	0	95.7	70	130			
1,3,5-Trimethylbenzene	19	1.0	20.00	0	94.0	70	130			
1,2-Dichloroethane (EDC)	23	1.0	20.00	0	114	70	130			
1,2-Dibromoethane (EDB)	19	1.0	20.00	0	94.9	70	130			
Naphthalene	17	2.0	20.00	0	83.5	70	130			
1-Methylnaphthalene	16	4.0	20.00	0	82.1	60.3	126			
2-Methylnaphthalene	14	4.0	20.00	0	71.6	59	127			
Acetone	49	10	40.00	0	121	53.2	126			
Bromobenzene	19	1.0	20.00	0	93.6	70	130			
Bromodichloromethane	22	1.0	20.00	0	109	70	130			
Bromoform	19	1.0	20.00	0	93.7	70	130			
Bromomethane	12	3.0	20.00	0	61.0	15	213			
2-Butanone	44	10	40.00	0	110	59.4	136			
Carbon disulfide	37	10	40.00	0	91.5	70	130			
Carbon Tetrachloride	21	1.0	20.00	0	106	70	130			
Chlorobenzene	19	1.0	20.00	0	96.6	70	130			
Chloroethane	22	2.0	20.00	0	109	69.5	131			
Chloroform	22	1.0	20.00	0	111	70	130			
Chloromethane	20	3.0	20.00	0	101	56.9	143			
2-Chlorotoluene	20	1.0	20.00	0	97.6	70	130			
4-Chlorotoluene	20	1.0	20.00	0	98.5	70	130			
cis-1,2-DCE	21	1.0	20.00	0	104	70	130			
cis-1,3-Dichloropropene	21	1.0	20.00	0	103	70	130			
1,2-Dibromo-3-chloropropane	18	2.0	20.00	0	90.6	62.3	135			
Dibromochloromethane	19	1.0	20.00	0	94.4	70	130			
Dibromomethane	21	1.0	20.00	0	107	70	130			
1,2-Dichlorobenzene	19	1.0	20.00	0	95.9	70	130			
1,3-Dichlorobenzene	19	1.0	20.00	0	96.5	70	130			
1,4-Dichlorobenzene	20	1.0	20.00	0	98.1	70	130			
Dichlorodifluoromethane	29	1.0	20.00	0	147	41	159			
1,1-Dichloroethane	22	1.0	20.00	0	111	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	102	70	130			
1,2-Dichloropropane	22	1.0	20.00	0	109	70	130			
1,3-Dichloropropane	20	1.0	20.00	0	100	70	130			
2,2-Dichloropropane	20	2.0	20.00	0	101	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208585**

29-Aug-22

Client: Souder, Miller and Associates

Project: Kutz

Sample ID: **100NG LCS4**	SampType: **LCS4**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BatchQC**	Batch ID: **R90200**	RunNo: **90200**
Prep Date:	Analysis Date: **8/11/2022**	SeqNo: **3217387** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	21	1.0	20.00	0	104	70	130			
Hexachlorobutadiene	17	1.0	20.00	0	86.4	63.6	129			
2-Hexanone	40	10	40.00	0	101	63.2	130			
Isopropylbenzene	19	1.0	20.00	0	94.0	70	130			
4-Isopropyltoluene	19	1.0	20.00	0	92.7	70	130			
4-Methyl-2-pentanone	44	10	40.00	0	111	64.7	132			
Methylene Chloride	23	3.0	20.00	0	113	70	130			
n-Butylbenzene	19	3.0	20.00	0	92.6	70	130			
n-Propylbenzene	19	1.0	20.00	0	97.0	70	130			
sec-Butylbenzene	19	1.0	20.00	0	94.1	70	130			
Styrene	19	1.0	20.00	0	94.8	70	130			
tert-Butylbenzene	18	1.0	20.00	0	91.5	70	130			
1,1,1,2-Tetrachloroethane	18	1.0	20.00	0	90.9	70	130			
1,1,2,2-Tetrachloroethane	21	2.0	20.00	0	107	65.8	138			
Tetrachloroethene (PCE)	19	1.0	20.00	0	92.5	70	130			
trans-1,2-DCE	21	1.0	20.00	0	105	70	130			
trans-1,3-Dichloropropene	18	1.0	20.00	0	90.4	70	130			
1,2,3-Trichlorobenzene	18	1.0	20.00	0	89.8	70	130			
1,2,4-Trichlorobenzene	16	1.0	20.00	0	81.8	70	130			
1,1,1-Trichloroethane	21	1.0	20.00	0	104	70	130			
1,1,2-Trichloroethane	21	1.0	20.00	0	103	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	104	70	130			
Trichlorofluoromethane	23	1.0	20.00	0	114	70	130			
1,2,3-Trichloropropane	20	2.0	20.00	0	101	70	130			
Vinyl chloride	22	1.0	20.00	0	112	70	130			
Xylenes, Total	58	1.5	60.00	0	96.5	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		111	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		96.1	70	130			
Surr: Dibromofluoromethane	11		10.00		105	70	130			
Surr: Toluene-d8	9.7		10.00		97.5	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R90200**	RunNo: **90200**
Prep Date:	Analysis Date: **8/11/2022**	SeqNo: **3217907** Units: **µg/L**

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208585**

29-Aug-22

Client: Souder, Miller and Associates

Project: Kutz

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R90200**	RunNo: **90200**
Prep Date:	Analysis Date: **8/11/2022**	SeqNo: **3217907** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208585**

29-Aug-22

Client: Souder, Miller and Associates

Project: Kutz

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R90200**	RunNo: **90200**
Prep Date:	Analysis Date: **8/11/2022**	SeqNo: **3217907** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		115	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.8	70	130			
Surr: Dibromofluoromethane	11		10.00		111	70	130			
Surr: Toluene-d8	9.1		10.00		90.7	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208585**

29-Aug-22

Client: Souder, Miller and Associates

Project: Kutz

Sample ID: **mb-69416**	SampType: **MBLK**	TestCode: **EPA Method 8270SIM**
Client ID: **PBW**	Batch ID: **69416**	RunNo: **90362**
Prep Date: **8/11/2022**	Analysis Date: **8/17/2022**	SeqNo: **3223753** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.30								
1-Methylnaphthalene	ND	0.30								
2-Methylnaphthalene	ND	0.30								
Acenaphthylene	ND	0.30								
Acenaphthene	ND	0.30								
Fluorene	ND	0.30								
Phenanthrene	ND	0.30								
Anthracene	ND	0.30								
Fluoranthene	ND	0.30								
Pyrene	ND	1.0								
Benz(a)anthracene	ND	0.30								
Chrysene	ND	0.30								
Benzo(b)fluoranthene	ND	0.30								
Benzo(k)fluoranthene	ND	0.30								
Benzo(a)pyrene	ND	0.30								
Dibenz(a,h)anthracene	ND	0.30								
Benzo(g,h,i)perylene	ND	0.30								
Indeno(1,2,3-cd)pyrene	ND	0.30								
Surr: Nitrobenzene-d5	3.0		4.000		76.0	31.6	100			
Surr: 2,4,6-Tribromophenol	6.0		8.000		74.8	22	101			
Surr: 2-Fluorobiphenyl	2.8		4.000		71.0	26.7	90.1			
Surr: 4-Terphenyl-d14	4.1		4.000		103	72.3	147			

Sample ID: **lcs-69416**	SampType: **LCS**	TestCode: **EPA Method 8270SIM**
Client ID: **LCSW**	Batch ID: **69416**	RunNo: **90362**
Prep Date: **8/11/2022**	Analysis Date: **8/17/2022**	SeqNo: **3223754** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	1.1	0.30	2.000	0	54.0	21.3	79.9			
1-Methylnaphthalene	1.1	0.30	2.000	0	53.0	22.2	80.3			
2-Methylnaphthalene	1.0	0.30	2.000	0	52.0	20.6	80.1			
Acenaphthylene	1.2	0.30	2.000	0	61.0	36.9	87.2			
Acenaphthene	1.1	0.30	2.000	0	57.0	29.8	82.7			
Fluorene	1.3	0.30	2.000	0	63.0	33.3	86			
Phenanthrene	1.3	0.30	2.000	0	67.0	38.2	93.9			
Anthracene	1.4	0.30	2.000	0	70.0	41.1	95.6			
Fluoranthene	1.6	0.30	2.000	0	81.0	52.9	123			
Pyrene	1.5	1.0	2.000	0	77.0	51	113			
Benz(a)anthracene	1.9	0.30	2.000	0	94.0	51	147			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208585**

29-Aug-22

Client: Souder, Miller and Associates

Project: Kutz

Sample ID: **lcs-69416**	SampType: **LCS**	TestCode: **EPA Method 8270SIM**
Client ID: **LCSW**	Batch ID: **69416**	RunNo: **90362**
Prep Date: **8/11/2022**	Analysis Date: **8/17/2022**	SeqNo: **3223754** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chrysene	1.6	0.30	2.000	0	78.0	55.3	115			
Benzo(b)fluoranthene	1.7	0.30	2.000	0	84.0	44.4	136			
Benzo(k)fluoranthene	1.6	0.30	2.000	0	78.0	56.9	121			
Benzo(a)pyrene	1.8	0.30	2.000	0	91.0	48.7	134			
Dibenz(a,h)anthracene	1.8	0.30	2.000	0	91.0	39.9	137			
Benzo(g,h,i)perylene	1.8	0.30	2.000	0	89.0	44.2	128			
Indeno(1,2,3-cd)pyrene	2.0	0.30	2.000	0	100	31.4	165			
Surr: Nitrobenzene-d5	4.0		5.000		79.6	31.6	100			
Surr: 2,4,6-Tribromophenol	7.1		10.00		71.0	22	101			
Surr: 2-Fluorobiphenyl	3.4		5.000		67.2	26.7	90.1			
Surr: 4-Terphenyl-d14	5.0		5.000		99.6	72.3	147			

Sample ID: **lcsd-69416**	SampType: **LCSD**	TestCode: **EPA Method 8270SIM**
Client ID: **LCSS02**	Batch ID: **69416**	RunNo: **90362**
Prep Date: **8/11/2022**	Analysis Date: **8/17/2022**	SeqNo: **3223755** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.68	0.30	2.000	0	34.0	21.3	79.9	45.5	25.6	R
1-Methylnaphthalene	0.66	0.30	2.000	0	33.0	22.2	80.3	46.5	25	R
2-Methylnaphthalene	0.64	0.30	2.000	0	32.0	20.6	80.1	47.6	25	R
Acenaphthylene	0.86	0.30	2.000	0	43.0	36.9	87.2	34.6	23.8	R
Acenaphthene	0.76	0.30	2.000	0	38.0	29.8	82.7	40.0	27.8	R
Fluorene	0.88	0.30	2.000	0	44.0	33.3	86	35.5	26.4	R
Phenanthrene	1.0	0.30	2.000	0	50.0	38.2	93.9	29.1	27.9	R
Anthracene	1.1	0.30	2.000	0	53.0	41.1	95.6	27.6	25.6	R
Fluoranthene	1.4	0.30	2.000	0	70.0	52.9	123	14.6	22.8	
Pyrene	1.4	1.0	2.000	0	68.0	51	113	12.4	20	
Benz(a)anthracene	1.7	0.30	2.000	0	83.0	51	147	12.4	24.1	
Chrysene	1.5	0.30	2.000	0	73.0	55.3	115	6.62	20	
Benzo(b)fluoranthene	1.5	0.30	2.000	0	76.0	44.4	136	10.0	24.5	
Benzo(k)fluoranthene	1.5	0.30	2.000	0	74.0	56.9	121	5.26	21.1	
Benzo(a)pyrene	1.7	0.30	2.000	0	85.0	48.7	134	6.82	24.8	
Dibenz(a,h)anthracene	1.7	0.30	2.000	0	83.0	39.9	137	9.20	24.9	
Benzo(g,h,i)perylene	1.6	0.30	2.000	0	81.0	44.2	128	9.41	23.1	
Indeno(1,2,3-cd)pyrene	1.8	0.30	2.000	0	91.0	31.4	165	9.42	21.1	
Surr: Nitrobenzene-d5	3.0		5.000		60.0	31.6	100	0	0	
Surr: 2,4,6-Tribromophenol	5.3		10.00		52.8	22	101	0	0	
Surr: 2-Fluorobiphenyl	2.5		5.000		50.0	26.7	90.1	0	0	
Surr: 4-Terphenyl-d14	4.8		5.000		95.2	72.3	147	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208585**

29-Aug-22

Client: Souder, Miller and Associates

Project: Kutz

Sample ID: **MB-69542**	SampType: **MBLK**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **PBW**	Batch ID: **69542**	RunNo: **90340**
Prep Date: **8/16/2022**	Analysis Date: **8/17/2022**	SeqNo: **3222928** Units: **mg/L**

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

Sample ID: **LCSLL-69542**	SampType: **LCSLL**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **BatchQC**	Batch ID: **69542**	RunNo: **90340**
Prep Date: **8/16/2022**	Analysis Date: **8/17/2022**	SeqNo: **3222929** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020	0.0001500	0	81.7	50	150			

Sample ID: **LCS-69542**	SampType: **LCS**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **LCSW**	Batch ID: **69542**	RunNo: **90340**
Prep Date: **8/16/2022**	Analysis Date: **8/17/2022**	SeqNo: **3222930** 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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208585**

29-Aug-22

Client: Souder, Miller and Associates

Project: Kutz

Sample ID: **MB-69406**	SampType: **MBLK**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW**	Batch ID: **69406**	RunNo: **90422**
Prep Date: **8/10/2022**	Analysis Date: **8/18/2022**	SeqNo: **3226293** Units: **mg/L**

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

Sample ID: **LCS-69406**	SampType: **LCS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW**	Batch ID: **69406**	RunNo: **90422**
Prep Date: **8/10/2022**	Analysis Date: **8/18/2022**	SeqNo: **3226297** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.46	0.030	0.5000	0	92.3	80	120			
Barium	0.46	0.0020	0.5000	0	92.9	80	120			
Cadmium	0.47	0.0020	0.5000	0	94.3	80	120			
Chromium	0.46	0.0060	0.5000	0	91.7	80	120			
Lead	0.47	0.020	0.5000	0	93.5	80	120			
Selenium	0.45	0.050	0.5000	0	89.4	80	120			
Silver	0.091	0.0050	0.1000	0	91.5	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **Souder, Miller and Associates** Work Order Number: **2208585** RcptNo: 1

Received By: **Juan Rojas** **8/10/2022 6:25:00 AM**

Completed By: **Cheyenne Cason** **8/10/2022 9:10:50 AM**

Reviewed By: JN 8/10/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

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

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

Adjusted? NO

Checked by: KRA 8.10.22

Special Handling (if applicable)

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

Person Notified: Date:

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

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.3	Good	Yes			

Page 573 of 673

Chain-of-Custody Record

Client: SMA

Mailing Address: 401 W Broadway
Farmington, NM 87401

Phone #: 505 325 7535

email or Fax#: Heather.Woods

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
~~☐ Standard~~ HW ☒ Rush ASAP

Project Name: Kutz

Project #:

Project Manager: Heather Woods

Sampler: Heather Woods
On Ice: ☑ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 7.2+0.1=7.3 (°C)

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2208585
8/9/22	15:10	Aq	Non Exempt-BGT	(1) 1L Amber	None	001
				(3) 40mL Vom	~~HgCl2~~ HW HCl	
				(1) 125mL Plast	HNO_3	
				(1) 125mL Plast	Zn Acetate	
				(1) 125mL Plast	NaOH	
				(1) 125mL Plas	None	

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals TCLP	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA) Full List	8270 (Semi-VOA)	Total Coliform (Present/Absent)	RCI
				X	X		X			X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/9/22	1623				8/9/22	1623
8/9/22	1807			Courier	8/10/22	6:25

Remarks: TCLP compounds at TCLP Limits
Invoice Enterprise
CC Thomas Long

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

Received by OCD: 10/2/2023 3:49:18 PM
Released to Imaging: 10/2/2023 4:00:31 PM

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-138
Revised 08/01/11

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

2. Originating Site:
MAPL Huerfano Pumping Station

3. Location of Material (Street Address, City, State or ULSTR):
UL L Section 21 Township 26 North Range 10 West; 36.471831, -107.908114

4. Source and Description of Waste:
Source: Water/Oil from the Non Exempt WasteWater Tanks and from the compressor skid drains.
Description: Non Exempt/Non Hazardous Water from the compressor skids.
Estimated Volume 80 yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd^3 / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long, representative or authorized agent for Enterprise Products Operating do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. ***Operator Use Only: Waste Acceptance Frequency*** ☐ ***Monthly*** ☐ ***Weekly*** ☐ ***Per Load***

☒ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☒ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long, representative for Enterprise Products Operating authorize to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for _____Agua Moss, LLC_____ do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: To Be Determined

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: ***Agua Moss, LLC - Permit #: NM-01-009**
Address of Facility: **SW/4 NW/4 Section 2, Township 29N, Range Crouch Mesa, NM**

Method of Treatment and/or Disposal:
☐ Evaporation ☒ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☐ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: _____ TITLE: _____ DATE: _____
SIGNATURE: _____ TELEPHONE NO.: _____
Surface Waste Management Facility Authorized Agent

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-138
Revised 08/01/11

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

2. Originating Site:
MAPL San Ysidro Pumping Station

3. Location of Material (Street Address, City, State or ULSTR):
UL F Section 19 Township 15 North Range 2 East; 35.517394, -106.771615

4. Source and Description of Waste:
Source: Water/Oil from the Non Exempt WasteWater Tanks and from the compressor skid drains.
Description: Non Exempt/Non Hazardous Water from the compressor skids.
Estimated Volume 80 yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd^3 / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long, representative or authorized agent for Enterprise Products Operating do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. ***Operator Use Only: Waste Acceptance Frequency*** ☐ ***Monthly*** ☐ ***Weekly*** ☐ ***Per Load***

☒ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☒ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long, representative for Enterprise Products Operating authorize Gandy Corporation, Inc. to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for _____ Gandy Corporation, Inc. _____ do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: To Be Determined

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: * Gandy Marley, Inc. 7210 E. Second Street Roswell, NM 88202; Permit # NM-711-1-0020
Address of Facility: Sec 4,5,8,9 T11S, R 31E
Method of Treatment and/or Disposal:
☒ Evaporation ☐ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☐ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: _____ TITLE: _____ DATE: _____
SIGNATURE: _____ TELEPHONE NO.: _____

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 19, 2022

Ashley Maxwell

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

RE: Huerfano OrderNo.: 2207006

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/1/2022 for the analyses presented in the following report.

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

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

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

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2207006**
Date Reported: **7/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Non Exempt BGT
Project: Huerfano
Collection Date: 6/30/2022 10:10:00 AM
Lab ID: 2207006-001 **Matrix:** AQUEOUS **Received Date:** 7/1/2022 6:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 6020A: TOTAL METALS						Analyst: **DBK**	
Arsenic	ND	5.0		mg/L	1	7/8/2022 2:25:53 PM	68616
Lead	ND	5.0		mg/L	1	7/8/2022 2:25:53 PM	68616
Selenium	ND	1.0		mg/L	5	7/8/2022 3:45:01 PM	68616
EPA METHOD 7470A: MERCURY						Analyst: **VP**	
Mercury	ND	0.020		mg/L	1	7/6/2022 10:51:50 AM	68557
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **JRR**	
Barium	ND	100		mg/L	1	7/11/2022 1:09:53 PM	68616
Cadmium	ND	1.0		mg/L	1	7/11/2022 1:09:53 PM	68616
Chromium	ND	5.0		mg/L	1	7/11/2022 1:09:53 PM	68616
Silver	ND	5.0		mg/L	1	7/11/2022 1:09:53 PM	68616
EPA METHOD 8270SIM						Analyst: **TOM**	
Naphthalene	ND	30	D	µg/L	10	7/13/2022 9:02:00 AM	68515
1-Methylnaphthalene	ND	30	D	µg/L	10	7/13/2022 9:02:00 AM	68515
2-Methylnaphthalene	ND	30	D	µg/L	10	7/13/2022 9:02:00 AM	68515
Acenaphthylene	ND	30	D	µg/L	10	7/13/2022 9:02:00 AM	68515
Acenaphthene	ND	30	D	µg/L	10	7/13/2022 9:02:00 AM	68515
Fluorene	ND	30	D	µg/L	10	7/13/2022 9:02:00 AM	68515
Phenanthrene	ND	30	D	µg/L	10	7/13/2022 9:02:00 AM	68515
Anthracene	ND	30	D	µg/L	10	7/13/2022 9:02:00 AM	68515
Fluoranthene	ND	30	D	µg/L	10	7/13/2022 9:02:00 AM	68515
Pyrene	ND	100	D	µg/L	10	7/13/2022 9:02:00 AM	68515
Benz(a)anthracene	ND	30	D	µg/L	10	7/13/2022 9:02:00 AM	68515
Chrysene	ND	30	D	µg/L	10	7/13/2022 9:02:00 AM	68515
Benzo(b)fluoranthene	ND	30	D	µg/L	10	7/13/2022 9:02:00 AM	68515
Benzo(k)fluoranthene	ND	30	D	µg/L	10	7/13/2022 9:02:00 AM	68515
Benzo(a)pyrene	ND	30	D	µg/L	10	7/13/2022 9:02:00 AM	68515
Dibenz(a,h)anthracene	ND	30	D	µg/L	10	7/13/2022 9:02:00 AM	68515
Benzo(g,h,i)perylene	ND	30	D	µg/L	10	7/13/2022 9:02:00 AM	68515
Indeno(1,2,3-cd)pyrene	ND	30	D	µg/L	10	7/13/2022 9:02:00 AM	68515
Surr: Nitrobenzene-d5	0	31.6-100	SD	%Rec	10	7/13/2022 9:02:00 AM	68515
Surr: 2-Fluorobiphenyl	0	26.7-90.1	SD	%Rec	10	7/13/2022 9:02:00 AM	68515
Surr: 4-Terphenyl-d14	0	72.3-147	SD	%Rec	10	7/13/2022 9:02:00 AM	68515
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.50		mg/L	200	7/8/2022 8:01:22 PM	R89365
Toluene	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
Ethylbenzene	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
Methyl tert-butyl ether (MTBE)	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365

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

Qualifiers:

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

Analytical Report
Lab Order **2207006**
Date Reported: **7/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Non Exempt BGT
Project: Huerfano
Collection Date: 6/30/2022 10:10:00 AM
Lab ID: 2207006-001 **Matrix:** AQUEOUS **Received Date:** 7/1/2022 6:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,2,4-Trimethylbenzene	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
1,3,5-Trimethylbenzene	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
1,2-Dichloroethane (EDC)	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
1,2-Dibromoethane (EDB)	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
Naphthalene	ND	0.40		mg/L	200	7/8/2022 8:01:22 PM	R89365
1-Methylnaphthalene	ND	0.80		mg/L	200	7/8/2022 8:01:22 PM	R89365
2-Methylnaphthalene	ND	0.80		mg/L	200	7/8/2022 8:01:22 PM	R89365
Acetone	ND	2.0		mg/L	200	7/8/2022 8:01:22 PM	R89365
Bromobenzene	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
Bromodichloromethane	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
Bromoform	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
Bromomethane	ND	0.60		mg/L	200	7/8/2022 8:01:22 PM	R89365
2-Butanone	ND	2.0		mg/L	200	7/8/2022 8:01:22 PM	R89365
Carbon disulfide	ND	2.0		mg/L	200	7/8/2022 8:01:22 PM	R89365
Carbon Tetrachloride	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
Chlorobenzene	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
Chloroethane	ND	0.40		mg/L	200	7/8/2022 8:01:22 PM	R89365
Chloroform	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
Chloromethane	ND	0.60		mg/L	200	7/8/2022 8:01:22 PM	R89365
2-Chlorotoluene	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
4-Chlorotoluene	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
cis-1,2-DCE	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
cis-1,3-Dichloropropene	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
1,2-Dibromo-3-chloropropane	ND	0.40		mg/L	200	7/8/2022 8:01:22 PM	R89365
Dibromochloromethane	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
Dibromomethane	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
1,2-Dichlorobenzene	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
1,3-Dichlorobenzene	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
1,4-Dichlorobenzene	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
Dichlorodifluoromethane	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
1,1-Dichloroethane	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
1,1-Dichloroethene	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
1,2-Dichloropropane	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
1,3-Dichloropropane	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
2,2-Dichloropropane	ND	0.40		mg/L	200	7/8/2022 8:01:22 PM	R89365
1,1-Dichloropropene	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
Hexachlorobutadiene	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
2-Hexanone	ND	2.0		mg/L	200	7/8/2022 8:01:22 PM	R89365
Isopropylbenzene	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365

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

Qualifiers:

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

Analytical Report
Lab Order **2207006**
Date Reported: **7/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Non Exempt BGT
Project: Huerfano
Collection Date: 6/30/2022 10:10:00 AM
Lab ID: 2207006-001 **Matrix:** AQUEOUS **Received Date:** 7/1/2022 6:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
4-Isopropyltoluene	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
4-Methyl-2-pentanone	ND	2.0		mg/L	200	7/8/2022 8:01:22 PM	R89365
Methylene Chloride	ND	0.60		mg/L	200	7/8/2022 8:01:22 PM	R89365
n-Butylbenzene	ND	0.60		mg/L	200	7/8/2022 8:01:22 PM	R89365
n-Propylbenzene	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
sec-Butylbenzene	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
Styrene	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
tert-Butylbenzene	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
1,1,1,2-Tetrachloroethane	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
1,1,2,2-Tetrachloroethane	ND	0.40		mg/L	200	7/8/2022 8:01:22 PM	R89365
Tetrachloroethene (PCE)	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
trans-1,2-DCE	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
trans-1,3-Dichloropropene	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
1,2,3-Trichlorobenzene	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
1,2,4-Trichlorobenzene	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
1,1,1-Trichloroethane	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
1,1,2-Trichloroethane	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
Trichloroethene (TCE)	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
Trichlorofluoromethane	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
1,2,3-Trichloropropane	ND	0.40		mg/L	200	7/8/2022 8:01:22 PM	R89365
Vinyl chloride	ND	0.20		mg/L	200	7/8/2022 8:01:22 PM	R89365
Xylenes, Total	ND	0.30		mg/L	200	7/8/2022 8:01:22 PM	R89365
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	200	7/8/2022 8:01:22 PM	R89365
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	200	7/8/2022 8:01:22 PM	R89365
Surr: Dibromofluoromethane	111	70-130		%Rec	200	7/8/2022 8:01:22 PM	R89365
Surr: Toluene-d8	96.8	70-130		%Rec	200	7/8/2022 8:01:22 PM	R89365

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

Qualifiers:

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

Pace Analytical®

ANALYTICAL REPORT

July 15, 2022

Hall Environmental Analysis Laboratory

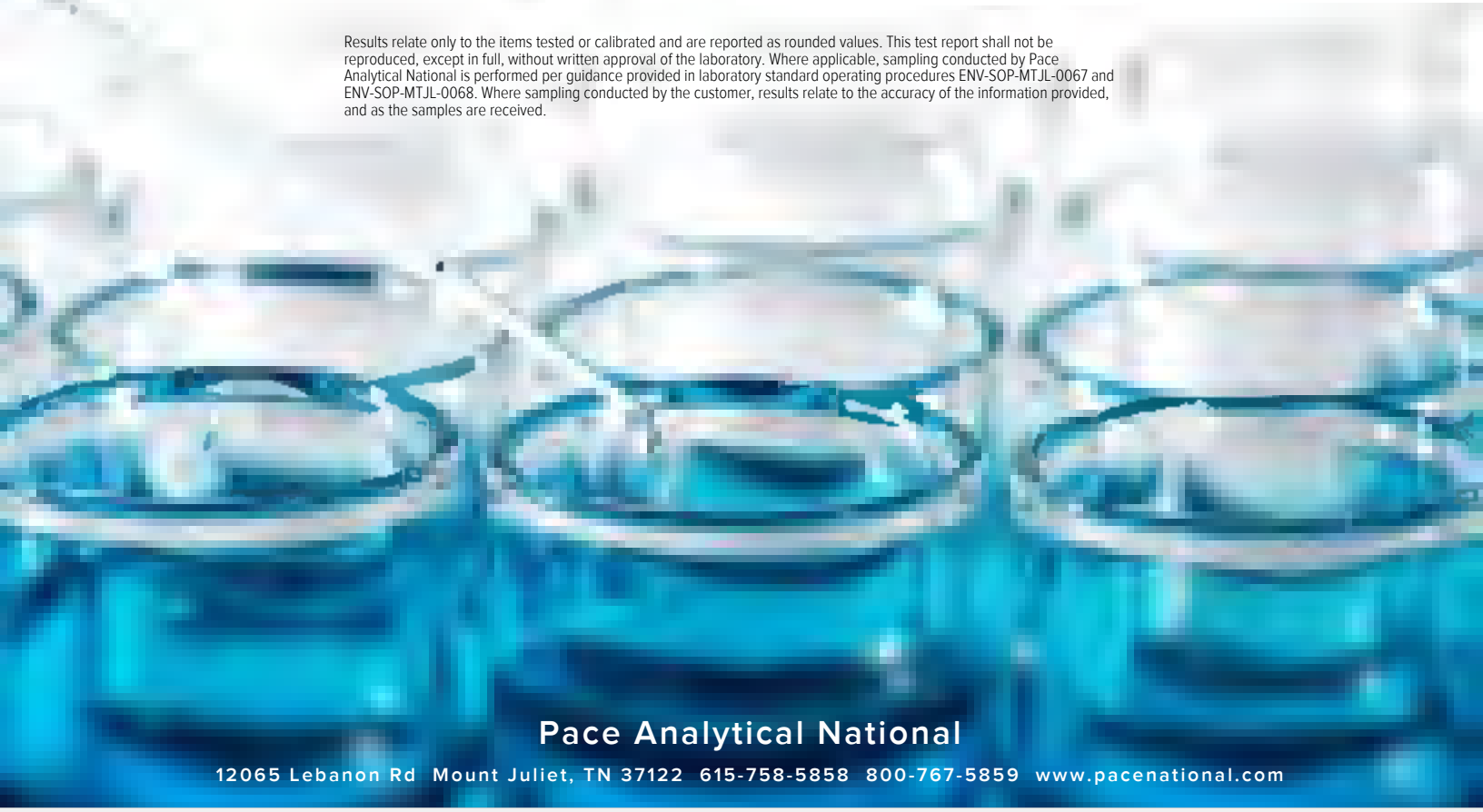
Sample Delivery Group:	L1511989
Samples Received:	07/06/2022
Project Number:	
Description:	

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

Entire Report Reviewed By: John V Hawkins

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

TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

2207006-001D NON EXEMPT BGT L1511989-01 5

Qc: Quality Control Summary 6

Wet Chemistry by Method 4500 CN E-2016 6

Wet Chemistry by Method 4500 S2 D-2011 7

Wet Chemistry by Method 4500H+ B-2011 8

Wet Chemistry by Method D93/1010A 9

Gl: Glossary of Terms 10

Al: Accreditations & Locations 11

Sc: Sample Chain of Custody 12

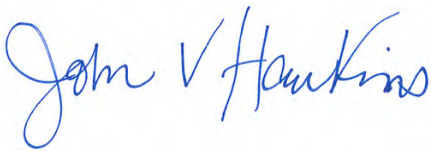
SAMPLE SUMMARY

2207006-001D NON EXEMPT BGT L1511989-01 WW

Collected by	Collected date/time	Received date/time
	06/30/22 10:10	07/06/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 4500 CN E-2016	WG1893803	1	07/12/22 19:14	07/13/22 11:09	LDT	Mt. Juliet, TN
Wet Chemistry by Method 4500 S2 D-2011	WG1893400	1	07/11/22 22:44	07/11/22 22:44	CRB	Mt. Juliet, TN
Wet Chemistry by Method 4500H+ B-2011	WG1891977	1	07/09/22 13:00	07/09/22 13:00	GI	Mt. Juliet, TN
Wet Chemistry by Method D93/1010A	WG1892737	1	07/11/22 03:00	07/11/22 03:00	RMR	Mt. Juliet, TN

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



John Hawkins
Project Manager

Project Narrative

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

Sample Delivery Group (SDG) Narrative

Analysis was performed from an improper container for the following samples.

Lab Sample ID	Project Sample ID	Method
L1511989-01	2207006-001D NON EXEMPT BGT	4500 CN E-2016

Wet Chemistry by Method 4500 CN E-2016

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Cyanide	ND		0.00500	1	07/13/2022 11:09	WG1893803

Wet Chemistry by Method 4500 S2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Sulfide	0.290	Q	0.0500	1	07/11/2022 22:44	WG1893400

Wet Chemistry by Method 4500H+ B-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
Corrosivity by pH	6.50	T8	1	07/09/2022 13:00	WG1891977

Sample Narrative:

L1511989-01 WG1891977: 6.5 at 23.3C

Wet Chemistry by Method D93/1010A

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	deg F			date / time	
Flashpoint	DNF at 170		1	07/11/2022 03:00	WG1892737

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

Method Blank (MB)

(MB) R3814178-1 07/13/22 10:39

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

L1511782-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1511782-03 07/13/22 10:48 • (DUP) R3814178-3 07/13/22 10:51

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Reactive Cyanide	ND	ND	1	53.3	P1	20

L1511925-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1511925-02 07/13/22 10:58 • (DUP) R3814178-6 07/13/22 10:59

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Reactive Cyanide	0.00605	ND	1	200	P1	20

Laboratory Control Sample (LCS)

(LCS) R3814178-2 07/13/22 10:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Cyanide	0.100	0.0936	93.6	87.1-120	

L1511782-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1511782-03 07/13/22 10:48 • (MS) R3814178-4 07/13/22 10:52 • (MSD) R3814178-5 07/13/22 10:53

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	ND	0.0948	0.0919	92.8	89.9	1	90.0-110		J6	3.11	20

L1511925-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1511925-02 07/13/22 10:58 • (MS) R3814178-7 07/13/22 11:00 • (MSD) R3814178-8 07/13/22 11:03

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	0.00605	0.0971	0.0935	91.1	87.5	1	90.0-110		J6	3.78	20

Method Blank (MB)

(MB) R3813408-1 07/11/22 22:35

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

L1511885-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1511885-01 07/11/22 22:38 • (DUP) R3813408-3 07/11/22 22:38

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

Laboratory Control Sample (LCS)

(LCS) R3813408-2 07/11/22 22:35

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Sulfide	0.500	0.534	107	85.0-115	

L1511985-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1511985-02 07/11/22 22:39 • (MS) R3813408-4 07/11/22 22:40 • (MSD) R3813408-5 07/11/22 22:41

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Sulfide	0.500	ND	0.442	0.439	88.4	87.8	1	80.0-120			0.681	20

Laboratory Control Sample (LCS)

(LCS) R3812805-1 07/09/22 13:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
Corrosivity by pH	10.0	9.90	99.0	99.0-101	

Sample Narrative:

LCS: 9.9 at 23C

L1511699-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1511699-01 07/11/22 03:00 • (DUP) R3813342-3 07/11/22 03:00

Analyte	Original Result deg F	DUP Result deg F	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Flashpoint	138	138	1	0.000		10

L1511807-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1511807-01 07/11/22 03:00 • (DUP) R3813342-4 07/11/22 03:00

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

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

(LCS) R3813342-1 07/11/22 03:00 • (LCSD) R3813342-2 07/11/22 03:00

Analyte	Spike Amount deg F	LCS Result deg F	LCSD Result deg F	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Flashpoint	126	122	130	96.8	103	96.0-104			6.35	10

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
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.
Q	Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values.
T8	Sample(s) received past/too close to holding time expiration.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

L-148

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

SUB CONTRATOR: Pace TN	COMPANY: PACE TN	PHONE: (800) 767-5859	FAX: (615) 758-5859
ADDRESS: 12065 Lebanon Rd		ACCOUNT #:	EMAIL:
CITY, STATE, ZIP: Mt. Juliet, TN 37122			C1511989

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2207006-001D	Non Exempt BGT	500HDPE	Aqueous	6/30/2022 10:10:00 AM	3	RCI **5 Day TAT** -01

Sample Receipt Checklist

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

OK

SPECIAL INSTRUCTIONS / COMMENTS:

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

Relinquished By	Date	Time	Received By	Date	Time
CMC	7/1/2022	7:57 AM			
			M. Wheeler	7/6/22	945

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

REPORT TRANSMITTAL DESIRED:

☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY

Temp of samples _____ °C Attempt to Cool ? _____

Comments: _____

TMB 575 8089 4259

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207006**

19-Jul-22

Client: Souder, Miller and Associates

Project: Huerfano

Sample ID: **MB-68616**	SampType: **MBLK**	TestCode: **EPA Method 6020A: Total Metals**
Client ID: **PBW**	Batch ID: **68616**	RunNo: **89337**
Prep Date: **7/7/2022**	Analysis Date: **7/8/2022**	SeqNo: **3177790** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Lead	ND	0.0010								
Selenium	ND	0.0010								

Sample ID: **MSLLLCS-68616**	SampType: **LCSLL**	TestCode: **EPA Method 6020A: Total Metals**
Client ID: **BatchQC**	Batch ID: **68616**	RunNo: **89337**
Prep Date: **7/7/2022**	Analysis Date: **7/8/2022**	SeqNo: **3177791** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010	0.001000	0	98.7	70	130			
Lead	0.0010	0.0010	0.001000	0	103	70	130			
Selenium	ND	0.0010	0.001000	0	81.2	70	130			

Sample ID: **MSLCS-68616**	SampType: **LCS**	TestCode: **EPA Method 6020A: Total Metals**
Client ID: **LCSW**	Batch ID: **68616**	RunNo: **89337**
Prep Date: **7/7/2022**	Analysis Date: **7/8/2022**	SeqNo: **3177792** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.049	0.0010	0.05000	0	98.2	80	120			
Lead	0.048	0.0010	0.05000	0	96.1	80	120			
Selenium	0.052	0.0010	0.05000	0	105	80	120			

Sample ID: **2207006-001CMSLL**	SampType: **MS**	TestCode: **EPA Method 6020A: Total Metals**
Client ID: **Non Exempt BGT**	Batch ID: **68616**	RunNo: **89337**
Prep Date: **7/7/2022**	Analysis Date: **7/8/2022**	SeqNo: **3177794** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.050	0.0010	0.05000	0.001349	98.1	75	125			
Lead	0.070	0.0010	0.05000	0.02085	98.0	75	125			

Sample ID: **2207006-001CMSDL**	SampType: **MSD**	TestCode: **EPA Method 6020A: Total Metals**
Client ID: **Non Exempt BGT**	Batch ID: **68616**	RunNo: **89337**
Prep Date: **7/7/2022**	Analysis Date: **7/8/2022**	SeqNo: **3177795** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.051	0.0010	0.05000	0.001349	99.4	75	125	1.24	20	
Lead	0.069	0.0010	0.05000	0.02085	95.8	75	125	1.62	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207006**

19-Jul-22

Client: Souder, Miller and Associates

Project: Huerfano

Sample ID:	**2207006-001CMSLL**	SampType:	**MS**	TestCode:	**EPA Method 6020A: Total Metals**					
Client ID:	**Non Exempt BGT**	Batch ID:	**68616**	RunNo:	**89337**					
Prep Date:	**7/7/2022**	Analysis Date:	**7/8/2022**	SeqNo:	**3177988**	Units:	**mg/L**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.033	0.0050	0.05000	0	66.5	75	125			S

Sample ID:	**2207006-001CMSDL**	SampType:	**MSD**	TestCode:	**EPA Method 6020A: Total Metals**					
Client ID:	**Non Exempt BGT**	Batch ID:	**68616**	RunNo:	**89337**					
Prep Date:	**7/7/2022**	Analysis Date:	**7/8/2022**	SeqNo:	**3177989**	Units:	**mg/L**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.034	0.0050	0.05000	0	67.8	75	125	1.99	20	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2207006**
19-Jul-22

Client: Souder, Miller and Associates
Project: Huerfano

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R89365**	RunNo: **89365**
Prep Date:	Analysis Date: **7/8/2022**	SeqNo: **3178930** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	108	70	130			
Toluene	20	1.0	20.00	0	99.9	70	130			
Chlorobenzene	20	1.0	20.00	0	100	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	99.6	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	107	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		109	70	130			
Surr: Dibromofluoromethane	10		10.00		102	70	130			
Surr: Toluene-d8	9.7		10.00		96.7	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R89365**	RunNo: **89365**
Prep Date:	Analysis Date: **7/8/2022**	SeqNo: **3178934** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207006**

19-Jul-22

Client: Souder, Miller and Associates

Project: Huerfano

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R89365**	RunNo: **89365**
Prep Date:	Analysis Date: **7/8/2022**	SeqNo: **3178934** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207006**

19-Jul-22

Client: Souder, Miller and Associates

Project: Huerfano

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R89365**	RunNo: **89365**
Prep Date:	Analysis Date: **7/8/2022**	SeqNo: **3178934** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	9.8		10.00		98.5	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207006**

19-Jul-22

Client: Souder, Miller and Associates

Project: Huerfano

Sample ID: **lcs-68515**	SampType: **LCS**	TestCode: **EPA Method 8270SIM**							
Client ID: **LCSW**	Batch ID: **68515**	RunNo: **89437**							
Prep Date: **7/1/2022**	Analysis Date: **7/13/2022**	SeqNo: **3187425**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.70	0.30	2.000	0	35.0	21.3	79.9			
1-Methylnaphthalene	0.60	0.30	2.000	0	30.0	22.2	80.3			
2-Methylnaphthalene	0.56	0.30	2.000	0	28.0	20.6	80.1			
Acenaphthylene	0.90	0.30	2.000	0	45.0	36.9	87.2			
Acenaphthene	0.80	0.30	2.000	0	40.0	29.8	82.7			
Fluorene	0.96	0.30	2.000	0	48.0	33.3	86			
Phenanthrene	1.3	0.30	2.000	0	67.0	38.2	93.9			
Anthracene	1.3	0.30	2.000	0	66.0	41.1	95.6			
Fluoranthene	1.6	0.30	2.000	0	81.0	52.9	123			
Pyrene	1.6	1.0	2.000	0	79.0	51	113			
Benz(a)anthracene	1.7	0.30	2.000	0	84.0	51	147			
Chrysene	1.7	0.30	2.000	0	85.0	55.3	115			
Benzo(b)fluoranthene	1.8	0.30	2.000	0	89.0	44.4	136			
Benzo(k)fluoranthene	1.7	0.30	2.000	0	84.0	56.9	121			
Benzo(a)pyrene	1.7	0.30	2.000	0	83.0	48.7	134			
Dibenz(a,h)anthracene	1.8	0.30	2.000	0	88.0	39.9	137			
Benzo(g,h,i)perylene	1.7	0.30	2.000	0	87.0	44.2	128			
Indeno(1,2,3-cd)pyrene	1.9	0.30	2.000	0	95.0	31.4	165			
Surr: Nitrobenzene-d5	4.1		5.000		82.0	31.6	100			
Surr: 2,4,6-Tribromophenol	6.5		10.00		64.8	22	101			
Surr: 2-Fluorobiphenyl	3.7		5.000		73.2	26.7	90.1			
Surr: 4-Terphenyl-d14	6.1		5.000		123	72.3	147			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207006**

19-Jul-22

Client: Souder, Miller and Associates

Project: Huerfano

Sample ID: **MB-68557**	SampType: **MBLK**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **PBW**	Batch ID: **68557**	RunNo: **89254**
Prep Date: **7/5/2022**	Analysis Date: **7/6/2022**	SeqNo: **3173465** Units: **mg/L**

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

Sample ID: **LCSLL-68557**	SampType: **LCSLL**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **BatchQC**	Batch ID: **68557**	RunNo: **89254**
Prep Date: **7/5/2022**	Analysis Date: **7/6/2022**	SeqNo: **3173466** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020	0.0001500	0	84.7	50	150			

Sample ID: **LCS-68557**	SampType: **LCS**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **LCSW**	Batch ID: **68557**	RunNo: **89254**
Prep Date: **7/5/2022**	Analysis Date: **7/6/2022**	SeqNo: **3173467** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0047	0.00020	0.005000	0	94.8	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207006**

19-Jul-22

Client: Souder, Miller and Associates

Project: Huerfano

Sample ID: **MB-68616**	SampType: **MBLK**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW**	Batch ID: **68616**	RunNo: **89369**
Prep Date: **7/7/2022**	Analysis Date: **7/11/2022**	SeqNo: **3179046** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Silver	ND	0.0050								

Sample ID: **LCS-68616**	SampType: **LCS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW**	Batch ID: **68616**	RunNo: **89369**
Prep Date: **7/7/2022**	Analysis Date: **7/11/2022**	SeqNo: **3179048** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.44	0.0020	0.5000	0	88.5	80	120			
Cadmium	0.45	0.0020	0.5000	0	89.3	80	120			
Chromium	0.44	0.0060	0.5000	0	88.0	80	120			
Silver	0.093	0.0050	0.1000	0	93.2	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Souder, Miller and Associates | Work Order Number: 2207006 | RcptNo: 1

Received By: Juan Rojas 7/1/2022 6:05:00 AM

Completed By: Cheyenne Cason 7/1/2022 7:54:21 AM

Reviewed By: 7-1-22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

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

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

Adjusted? NO

Checked by: JN 7/1/22

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

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

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.0	Good	Not Present			

Released to Imaging: 10/2/2023 4:00:31 PM
Received by OCD: 10/2/2023 3:49:18 PM

Chain-of-Custody Record

Client: Souder, Miller & Associates

Mailing Address: 401 W. Broadway
Farmington, NM 87401

Phone #: 505-325-7535

email or Fax#: ashley.maxwell@souder miller.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☒ Rush ASAP

Project Name:
Huerfano

Project #:

Project Manager:
Ashley Maxwell

Sampler: S. Hinds

On Ice: ~~☐ Yes~~ ☐ No

# of Coolers: 1

Cooler Temp (Including CF): 3.1-0.1=3.0 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2207006	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals TCLP	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA) Full List	8270 (Semi-VOA)	Total Coliform (Present/Absent)	RCI						
6-30-22	10:10	Ag	Non Exempt BGT	(1) 1L Amber	NON	001					X	+		X			X						
				(3) 40mL VOA	$HgCl_2$																		
				(1) 250 ~~125~~ mL Plastic	HNO_3																		
				(1) 500 ~~125~~ mL Plastic	Zn Acetate / NaOH																		
				(1) 500 ~~125~~ mL Plastic	NaOH																		
				(1) 500 ~~125~~ mL Plastic	NON																		

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/30/22	1739	Stphanie Hall	Christine Walt		6/30/22	1739
6/30/22	1820	Christine Walt		courier	7/1/22	6:01

Remarks:
TCPL compounds at TCLP limits.
Invoice Enterprise.
cc Tom Long tjlong@eprod.com

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

Page 601 of 673

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 19, 2022

Ashley Maxwell

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

RE: San Ysidro OrderNo.: 2207008

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/1/2022 for the analyses presented in the following report.

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

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

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

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2207008**
Date Reported: **7/19/2022**

CLIENT: Souder, Miller and Associates
Client Sample ID: Non Exempt BGT
Project: San Ysidro
Collection Date: 6/30/2022 12:55:00 PM
Lab ID: 2207008-001 **Matrix:** AQUEOUS **Received Date:** 7/1/2022 6:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 6020A: TOTAL METALS						Analyst: **DBK**	
Arsenic	ND	5.0		mg/L	1	7/8/2022 2:37:07 PM	68616
Lead	ND	5.0		mg/L	1	7/8/2022 2:37:07 PM	68616
Selenium	ND	1.0		mg/L	1	7/8/2022 2:37:07 PM	68616
EPA METHOD 7470A: MERCURY						Analyst: **VP**	
Mercury	ND	0.020		mg/L	1	7/6/2022 10:53:57 AM	68557
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **JRR**	
Barium	ND	100		mg/L	1	7/11/2022 1:17:57 PM	68616
Cadmium	ND	1.0		mg/L	1	7/11/2022 1:17:57 PM	68616
Chromium	ND	5.0		mg/L	1	7/11/2022 1:17:57 PM	68616
Silver	ND	5.0		mg/L	2	7/11/2022 2:41:43 PM	68616
EPA METHOD 8270SIM						Analyst: **TOM**	
Naphthalene	ND	30	D	µg/L	10	7/13/2022 9:45:00 AM	68515
1-Methylnaphthalene	ND	30	D	µg/L	10	7/13/2022 9:45:00 AM	68515
2-Methylnaphthalene	ND	30	D	µg/L	10	7/13/2022 9:45:00 AM	68515
Acenaphthylene	ND	30	D	µg/L	10	7/13/2022 9:45:00 AM	68515
Acenaphthene	ND	30	D	µg/L	10	7/13/2022 9:45:00 AM	68515
Fluorene	ND	30	D	µg/L	10	7/13/2022 9:45:00 AM	68515
Phenanthrene	ND	30	D	µg/L	10	7/13/2022 9:45:00 AM	68515
Anthracene	ND	30	D	µg/L	10	7/13/2022 9:45:00 AM	68515
Fluoranthene	ND	30	D	µg/L	10	7/13/2022 9:45:00 AM	68515
Pyrene	ND	100	D	µg/L	10	7/13/2022 9:45:00 AM	68515
Benz(a)anthracene	ND	30	D	µg/L	10	7/13/2022 9:45:00 AM	68515
Chrysene	ND	30	D	µg/L	10	7/13/2022 9:45:00 AM	68515
Benzo(b)fluoranthene	ND	30	D	µg/L	10	7/13/2022 9:45:00 AM	68515
Benzo(k)fluoranthene	ND	30	D	µg/L	10	7/13/2022 9:45:00 AM	68515
Benzo(a)pyrene	ND	30	D	µg/L	10	7/13/2022 9:45:00 AM	68515
Dibenz(a,h)anthracene	ND	30	D	µg/L	10	7/13/2022 9:45:00 AM	68515
Benzo(g,h,i)perylene	ND	30	D	µg/L	10	7/13/2022 9:45:00 AM	68515
Indeno(1,2,3-cd)pyrene	ND	30	D	µg/L	10	7/13/2022 9:45:00 AM	68515
Surr: Nitrobenzene-d5	0	31.6-100	SD	%Rec	10	7/13/2022 9:45:00 AM	68515
Surr: 2-Fluorobiphenyl	0	26.7-90.1	SD	%Rec	10	7/13/2022 9:45:00 AM	68515
Surr: 4-Terphenyl-d14	0	72.3-147	SD	%Rec	10	7/13/2022 9:45:00 AM	68515
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.50		mg/L	200	7/8/2022 8:28:33 PM	R89365
Toluene	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
Ethylbenzene	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
Methyl tert-butyl ether (MTBE)	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365

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

Qualifiers:

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

Analytical Report
Lab Order **2207008**
Date Reported: **7/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Non Exempt BGT
Project: San Ysidro
Collection Date: 6/30/2022 12:55:00 PM
Lab ID: 2207008-001 **Matrix:** AQUEOUS **Received Date:** 7/1/2022 6:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,2,4-Trimethylbenzene	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
1,3,5-Trimethylbenzene	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
1,2-Dichloroethane (EDC)	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
1,2-Dibromoethane (EDB)	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
Naphthalene	ND	0.40		mg/L	200	7/8/2022 8:28:33 PM	R89365
1-Methylnaphthalene	ND	0.80		mg/L	200	7/8/2022 8:28:33 PM	R89365
2-Methylnaphthalene	ND	0.80		mg/L	200	7/8/2022 8:28:33 PM	R89365
Acetone	ND	2.0		mg/L	200	7/8/2022 8:28:33 PM	R89365
Bromobenzene	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
Bromodichloromethane	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
Bromoform	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
Bromomethane	ND	0.60		mg/L	200	7/8/2022 8:28:33 PM	R89365
2-Butanone	ND	2.0		mg/L	200	7/8/2022 8:28:33 PM	R89365
Carbon disulfide	ND	2.0		mg/L	200	7/8/2022 8:28:33 PM	R89365
Carbon Tetrachloride	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
Chlorobenzene	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
Chloroethane	ND	0.40		mg/L	200	7/8/2022 8:28:33 PM	R89365
Chloroform	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
Chloromethane	ND	0.60		mg/L	200	7/8/2022 8:28:33 PM	R89365
2-Chlorotoluene	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
4-Chlorotoluene	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
cis-1,2-DCE	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
cis-1,3-Dichloropropene	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
1,2-Dibromo-3-chloropropane	ND	0.40		mg/L	200	7/8/2022 8:28:33 PM	R89365
Dibromochloromethane	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
Dibromomethane	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
1,2-Dichlorobenzene	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
1,3-Dichlorobenzene	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
1,4-Dichlorobenzene	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
Dichlorodifluoromethane	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
1,1-Dichloroethane	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
1,1-Dichloroethene	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
1,2-Dichloropropane	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
1,3-Dichloropropane	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
2,2-Dichloropropane	ND	0.40		mg/L	200	7/8/2022 8:28:33 PM	R89365
1,1-Dichloropropene	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
Hexachlorobutadiene	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
2-Hexanone	ND	2.0		mg/L	200	7/8/2022 8:28:33 PM	R89365
Isopropylbenzene	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207008**
Date Reported: **7/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: Non Exempt BGT
Project: San Ysidro
Collection Date: 6/30/2022 12:55:00 PM
Lab ID: 2207008-001 **Matrix:** AQUEOUS **Received Date:** 7/1/2022 6:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
4-Isopropyltoluene	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
4-Methyl-2-pentanone	ND	2.0		mg/L	200	7/8/2022 8:28:33 PM	R89365
Methylene Chloride	ND	0.60		mg/L	200	7/8/2022 8:28:33 PM	R89365
n-Butylbenzene	ND	0.60		mg/L	200	7/8/2022 8:28:33 PM	R89365
n-Propylbenzene	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
sec-Butylbenzene	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
Styrene	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
tert-Butylbenzene	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
1,1,1,2-Tetrachloroethane	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
1,1,2,2-Tetrachloroethane	ND	0.40		mg/L	200	7/8/2022 8:28:33 PM	R89365
Tetrachloroethene (PCE)	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
trans-1,2-DCE	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
trans-1,3-Dichloropropene	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
1,2,3-Trichlorobenzene	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
1,2,4-Trichlorobenzene	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
1,1,1-Trichloroethane	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
1,1,2-Trichloroethane	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
Trichloroethene (TCE)	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
Trichlorofluoromethane	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
1,2,3-Trichloropropane	ND	0.40		mg/L	200	7/8/2022 8:28:33 PM	R89365
Vinyl chloride	ND	0.20		mg/L	200	7/8/2022 8:28:33 PM	R89365
Xylenes, Total	ND	0.30		mg/L	200	7/8/2022 8:28:33 PM	R89365
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	200	7/8/2022 8:28:33 PM	R89365
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	200	7/8/2022 8:28:33 PM	R89365
Surr: Dibromofluoromethane	105	70-130		%Rec	200	7/8/2022 8:28:33 PM	R89365
Surr: Toluene-d8	97.5	70-130		%Rec	200	7/8/2022 8:28:33 PM	R89365

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Pace Analytical®

ANALYTICAL REPORT

July 15, 2022

Hall Environmental Analysis Laboratory

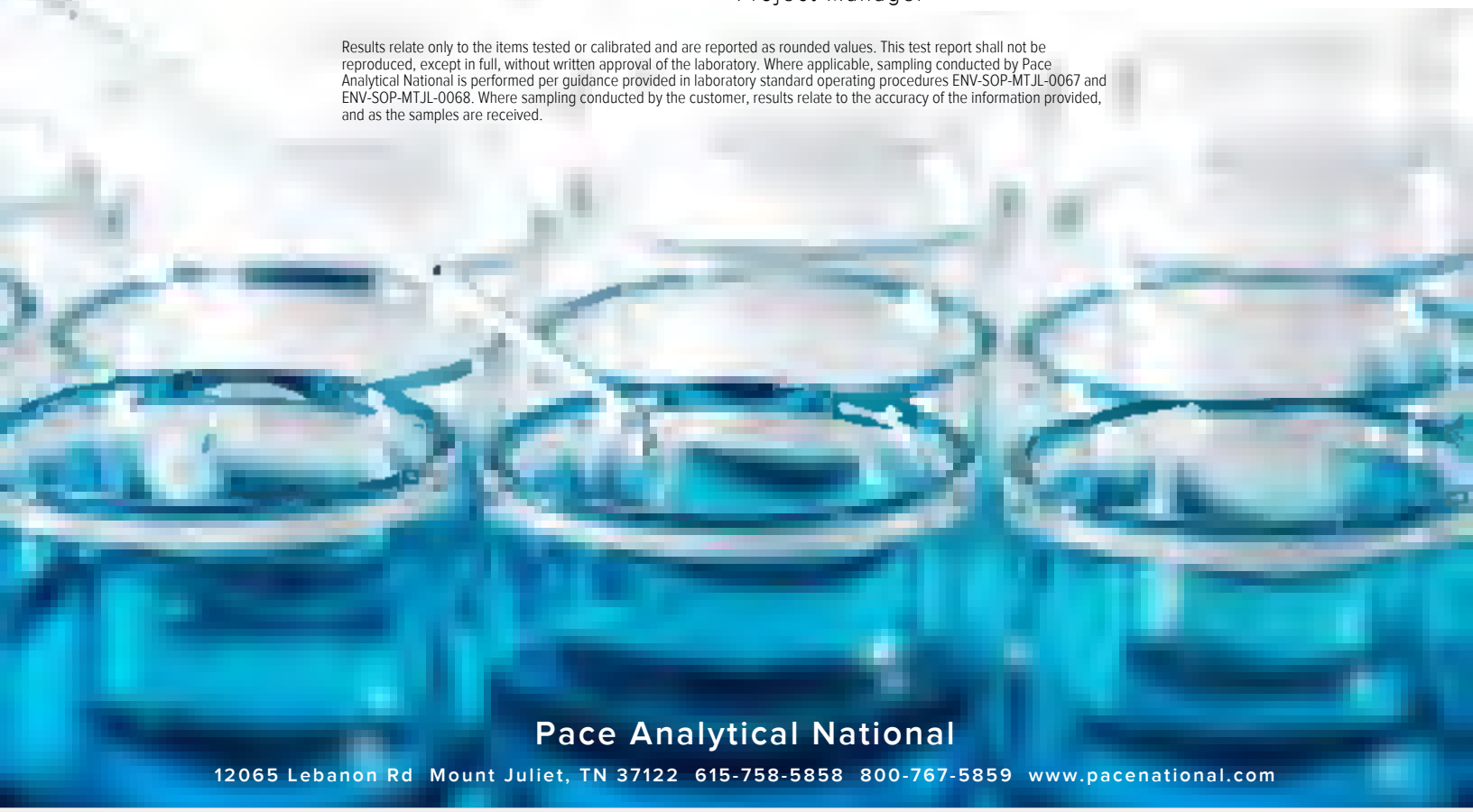
Sample Delivery Group:	L1511807
Samples Received:	07/06/2022
Project Number:	
Description:	

Report To: Andy Freeman
4901 Hawkins NE
Albuquerque, NM 87109

Entire Report Reviewed By: John V Hawkins

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

TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

2207008-001D NON EXEMPT BGT L1511807-01 5

Qc: Quality Control Summary 6

Wet Chemistry by Method 4500 CN E-2016 6

Wet Chemistry by Method 4500 S2 D-2011 7

Wet Chemistry by Method 4500H+ B-2011 8

Wet Chemistry by Method D93/1010A 9

Gl: Glossary of Terms 10

Al: Accreditations & Locations 11

Sc: Sample Chain of Custody 12

SAMPLE SUMMARY

2207008-001D NON EXEMPT BGT L1511807-01 WW

Collected by	Collected date/time	Received date/time
	06/30/22 12:55	07/06/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 4500 CN E-2016	WG1893803	1	07/12/22 19:14	07/13/22 10:57	LDT	Mt. Juliet, TN
Wet Chemistry by Method 4500 S2 D-2011	WG1890777	1	07/06/22 15:06	07/06/22 15:06	ARS	Mt. Juliet, TN
Wet Chemistry by Method 4500H+ B-2011	WG1891814	1	07/08/22 16:26	07/08/22 16:26	NTG	Mt. Juliet, TN
Wet Chemistry by Method D93/1010A	WG1892737	1	07/11/22 03:00	07/11/22 03:00	RMR	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

John Hawkins
Project Manager

Project Narrative

All Reactive Cyanide results reported in the attached report were determined as totals using method 4500 CN E-2016.
All Reactive Sulfide results reported in the attached report were determined as totals using method 4500 S2 D-2011.

Sample Delivery Group (SDG) Narrative

Analysis was performed from an improper container for the following samples.

Lab Sample ID	Project Sample ID	Method
L1511807-01	2207008-001D NON EXEMPT BGT	4500 CN E-2016

Wet Chemistry by Method 4500 CN E-2016

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Cyanide	ND		0.00500	1	07/13/2022 10:57	WG1893803

Wet Chemistry by Method 4500 S2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Reactive Sulfide	0.132		0.0500	1	07/06/2022 15:06	WG1890777

Wet Chemistry by Method 4500H+ B-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
Corrosivity by pH	5.77	T8	1	07/08/2022 16:26	WG1891814

Sample Narrative:

L1511807-01 WG1891814: 5.77 at 22C

Wet Chemistry by Method D93/1010A

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	deg F			date / time	
Flashpoint	DNF at 170		1	07/11/2022 03:00	WG1892737

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R3814178-1 07/13/22 10:39

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Reactive Cyanide	U		0.00180	0.00500

L1511782-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1511782-03 07/13/22 10:48 • (DUP) R3814178-3 07/13/22 10:51

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Reactive Cyanide	ND	ND	1	53.3	P1	20

L1511925-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1511925-02 07/13/22 10:58 • (DUP) R3814178-6 07/13/22 10:59

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Reactive Cyanide	0.00605	ND	1	200	P1	20

Laboratory Control Sample (LCS)

(LCS) R3814178-2 07/13/22 10:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Cyanide	0.100	0.0936	93.6	87.1-120	

L1511782-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1511782-03 07/13/22 10:48 • (MS) R3814178-4 07/13/22 10:52 • (MSD) R3814178-5 07/13/22 10:53

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	ND	0.0948	0.0919	92.8	89.9	1	90.0-110		J6	3.11	20

L1511925-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1511925-02 07/13/22 10:58 • (MS) R3814178-7 07/13/22 11:00 • (MSD) R3814178-8 07/13/22 11:03

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	0.00605	0.0971	0.0935	91.1	87.5	1	90.0-110		J6	3.78	20

Method Blank (MB)

(MB) R3811504-1 07/06/22 15:02

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Reactive Sulfide	U		0.0250	0.0500

Laboratory Control Sample (LCS)

(LCS) R3811504-2 07/06/22 15:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Reactive Sulfide	0.500	0.480	96.0	85.0-115	

Received by OCD: 10/2/2023 3:49:18 PM

Laboratory Control Sample (LCS)

(LCS) R3812662-1 07/08/22 16:26

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
Corrosivity by pH	10.0	9.90	99.0	99.0-101	

Sample Narrative:

LCS: 9.9 at 24C

Released to Imaging: 10/2/2023 4:00:31 PM

L1511699-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1511699-01 07/11/22 03:00 • (DUP) R3813342-3 07/11/22 03:00

Analyte	Original Result deg F	DUP Result deg F	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Flashpoint	138	138	1	0.000		10

L1511807-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1511807-01 07/11/22 03:00 • (DUP) R3813342-4 07/11/22 03:00

Analyte	Original Result deg F	DUP Result deg F	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Flashpoint	DNF at 170	DNF at 170	1	0.000		10

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3813342-1 07/11/22 03:00 • (LCSD) R3813342-2 07/11/22 03:00

Analyte	Spike Amount deg F	LCS Result deg F	LCSD Result deg F	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Flashpoint	126	122	130	96.8	103	96.0-104			6.35	10

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
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 Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

E150

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975
FAX: 505-345-4107
Website: www.hallenvironmental.com

SUB CONTRATOR:	Pace TN	COMPANY: PACE TN	PHONE: (800) 767-5859	FAX: (615) 758-5859	
ADDRESS:	12065 Lebanon Rd		ACCOUNT #:	EMAIL:	
CITY, STATE, ZIP:	Mt. Juliet, TN 37122				

4511807

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2207008-001D	Non Exempt BGT	500HDPE	Aqueous	6/30/2022 12:55:00 PM	3	RCI **5 Day TAT** -01

Sample Receipt Checklist

COC Seal Present Intact: ✓Y N
COC Signed/Accurate: ✓Y N
Bottles arrive intact: ✓Y N
Correct bottles used: ✓Y N
Sufficient volume sent: ✓Y N
RAD Screen <0.5 mR hr: ✓Y N

If Applicable
VOA Zero Headspace: Y N
Pres.Correct/Check: Y N

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By: CMC	Date: 7/1/2022	Time: 8:00 AM	Received By: Jen C Edd	Date: 7/1/22	Time: 9:15
Relinquished By:	Date:	Time:	Received By:	Date	Time
Relinquished By:	Date:	Time	Received By:	Date	Time

TAT: Standard ☐ RUSH Next BD ☐ 2nd BD ☐ 3rd BD ☐

REPORT TRANSMITTAL DESIRED
☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY
Temp of samples DRAM .9+0.4 °C Attempt to Cool? _____
Comments _____

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207008**

19-Jul-22

Client: Souder, Miller and Associates

Project: San Ysidro

Sample ID: **MB-68616**	SampType: **MBLK**	TestCode: **EPA Method 6020A: Total Metals**
Client ID: **PBW**	Batch ID: **68616**	RunNo: **89337**
Prep Date: **7/7/2022**	Analysis Date: **7/8/2022**	SeqNo: **3177790** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Lead	ND	0.0010								
Selenium	ND	0.0010								

Sample ID: **MSLLLCS-68616**	SampType: **LCSLL**	TestCode: **EPA Method 6020A: Total Metals**
Client ID: **BatchQC**	Batch ID: **68616**	RunNo: **89337**
Prep Date: **7/7/2022**	Analysis Date: **7/8/2022**	SeqNo: **3177791** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010	0.001000	0	98.7	70	130			
Lead	0.0010	0.0010	0.001000	0	103	70	130			
Selenium	ND	0.0010	0.001000	0	81.2	70	130			

Sample ID: **MSLCS-68616**	SampType: **LCS**	TestCode: **EPA Method 6020A: Total Metals**
Client ID: **LCSW**	Batch ID: **68616**	RunNo: **89337**
Prep Date: **7/7/2022**	Analysis Date: **7/8/2022**	SeqNo: **3177792** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.049	0.0010	0.05000	0	98.2	80	120			
Lead	0.048	0.0010	0.05000	0	96.1	80	120			
Selenium	0.052	0.0010	0.05000	0	105	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207008**

19-Jul-22

Client: Souder, Miller and Associates

Project: San Ysidro

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R89365**	RunNo: **89365**
Prep Date:	Analysis Date: **7/8/2022**	SeqNo: **3178930** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	108	70	130			
Toluene	20	1.0	20.00	0	99.9	70	130			
Chlorobenzene	20	1.0	20.00	0	100	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	99.6	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	107	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		109	70	130			
Surr: Dibromofluoromethane	10		10.00		102	70	130			
Surr: Toluene-d8	9.7		10.00		96.7	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R89365**	RunNo: **89365**
Prep Date:	Analysis Date: **7/8/2022**	SeqNo: **3178934** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207008**

19-Jul-22

Client: Souder, Miller and Associates

Project: San Ysidro

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R89365**	RunNo: **89365**
Prep Date:	Analysis Date: **7/8/2022**	SeqNo: **3178934** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207008**

19-Jul-22

Client: Souder, Miller and Associates

Project: San Ysidro

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R89365**	RunNo: **89365**
Prep Date:	Analysis Date: **7/8/2022**	SeqNo: **3178934** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	9.8		10.00		98.5	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207008**

19-Jul-22

Client: Souder, Miller and Associates

Project: San Ysidro

Sample ID: **lcs-68515**	SampType: **LCS**	TestCode: **EPA Method 8270SIM**							
Client ID: **LCSW**	Batch ID: **68515**	RunNo: **89437**							
Prep Date: **7/1/2022**	Analysis Date: **7/13/2022**	SeqNo: **3187425**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.70	0.30	2.000	0	35.0	21.3	79.9			
1-Methylnaphthalene	0.60	0.30	2.000	0	30.0	22.2	80.3			
2-Methylnaphthalene	0.56	0.30	2.000	0	28.0	20.6	80.1			
Acenaphthylene	0.90	0.30	2.000	0	45.0	36.9	87.2			
Acenaphthene	0.80	0.30	2.000	0	40.0	29.8	82.7			
Fluorene	0.96	0.30	2.000	0	48.0	33.3	86			
Phenanthrene	1.3	0.30	2.000	0	67.0	38.2	93.9			
Anthracene	1.3	0.30	2.000	0	66.0	41.1	95.6			
Fluoranthene	1.6	0.30	2.000	0	81.0	52.9	123			
Pyrene	1.6	1.0	2.000	0	79.0	51	113			
Benz(a)anthracene	1.7	0.30	2.000	0	84.0	51	147			
Chrysene	1.7	0.30	2.000	0	85.0	55.3	115			
Benzo(b)fluoranthene	1.8	0.30	2.000	0	89.0	44.4	136			
Benzo(k)fluoranthene	1.7	0.30	2.000	0	84.0	56.9	121			
Benzo(a)pyrene	1.7	0.30	2.000	0	83.0	48.7	134			
Dibenz(a,h)anthracene	1.8	0.30	2.000	0	88.0	39.9	137			
Benzo(g,h,i)perylene	1.7	0.30	2.000	0	87.0	44.2	128			
Indeno(1,2,3-cd)pyrene	1.9	0.30	2.000	0	95.0	31.4	165			
Surr: Nitrobenzene-d5	4.1		5.000		82.0	31.6	100			
Surr: 2,4,6-Tribromophenol	6.5		10.00		64.8	22	101			
Surr: 2-Fluorobiphenyl	3.7		5.000		73.2	26.7	90.1			
Surr: 4-Terphenyl-d14	6.1		5.000		123	72.3	147			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207008**

19-Jul-22

Client: Souder, Miller and Associates

Project: San Ysidro

Sample ID: **MB-68557**	SampType: **MBLK**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **PBW**	Batch ID: **68557**	RunNo: **89254**
Prep Date: **7/5/2022**	Analysis Date: **7/6/2022**	SeqNo: **3173465** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID: **LCSLL-68557**	SampType: **LCSLL**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **BatchQC**	Batch ID: **68557**	RunNo: **89254**
Prep Date: **7/5/2022**	Analysis Date: **7/6/2022**	SeqNo: **3173466** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020	0.0001500	0	84.7	50	150			

Sample ID: **LCS-68557**	SampType: **LCS**	TestCode: **EPA Method 7470A: Mercury**
Client ID: **LCSW**	Batch ID: **68557**	RunNo: **89254**
Prep Date: **7/5/2022**	Analysis Date: **7/6/2022**	SeqNo: **3173467** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0047	0.00020	0.005000	0	94.8	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207008**

19-Jul-22

Client: Souder, Miller and Associates

Project: San Ysidro

Sample ID:	**MB-68616**	SampType:	**MBLK**	TestCode:	**EPA 6010B: Total Recoverable Metals**
Client ID:	**PBW**	Batch ID:	**68616**	RunNo:	**89369**
Prep Date:	**7/7/2022**	Analysis Date:	**7/11/2022**	SeqNo:	**3179046** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Silver	ND	0.0050								

Sample ID:	**LCS-68616**	SampType:	**LCS**	TestCode:	**EPA 6010B: Total Recoverable Metals**
Client ID:	**LCSW**	Batch ID:	**68616**	RunNo:	**89369**
Prep Date:	**7/7/2022**	Analysis Date:	**7/11/2022**	SeqNo:	**3179048** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.44	0.0020	0.5000	0	88.5	80	120			
Cadmium	0.45	0.0020	0.5000	0	89.3	80	120			
Chromium	0.44	0.0060	0.5000	0	88.0	80	120			
Silver	0.093	0.0050	0.1000	0	93.2	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Souder, Miller and Associates | Work Order Number: 2207008 | RcptNo: 1

Received By: Juan Rojas 7/1/2022 6:05:00 AM

Completed By: Cheyenne Cason 7/1/2022 7:58:57 AM

Reviewed By: 7-1-22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	JR 7/1/22
8. Was preservative added to bottles?	Yes ☑	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☑	No ☐	NA ☐
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: 2 (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted? Yes
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by: JR 7/1/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: ____ Date: ____

By Whom: ____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: ____

Client Instructions: ____

16. Additional remarks: 0.5ml of HNO3 was added to sample 001C for pH<2. JR 7/1/22

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.0	Good	Not Present			

Released to Imaging: 10/2/2023 4:00:31 PM
Received by OCD: 10/2/2023 3:49:18 PM

Chain-of-Custody Record

Client: Souder Miller + Associates

Mailing Address: 401 W. Broadway
Farmington NM 87401

Phone #: 505-325-7535

email or Fax#: ashley.maxwell@souder miller.com

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☒ Rush ASAP

Project Name:
San Ysidro

Project #:

Project Manager:
Ashley Maxwell

Sampler: SH

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 3.1-0.1=3.0 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

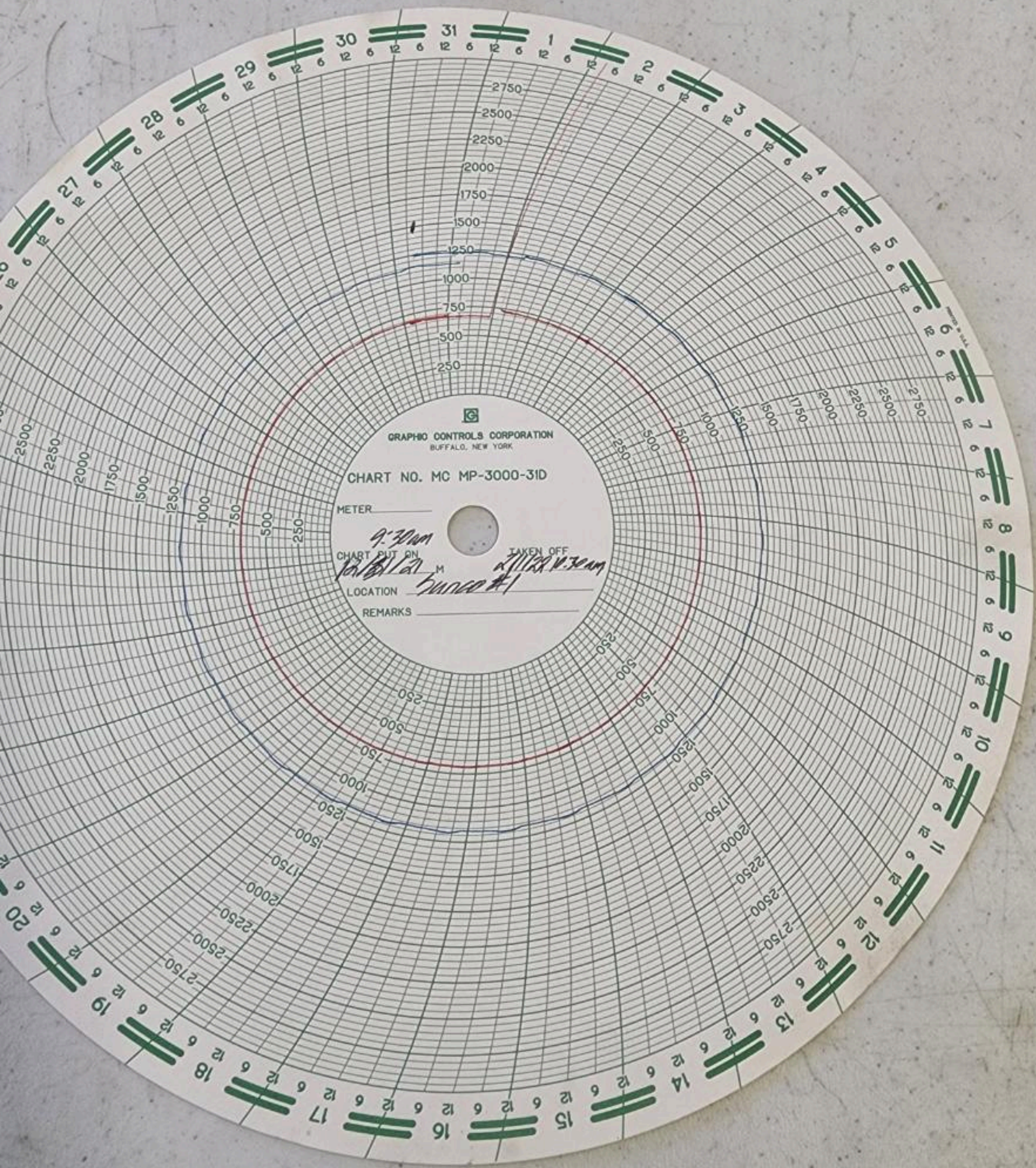
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2207008	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals TCLP	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA) Full List	8270 (Semi-VOA)	Total Coliform (Present/Absent)	RCI
6-30-22	12:45	Ag	Non Exempt BGT	(1) 1L Amber	NON	GCI					X	X		X			X
				(3) 40mL VOA	$HyCl_2$												
				(1) ~~125~~ 250 mL Plastic	HNO_3												
				(1) ~~125~~ 500 mL Plastic	Zn Acetate / NaOH												
				(1) ~~125~~ 500 mL Plastic	NaOH												
				(1) ~~125~~ 500 mL Plastic	NON												

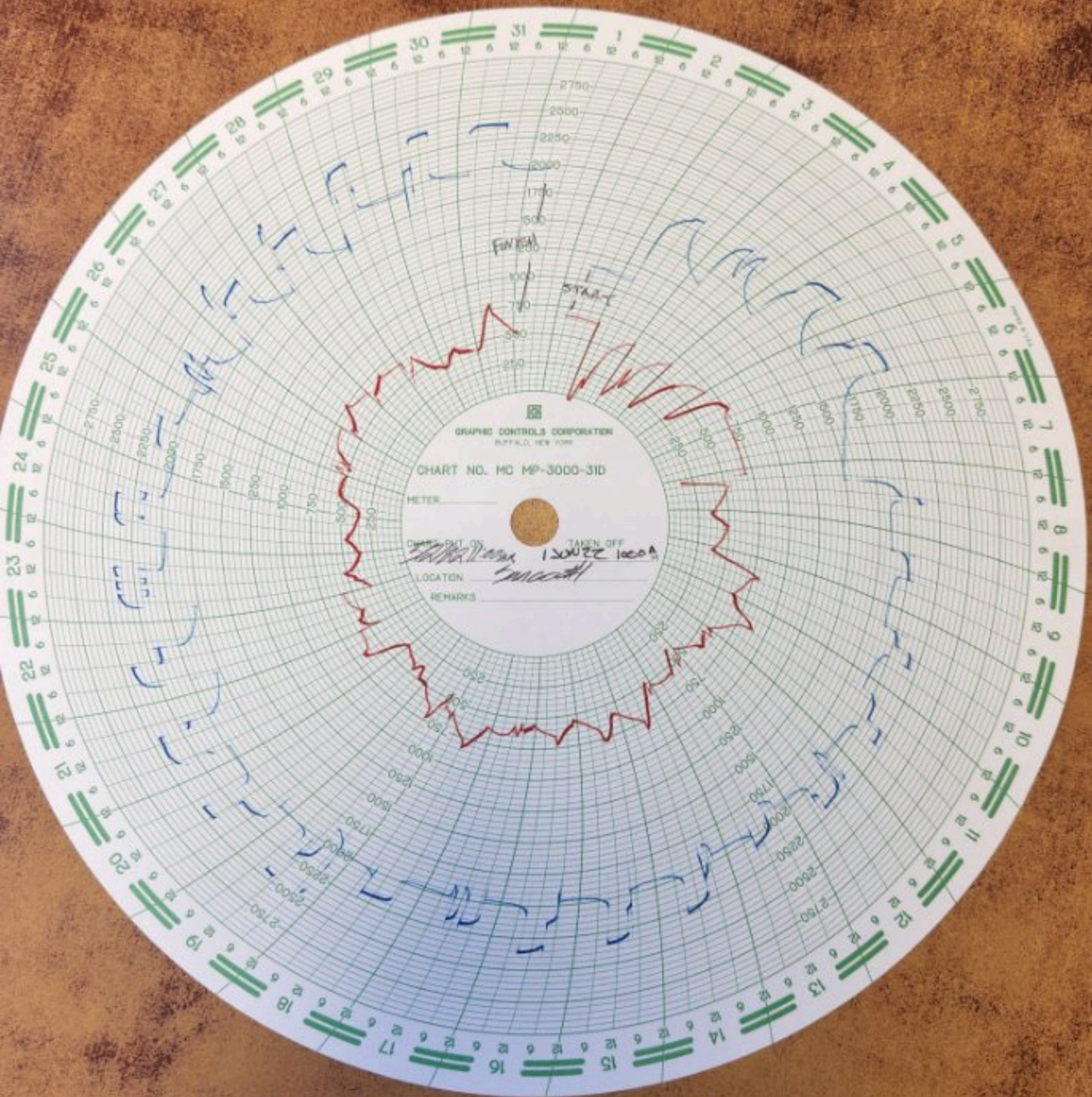
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/30/22	1739	Stephanie Hurt	[illegible]	Walk	6/30/22	1739
6/30/22	1820	[illegible]	[illegible]	courier	7/1/22	6:05

Remarks:
TCPL Compounds at TCLP limits
Invoice Enterprise.
cc Tom Long tjlong@eprod.com

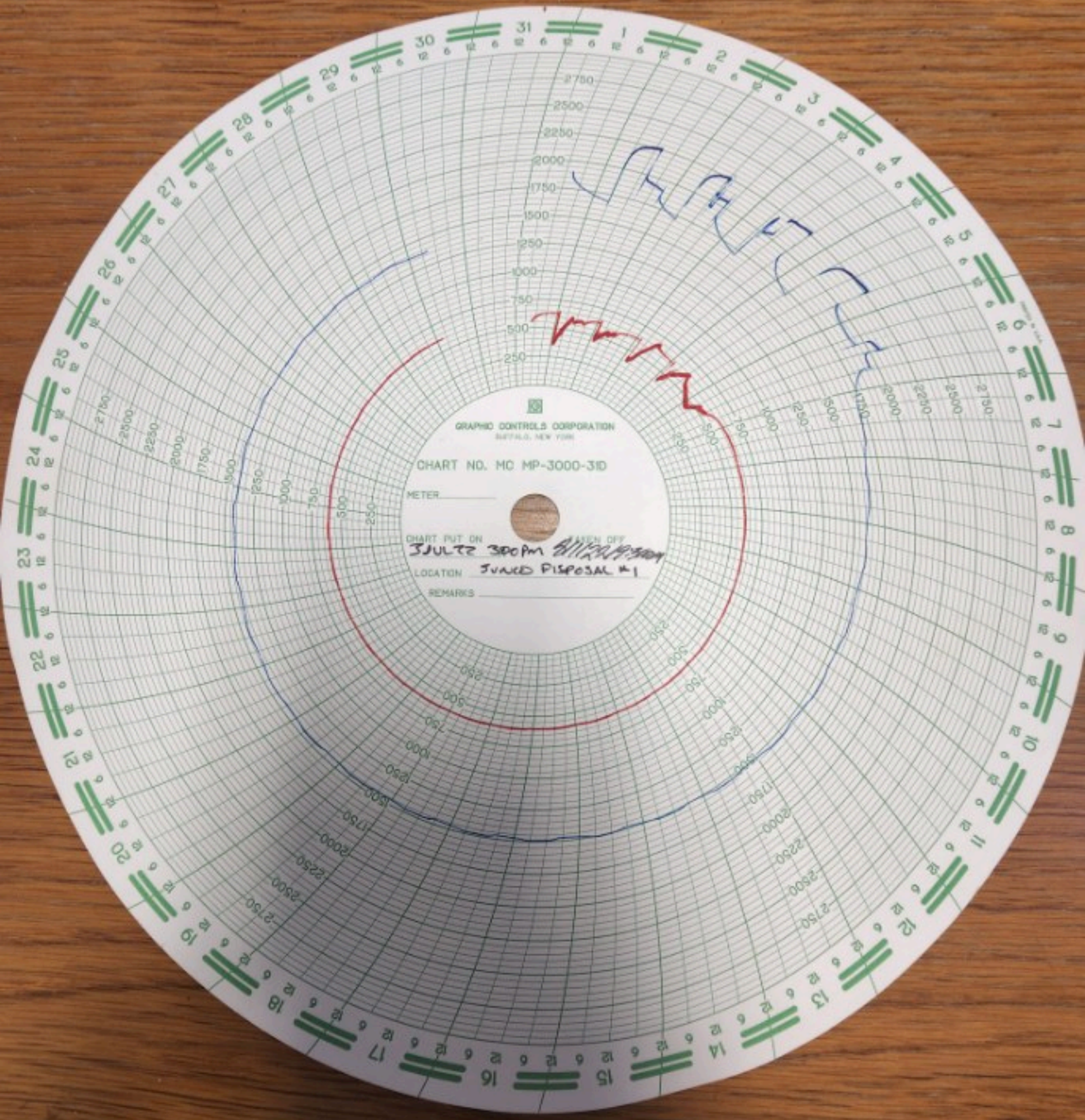
If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Appendix D

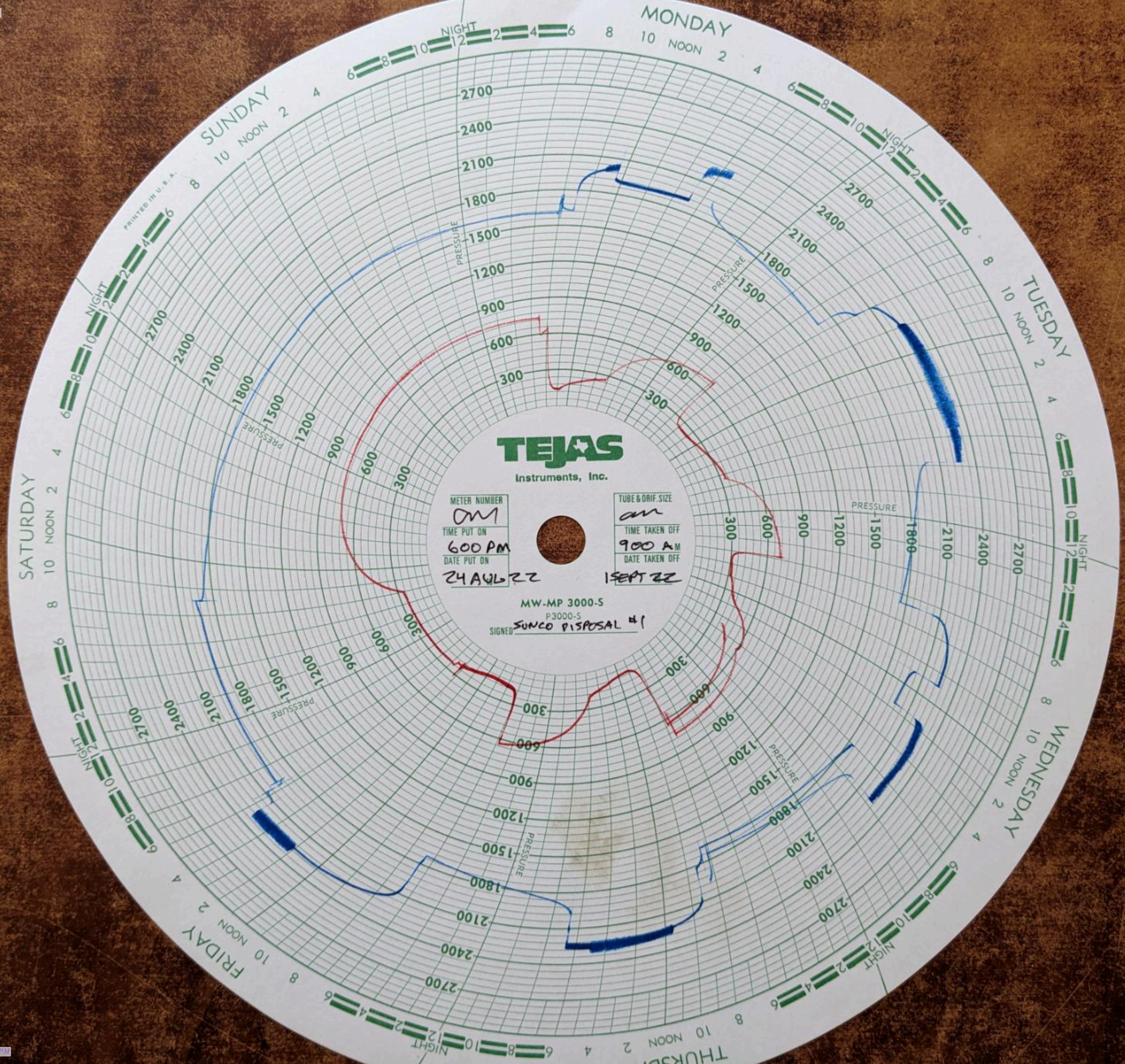

GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
CHART NO. MC MP-3000-31D
METER
CHART PUT ON
TAKEN OFF
LOCATION
REMARKS


GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
CHART NO. MC MP-3000-31D
METER
LOCATION
REMARKS
TAKEN OFF
FINISH
START


GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
CHART NO. MC MP-3000-31D
METER
CHART PUT ON
JUN 22 1900AM
TAKEN OFF
LOCATION
SUNCO DISPOSAL #1
REMARKS

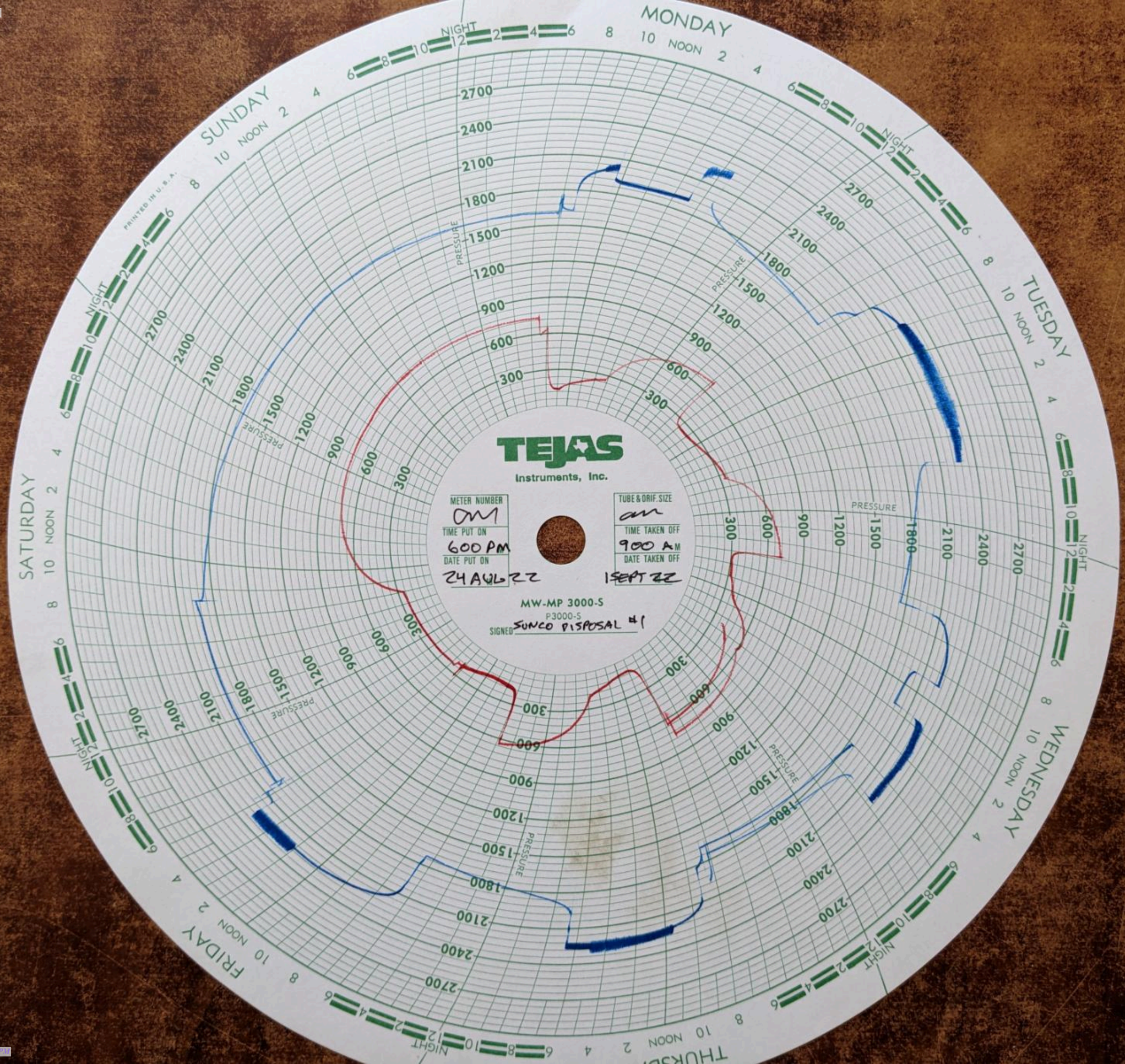

GRAPHIC CONTROLS CORPORATION
CHART NO. MC MP-3000-31D
METER
CHART PUT ON
TAKEN OFF
LOCATION
REMARKS

Received by OCD: 10/2/2023 3:49:18 PM

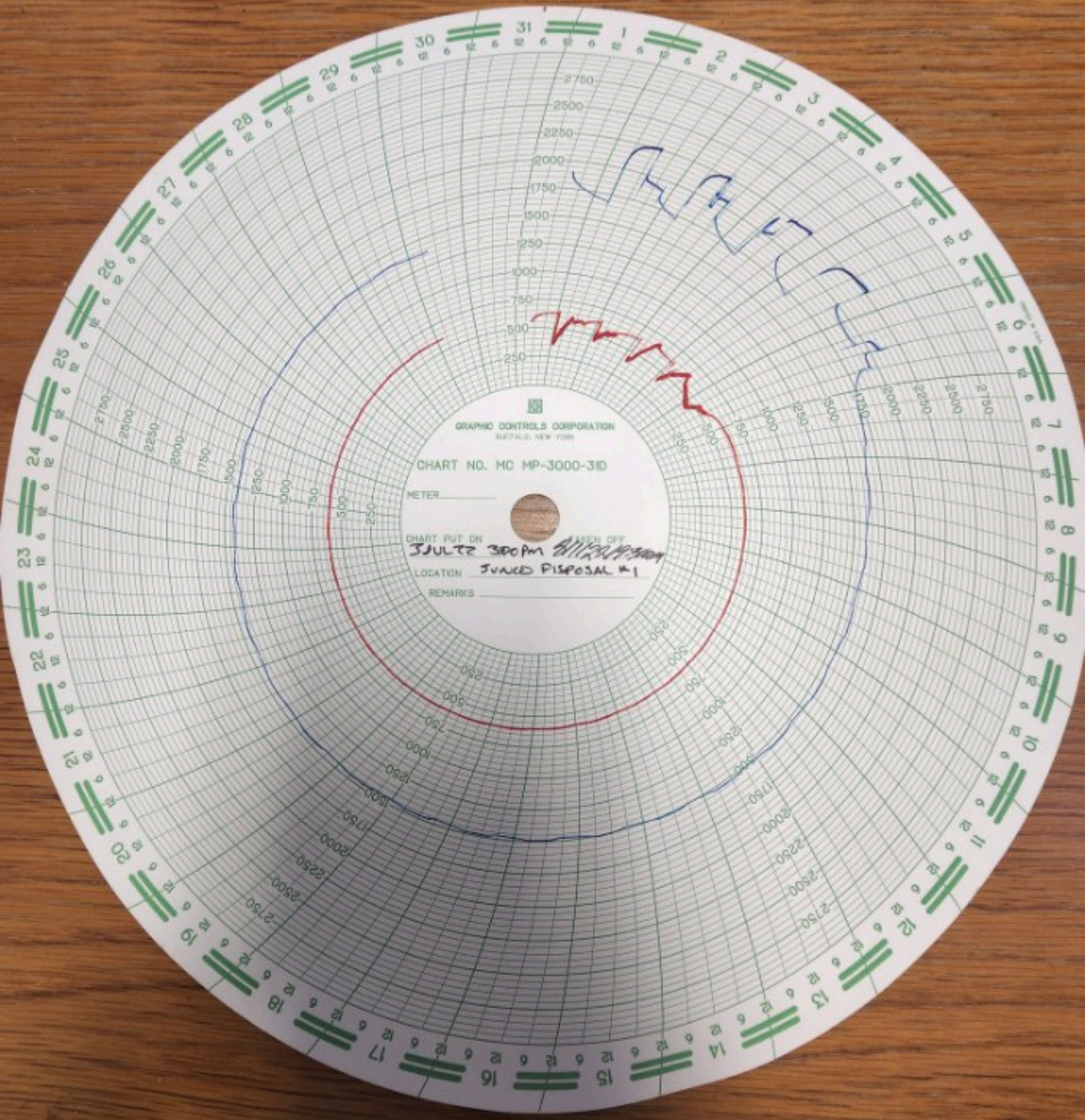


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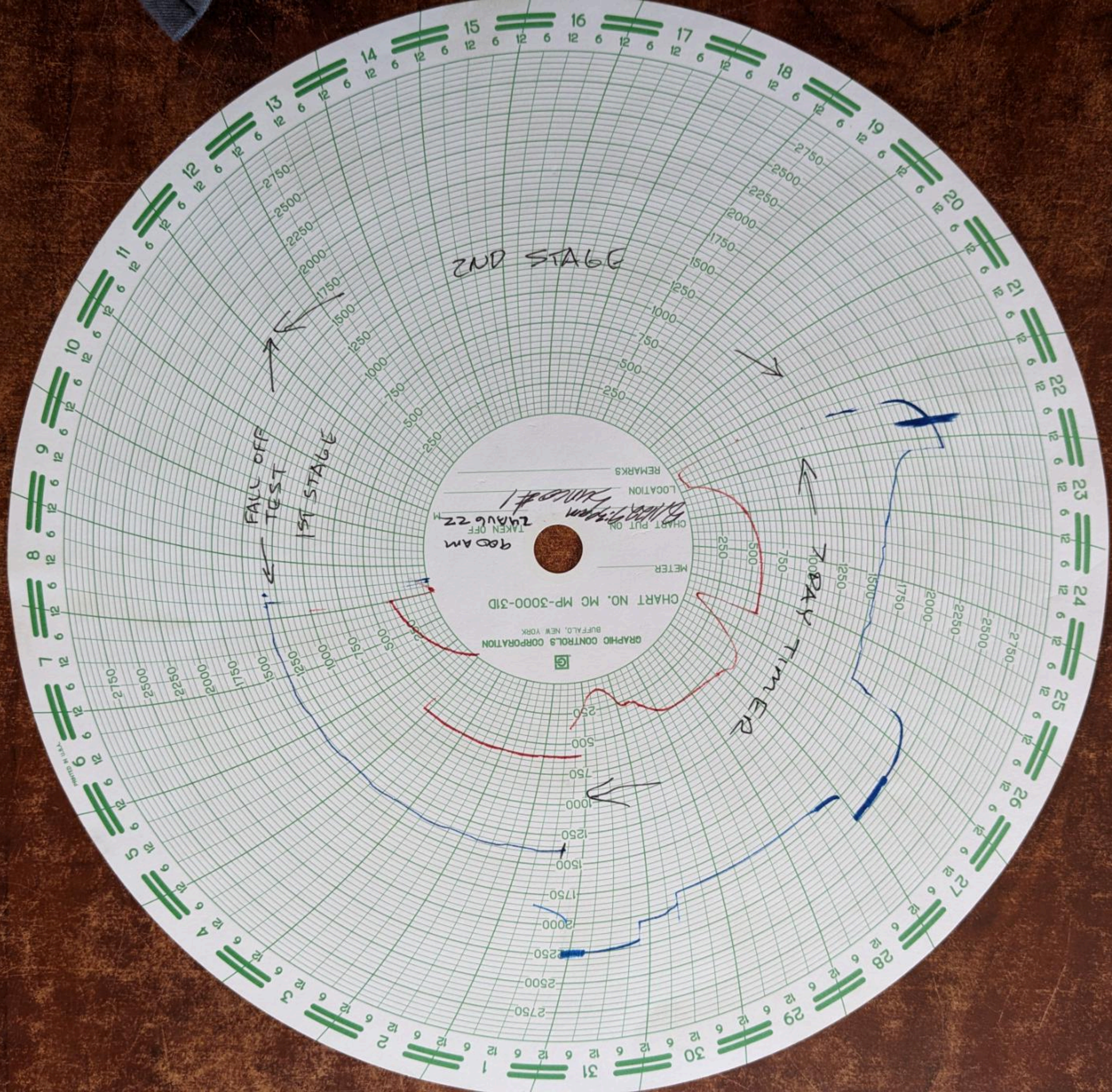
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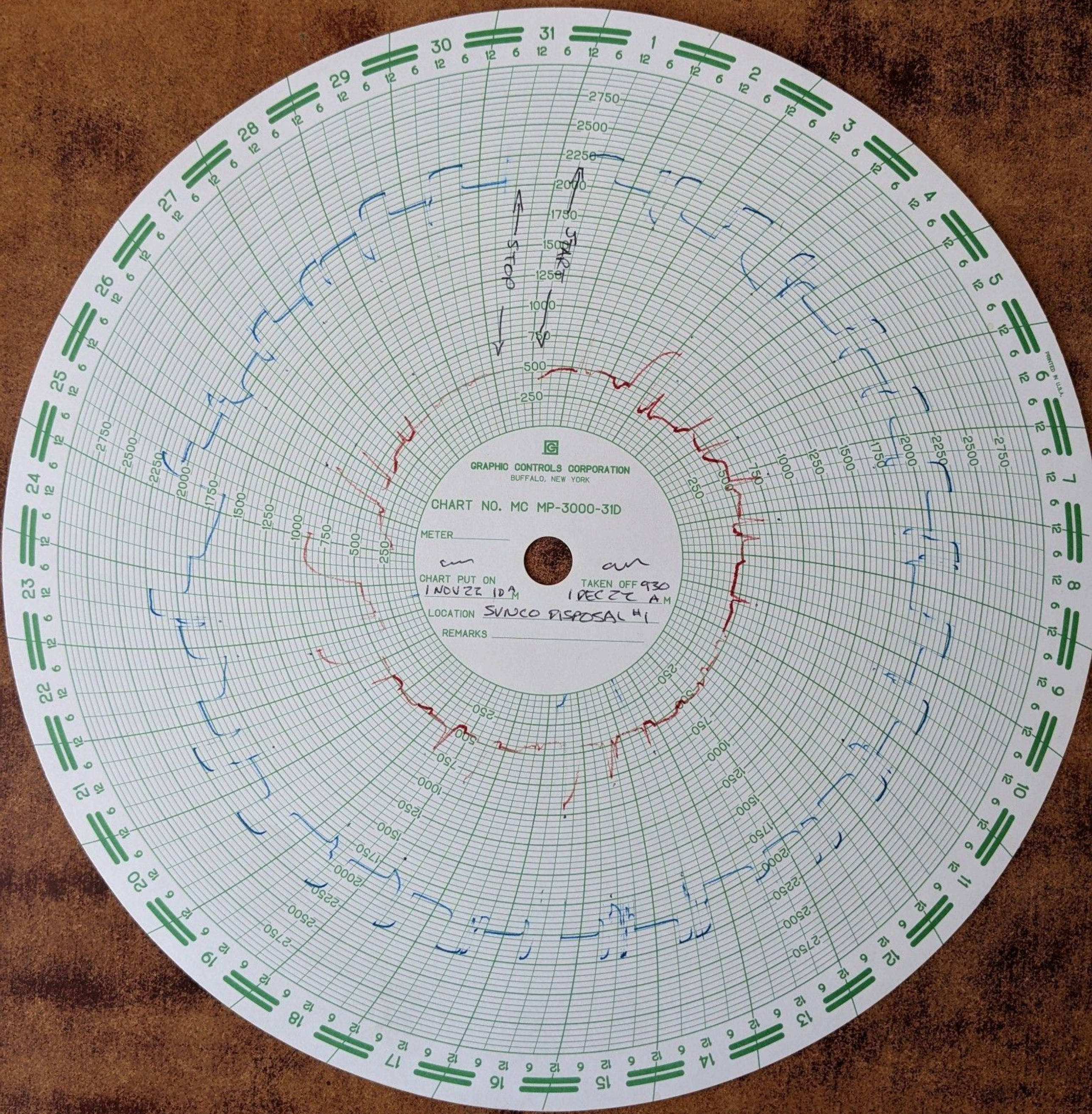

GRAPHIC CONTROLS CORPORATION
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METER
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LOCATION
JUNCO DISPOSAL #1
REMARKS

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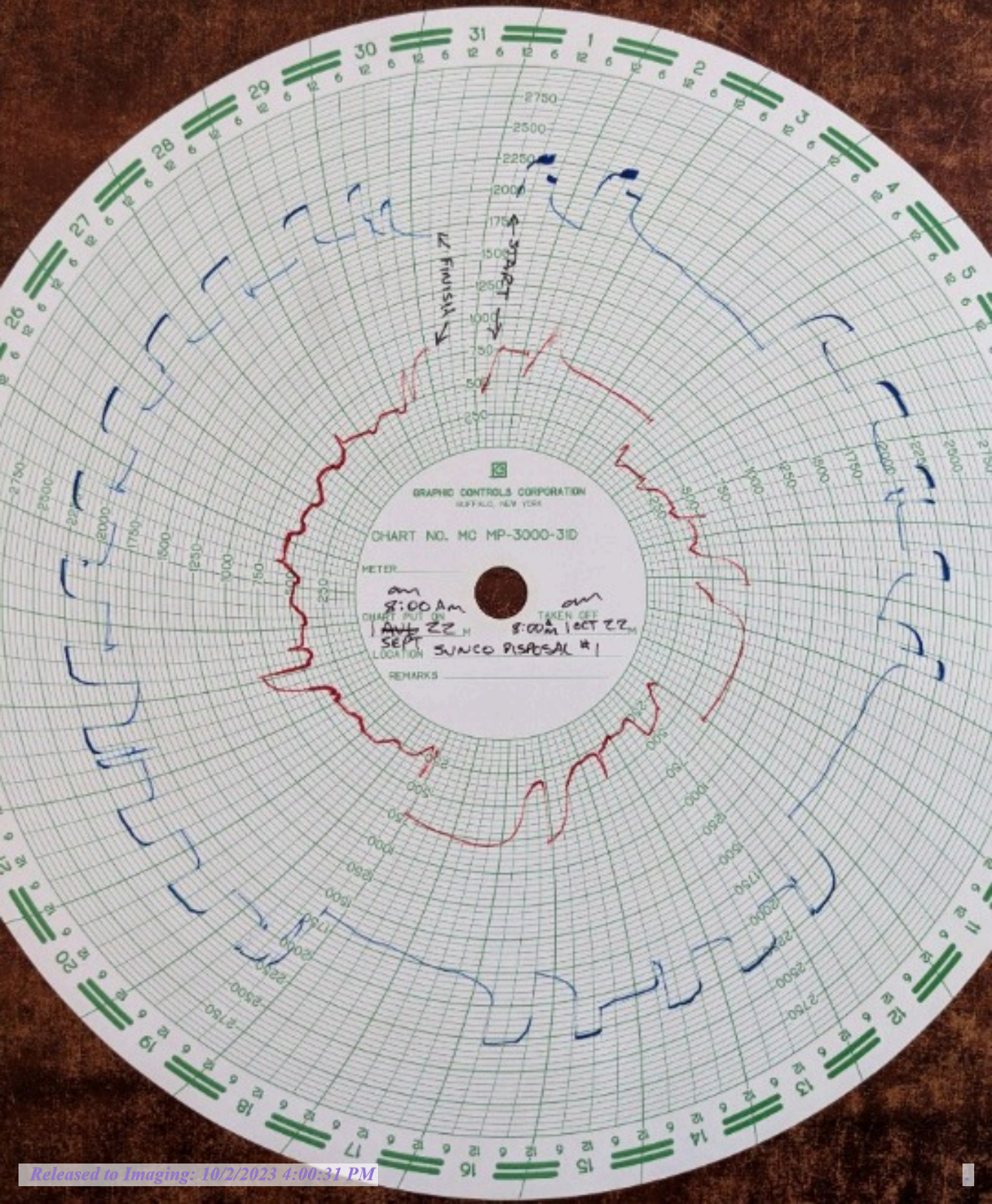


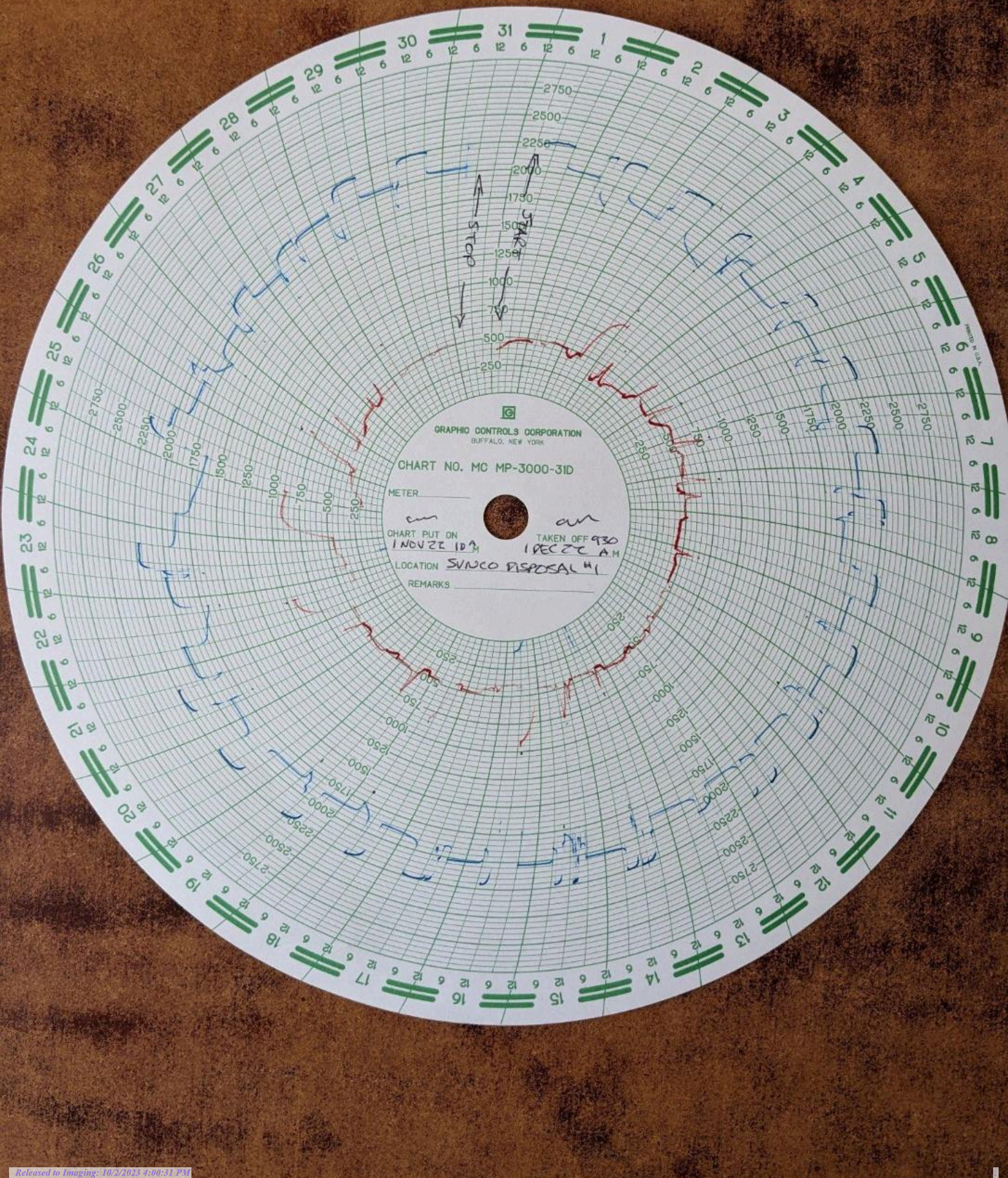
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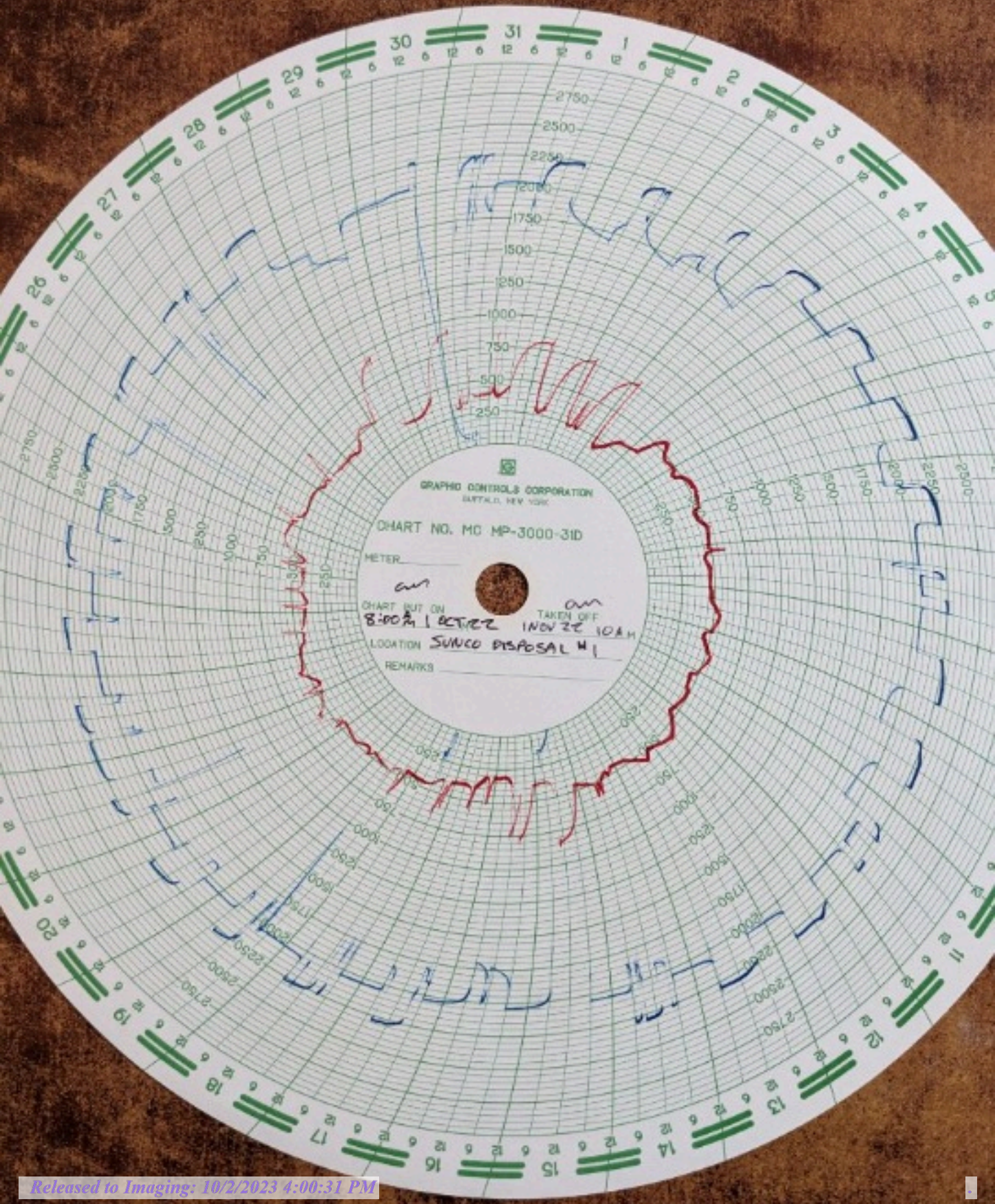
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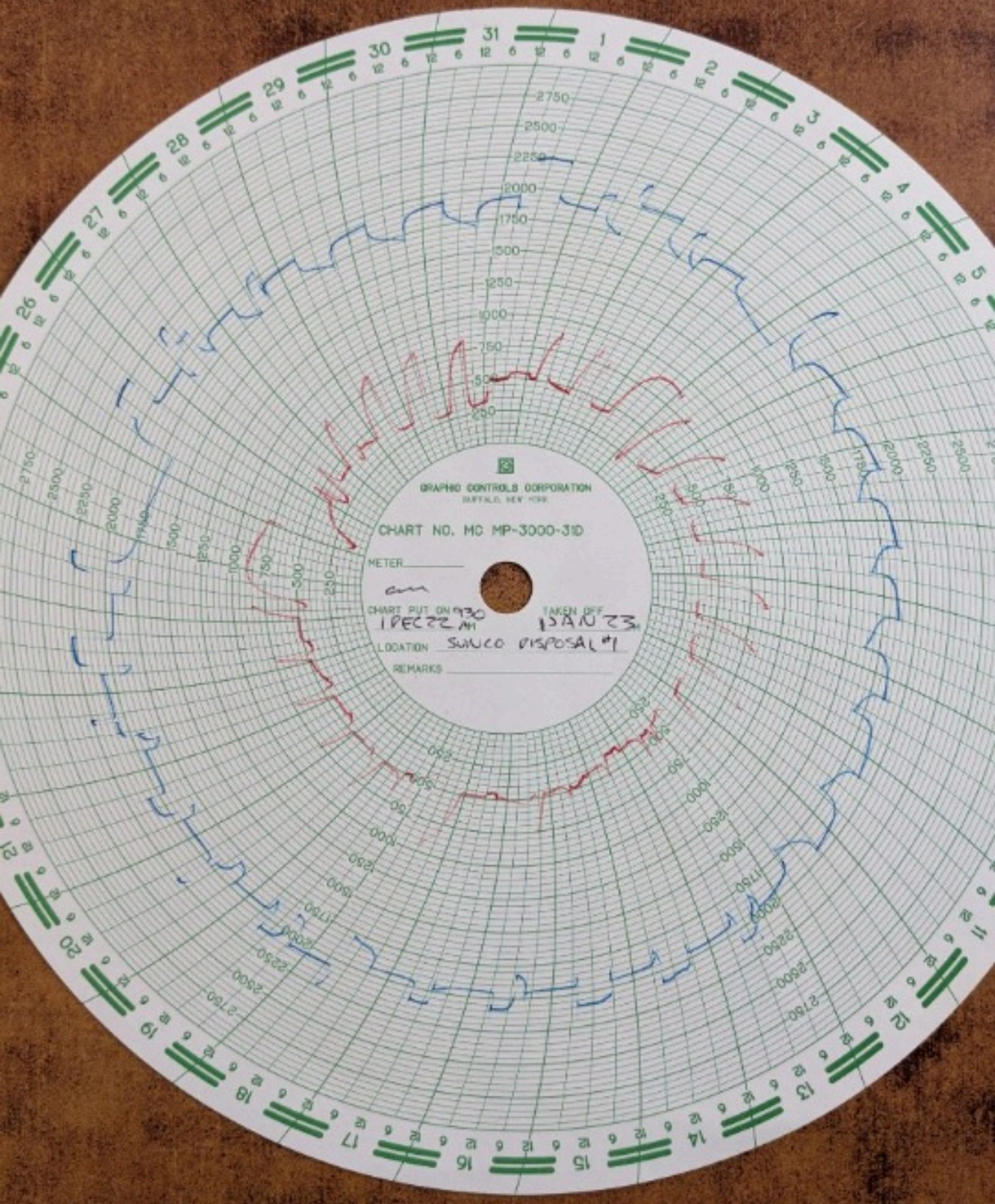


Released to Imaging: 10/2/2023 4:00:31 PM


GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
CHART NO. MC MP-3000-31D
METER
CHART PUT ON
8:00 AM
SEPT 22
TAKEN OFF
8:00 AM OCT 22
LOCATION SUNCO DISPOSAL #1
REMARKS
START
FINISH


GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
CHART NO. MC MP-3000-31D
METER
CHART PUT ON 1 NOV 22 10 AM
TAKEN OFF 930 1 DEC 22 AM
LOCATION SUNCO DISPOSAL #1
REMARKS
START
STOP


GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
CHART NO. MC MP-3000-31D
METER
CHART PUT ON
8:00AM 18 OCT 22
TAKEN OFF
10AM 1 NOV 22
LOCATION SUNCO DISPOSAL #1
REMARKS


GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
CHART NO. MC MP-3000-31D
METER
CHART PUT ON 930
1 DEC 22 AM
TAKEN OFF
1 JAN 23
LOCATION SUNCO DISPOSAL #1
REMARKS

Appendix E

2022 AREA OF REVIEW
UNIT LETTERS ENCOMPASSED BY THE 2-MILE AOR

Sec	TWN	RNG	UL	
1	29N	12W	ALL	
2	29N	12W	ALL	
3	29N	12W	ALL	
4	29N	12W	ACFJKNP	
9	29N	12W	ABH	
10	29N	12W	ABCDIJN	
11	29N	12W	ACDGHILOP	
12	29N	12W	AEFKM	
25	30N	12W	EMN	
26	30N	12W	FGLNOP	
27	30N	12W	LMP	
28	30N	12W	O	
33	30N	12W	GHIJK	
34	30N	12W	ALL	
35	30N	12W	ALL	
36	30N	12W	AEIMN	

Radius expanded to 2 miles for permit renewal requirements.

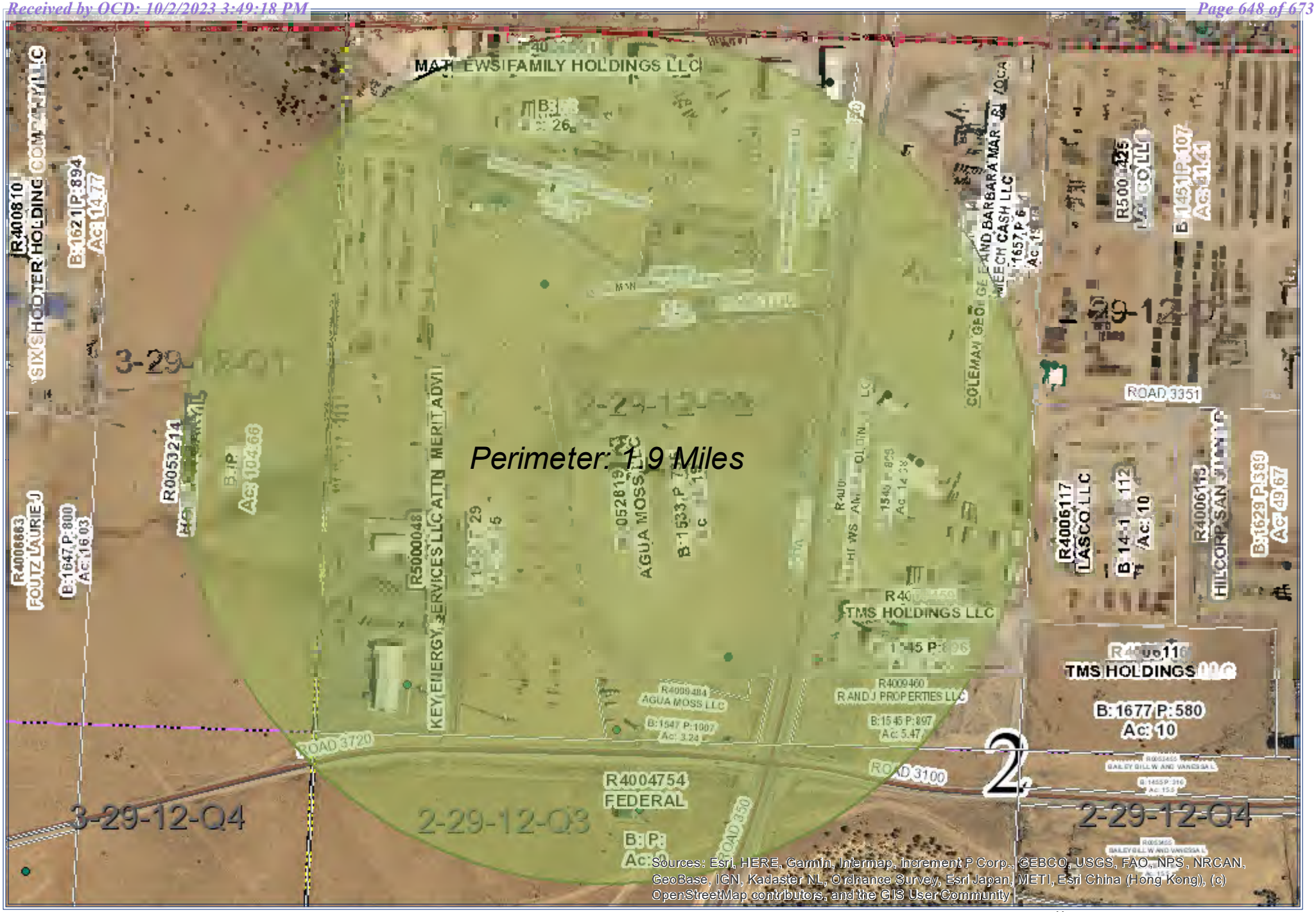
													Surface Casing			*INT Casing*			*Production Casing*					
API	Well Name	Well #	Current Operator	Type	Lease	Status	Sec	TWN	RNG	UL	Spud Date	TD	size	depth	Sacks TOC	size	depth	Sacks TOC	size	depth	Sacks TOC	Perfs	Packer	PLUGGED
30-045-08851	ALLEN A	#001	BP America	Gas	Private	Plugged	1	29N	12W	D	3/12/1961	6785	8.265	264	200 surf				4.5	6785	300 surf	6518-6718		3/27/2018
30-045-26214	ALLEN A	#001E	SIMCOE LLC	Gas	Federal	Active	1	29N	12W	L	3/22/1985	5825	8.625	318	225 surf				5.5	6622	820 surf	6425-6602		
30-045-08661	Dudley Cornell A	#001	SIMCOE LLC	Gas	Federal	Active	1	29N	12W	O	11/15/1960	6730	9.625	263	200 surf				4.5	6707	300 surf	6434-6587		
30-045-24129	Dudley Cornell A	#001E	SIMCOE LLC	Gas	Federal	Active	1	29N	12W	G	4/28/1980	6722	9.625	348	250 surf				4.5	6710	180 surf	6496-6629		
30-045-34348	Allen Com	#100	Burlington	Gas	Federal	Plugged	1	29N	12W	B	10/22/2007	138												1/22/2009
30-045-08782	Cornell	5	Burlington	Gas	Federal	Plugged	1	29N	12W	G	9/30/1955	99999												4/28/1994
30-045-29167	Hike	1	Dugan Production	Gas	Federal	Active	1	29N	12W	G	7/10/1994	3840	8.625	260	175 surf				4.5	3820	595 surf	3710-3718	3710	
30-045-08656	Cornell	2	Energen Resources	Gas	Federal	Plugged	1	29N	12W	M	10/2/1955	1996												9/15/2005
30-045-29539	Cornell	3R	Epic Energy	Gas	Federal	Plugged	1	29N	12W	I	10/7/1955	0	7	131	45-53				3.5	2193	434-741	1991-2041		7/13/2018
30-045-29538	Cornell	5R	HilCorp	Gas	Federal	Active	1	29N	12W	A	4/14/1998	2225	7	131	45-53				3.5	2215	434-741	2029-2059		
30-045-08783	PRE-ONGARD WELL	#001	Pre Ongard	Gas	Private	Plugged	1	29N	12W	F	7/9/2003	2090												12/31/1901
30-045-08641	PRE-ONGARD WELL	#003	Pre Ongard	Gas	Federal	Plugged	1	29N	12W	O	4/11/1998	2203												11/16/1981
30-045-08793	Pre-Ongard		Southern union	Gas	Private	Plugged	1	29N	12W	E	3/16/1948	2125												3/16/1948
30-045-32346	CORNELL	#002R	Southland Royalty	Gas	Federal	Active	1	29N	12W	M	7/22/2004	2152	7	137	90 surf				4.5	2151	310 surf	1702-1926		
30-045-31612	Cornell	2S	Southland Royalty	Gas	Federal	Active	1	29N	12W	O	7/27/1957	0	7	136	56 surf				4.5	2058	225 surf	1725-1921		
30-045-28653	SUNCO DISPOSAL	#001	Agua Moss	Salt Water Disposal	Private	Active	2	29N	12W	E	1/28/1992	4760	8.625	209	150 surf				5.5	4760	1010 surf	4350-4460	4282 10/15/07	4350-4460 TA'd
30-045-33573	CORNELL COM	#500S	Burlington	Gas	Private	Plugged	2	29N	12W	P	3/18/2006	2210	7	132	34 surf	6.25	2210		4.5	2198	279 surf	1754-1939 1743-1924		1/23/2013
30-045-08844	KATTLER	#001	Burlington	Gas	Private	Plugged	2	29N	12W	C	1/26/1945	2069	10	846	surf	5.5	1960		3.5	2050	205 surf	1961-2007		5/26/2012
30-045-08713	McGrath SRC	#001	Burlington	Gas	Private	Plugged	2	29n	12w	j	7/7/1973	2136												1998
30-045-30486	MCGRATH SRC	#001R	Burlington	Gas	Private	Plugged	2	29N	12W	J	3/23/2001	2235												6/25/2010
30-045-32241	BECK	#001R	HilCorp	Gas	Private	Active	2	29N	12W	G	12/1/2004	2225	7	135	34 surf				4.5	2221	262 surf	1774-2077		
30-045-33811	BECK	#001S	HilCorp	Gas	Private	Active	2	29N	12W	D	8/17/2006	2200	7	162	85 surf				4.5	2195	255 surf	1730-1951		
30-045-31580	CORNELL COM	#500	HilCorp	Gas	Federal	Active	2	29N	12W	N	7/14/2003	2136	7	139	44 surf	6.25	2126		4.5	2126	258 surf	1658-1878		
30-045-08714	CORNELL SRC	#007	HilCorp	Gas	Federal	Active	2	29N	12W	L	7/29/1944	2107	16	42	10 surf	5.5	1978		3.5	2106	250 surf	1976-2010		

30-045-08704	MCGRATH B	#001	HilCorp	Gas	Private	Active	2	29N	12W	J	11/19/1961	6720	8.625	318	225 surf				4.5	1865	1065 surf	6489-6596		
30-045-08839	YOUNG	#001	HilCorp	Gas	Private	Active	2	29N	12W	D	8/1/1961	6740	8.625	307	275 surf				4.5	6739	700 surf	6446-6644		
30-045-08797	Pre-Ongard		Southland	Gas	Private	Plugged	2	29n	12w	g	4/14/1948	2125												2/23/1984
30-045-27635	PRE-ONGARD WELL	#500		Gas	Federal	Plugged	2	29N	12W	M														12/31/1901
30-045-08709	MCGRATH	#003	Burlington	Gas	Private	Plugged	3	29N	12W	J	3/4/1945	2040												3/1/2013
30-045-60274	WALKER 2	#002	Burlington	Gas	Private	Plugged	3	29N	12W	D	1/8/1945	1974												7/24/1998
30-045-08823	Walker SRC	1	Burlington	Gas	Private	Plugged	3	29N	12W	G	2/25/1943	2050												10/12/2009
30-045-33580	MCGRATH	#003S	HilCorp	Gas	Private	TA'd	3	29N	12W	B	7/13/2007	2132	7	218	150 surf				4.5	2112	289 surf	1692-1904		TA'd 10/23/2009
30-045-08712	MCGRATH A	#001	HilCorp	Gas	Private	Active	3	29N	12W	I	3/14/1964	6689	8.625	307	250 surf				4.5	6688	500 surf	6432-6524		
30-045-32931	WALKER	#100S	HilCorp	Gas	Private	Active	3	29N	12W	F	8/14/2005	2120	7	144	61 surf				4.5	2117	238 surf	1621-1885		
30-045-08801	WALKER 1	#001	HilCorp	Gas	Private	Active	3	29N	12W	E	4/12/1960	6620	8.625	232	150 surf				4.5	6620	300 surf	6546-6556		
30-045-30244	WALKER 100	#100	HilCorp	Gas	Private	TA'd	3	29N	12W	L	3/30/2001	1948	7	126	140-168				4.5	1940	219-399	1659-1872	1597 CIBP@1609	Tad
30-045-08711	Pre-Ongard		Union Texas	Gas	Private	Plugged	3	29N	12W	K	6/25/1955	1940												11/10/1964
30-045-29117	RIGGS	#001	Enduring Resources	Gas	Private	Active	4	29N	12W	A	6/24/1994	1900												
30-045-29118	RIGGS	#002	Enduring Resources	Gas	Private	Plugged	4	29N	12W	N	6/28/1994	1890												5/8/2017
30-045-32239	RIGGS	#003	Enduring Resources	Gas	Private	Active	4	29N	12W	C	2/21/2005	1906												
30-045-32312	RIGGS	#004	Enduring Resources	Gas	Private	Active	4	29N	12W	P	3/20/2005	2002												
30-045-08718	STANDARD	#001	HilCorp	Gas	Federal	Active	4	29N	12W	J	11/3/1960	6600	8.625	236	175 surf				4.5	6600	250 surf	6356-6510		
30-045-08720	DEVONIAN FEDERAL	#001	Holcomb Oil & Gas	Gas	Federal	Active	4	29N	12W	K	6/23/1959	6538												
30-045-24552	PRE-ONGARD WELL	#001	Pre Ongard	Gas	Federal	Plugged	4	29N	12W	A	5/29/1981	0												12/7/1995
30-045-08804	FEDERAL	#001	Riggs Oil & Gas	Gas	Federal	Plugged	4	29N	12W	F	5/29/1959	1856												2/9/2017
30-045-08586	FLORANCE GAS COM B	#001	SIMCOE LLC	Gas	Federal	Active	9	29N	12W	H	1/20/1964	6470												
30-045-28824	ROPCO FEE FC 9	#002	HilCorp	Gas	Private	Active	9	29N	12W	A	11/25/1992	1975												
30-045-26855	PRE-ONGARD WELL	#001	Pre Ongard	Gas	Private	Plugged	9	29N	12W	B	3/18/1988	0												3/9/1989
30-045-08601	CORNELL A	#001	SIMCOE LLC	Gas	Federal	Active	10	29N	12W	D	12/28/1960	6510												
30-045-24132	CORNELL A	#001E	BP America	Gas	Federal	Plugged	10	29N	12W	N	4/4/1980	6350												1/24/2018

30-045-08605	CORNELL	#007	Burlington	Gas	Federal	Plugged	10	29N	12W	C	4/20/1956	1807											7/18/1996
30-045-23889	BECK A	#001E	HilCorp	Gas	Federal	Active	10	29N	12W	B	1/5/1981	6514	8.625	240	150 surf				4.5	6514	765 surf	6277-6454	
30-045-08517	BECK A	#001	HilCorp	Gas	Private	Active	10	29N	12W	J	6/12/1962	6410											
30-045-30381	CORNELL	#100	HilCorp	Gas	Federal	Active	10	29N	12W	B	1/7/2003	1968	7	147	55 surf				4.5	1959	229 surf	1543-1704 1744-1800	
30-045-08523	PRE-ONGARD WELL	#001	Pre Ongard	Water	Private	Permanently	10	29N	12W	J	8/21/1946	1871											10/31/1977
30-045-23758	Pre-Ongard		Southland	Gas	Federal	Plugged	10	29N	12W	A	12/19/1980	1870											2/10/1984
30-045-34452	BECK 29 12 10	#108	Synergy	Gas	Federal	Plugged	10	29N	12W	N	2/21/2008	1865											4/27/2020
30-045-13092	CORNELL C	#001	SIMCOE LLC	Gas	Federal	Active	11	29N	12W	D	12/6/1961	6604	8.625	250	150 surf				4.5	6604	300 surf	6298-6483	
30-045-08615	CORNELL	#006	Epic Energy	Gas	Federal	Active	11	29N	12W	C	11/7/1955	1839	8.625	106	70 surf	5.5	1811		3.5	2022	181 surf	1811-1839	
30-045-31581	CORNELL	#101	HilCorp	Gas	Federal	Active	11	29N	12W	D	10/7/2003	2008	7	140	35 surf				4.5	2000	270 surf	1726-1764	
30-045-24447	FEDERAL PRI	#001E	HilCorp	Gas	Federal	Active	11	29N	12W	H	10/9/1980	6581											
30-045-29945	PAYNE	#001R	Mcelvain Energy	Gas	Federal	Active	11	29N	12W	H	10/27/1999	2050											
30-045-32667	PRI	#003	Mcelvain Energy	Gas	Federal	Active	11	29N	12W	I	2/27/2005	1960											
30-045-13218	PRE-ONGARD WELL	#010	Pre Ongard	Gas	Federal	Plugged	11	29N	12W	A		0											12/31/1901
30-045-08558	PRE-ONGARD WELL	#001	Pre Ongard	Gas	Federal	Plugged	11	29N	12W	G	1/1/1940	0											4/16/1976
30-045-08515	PRE-ONGARD WELL	#001	Pre Ongard	Gas	Private	Plugged	11	29N	12W	L	11/25/1932	0											12/13/1982
30-045-20067	PRE-ONGARD WELL	#001	Pre Ongard	Gas	Federal	Plugged	11	29N	12W	O	5/5/1967	0											4/18/1986
30-045-08475	CARROLL CORNELL	#012	Producing Royalties	Gas	Federal	Plugged	11	29N	12W	P	11/22/1953	1895											6/13/1979
30-045-22118	PAYNE	#001	Producing Royalties	Gas	Federal	Plugged	11	29N	12W	A	7/31/1976	2060											2/13/2002
30-045-24086	CORNELL D	#001E	SIMCOE LLC	Gas	Federal	Active	12	29N	12W	A	5/22/1980	6635											
30-045-24283	CORNELL E	#001E	SIMCOE LLC	Gas	Federal	Active	12	29N	12W	F	5/12/1980	6609											
30-045-08444	CORNELL E	#001	BP America	Gas	Federal	Plugged	12	29N	12W	M	9/28/1962	6562											6/27/2017
30-045-08528	CORNELL SRC	#004	Burlington	Gas	Federal	Plugged	12	29N	12W	K	5/25/1941	1970											3/29/2017
30-045-22119	PAYNE	#002	Mcelvain Energy	Gas	Federal	Plugged	12	29N	12W	F	7/22/1976	2062											10/30/2010
30-045-22962	PAYNE	#002J	RIM Operating	Gas	Federal	Active	12	29N	12W	E	6/12/1978	2026											
30-045-33015	PRI	#001S	RIM Operating	Gas	Federal	Active	12	29N	12W	A	9/20/2005	2057											

30-045-32665	PRI	#001	RIM Operating	Gas	Federal	Active	12	29N	12W	E	2/17/2005	2090											
30-045-32666	PRI	#002	RIM Operating	Gas	Federal	Active	12	29N	12W	M	2/8/2005	2010											
30-045-09117	PRE-ONGARD WELL	#001	ONGARD WELL OPERATOR	Gas	Private	Plugged	25	30N	12W	M	4/13/1953	0											5/26/1958
30-045-26121	ROWLAND GAS COM	#001E	HilCorp	Gas	Private	Active	25	30N	12W	M	3/19/1985	6560											
30-045-29707	RUBY CORSCOT A	#001	HilCorp	Gas	Private	Active	25	30N	12W	N	9/25/1999	2007											
30-045-31641	RUBY CORSCOT A	#002	HilCorp	Gas	Private	Active	25	30N	12W	E	6/2/2003	2076											
30-045-30456	KATY COM	#002	[14634] MERRION OIL & GAS CORP	Gas	Private	Plugged	26	30N	12W	P	4/27/2001	2028											8/10/2015
30-045-09177	PAUL PALMER	#001	[14634] MERRION OIL & GAS CORP	Gas	Private	Plugged	26	30N	12W	L	9/13/1961	3509											8/14/2015
30-045-29414	PRE-ONGARD WELL	#001	ONGARD WELL OPERATOR	Gas	Private	Plugged	26	30N	12W	G	6/21/1953	0											12/31/1901
30-045-09130	PRE-ONGARD WELL	#003	ONGARD WELL OPERATOR	Gas	Private	Plugged	26	30N	12W	O		0											3/12/1954
30-045-09165	PAUL PALMER D	#001	[5073] CONOCO INC	Gas	Private	Plugged	26	30N	12W	L	10/11/1961	99999											3/17/1995
30-045-30027	PADILLA	#001	HilCorp	Gas	Private	Active	26	30N	12W	F	1/15/2004	1953											
30-045-32243	PADILLA	#002	HilCorp	Gas	Private	Active	26	30N	12W	N	5/13/2004	2153											
30-045-09200	PRE-ONGARD WELL	#001	ONGARD WELL OPERATOR	Gas	Private	Plugged	27	30N	12W	L	3/30/1947	0											3/17/1959
30-045-13120	DUFF GAS COM B	#001	AMERICA PRODUCTION	Gas	Private	Plugged	27	30N	12W	P	2/28/1962	1950											5/30/1996
30-045-30544	DUFF GAS COM	#003	HilCorp	Gas	Private	Active	27	30N	12W	P	4/1/2001	5167											
30-045-09134	DUFF GAS COM C	#001	HilCorp	Gas	Private	Active	27	30N	12W	M	1/30/1964	6365											
30-045-26076	DUFF GAS COM C	#001E	HilCorp	Gas	Private	Active	27	30N	12W	P	9/20/1984	6500											
30-045-29664	DUFF GAS COM C	#002	HilCorp	Gas	Private	Active	27	30N	12W	M	10/16/1998	1856											
30-045-31284	DUFF GAS COM C	#004	HilCorp	Gas	Private	Active	27	30N	12W	P	1/27/2003	1996											
30-045-34235	GILBREATH	#002	Enduring Resources	Gas	Private	Active	28	30N	12W	O	4/30/2008	2170											
30-045-09037	HARGIS	#001	MCGEE OIL & GAS ONSHORE LP	Gas	Private	Plugged	33	30N	12W	G	9/15/1944	1808											2/23/1994
30-045-08999	PRE-ONGARD WELL	#002	ONGARD WELL OPERATOR	Gas	Private	Plugged	33	30N	12W	J	7/10/1946	0											6/4/1982
30-045-08998	JULANDER	#002	PRODUCTION CORP	Gas	Private	Plugged	33	30N	12W	I	4/1/1946	1936											4/12/1999
30-045-29023	REDFERN	#002	Enduring Resources	Gas	Private	Active	33	30N	12W	H	12/5/1993	1950											
30-045-32236	REDFERN	#003	Enduring Resources	Gas	Private	Active	33	30N	12W	I	3/8/2005	1993											

30-045-28912	SHIOTANI	#007	Enduring Resources	Gas	Private	Active	33	30N	12W	K	12/31/1992	1782											
30-045-09001	MADDOX	#001	HilCorp	Gas	Private	Active	33	30N	12W	J	9/21/1961	6400											
30-045-25923	**MCGRATH**	**#004**	**BURLINGTON RESOURCES OIL &**	**Salt Water Disposal**	**Federal**	**Plugged**	**34**	**30N**	**12W**	**B**	**9/4/1984**	**4700**											**7/25/2013**
30-045-09052	**PRE-ONGARD WELL**	**#001**	**ONGARD WELL OPERATOR**	**Gas**	**Federal**	**Plugged**	**34**	**30N**	**12W**	**F**	**9/11/1945**	**0**											**1/22/1964**
30-045-08939	**PRE-ONGARD WELL**	**#001**	**ONGARD WELL OPERATOR**	**Gas**	**Private**	**Plugged**	**34**	**30N**	**12W**	**L**	**1/1/1945**	**0**											**6/4/1982**
30-045-08950	**HUDSON**	**2**	**Burlington**	**Gas**	**Federal**	**Plugged**	**34**	**30N**	**12W**	**P**	**7/17/1946**	**2137**											**9/26/2008**
30-045-08945	**MCGRATH C**	**#001**	**Burlington**	**Gas**	**Federal**	**Plugged**	**34**	**30n**	**12W**	**p**	**2/7/1963**	**6637**											**4/29/2009**
30-045-26141	DUFF GAS COM	#001E	HilCorp	Gas	Federal	TA'd	34	30N	12W	G	11/20/1984	6608	8.625	316	295 surf				4.5	6608	1000 surf	6396-6576 04'RC to FC 1492-1870	**TA'd 3/5/14**
30-045-09071	DUFF GAS COM	#001	HilCorp	Gas	Private	Active	34	30N	12W	D	1/30/1962	6425											
30-045-31756	JULANDER	#100	HilCorp	Gas	Private	Shut In	34	30N	12W	D	7/13/2005	1895											
30-045-33411	JULANDER	#100S	HilCorp	Gas	Federal	Shut In	34	30N	12W	M	3/7/2006	2075											
30-045-31355	CARNAHAN COM	#001Y	HOLCOMB OIL & GAS INC	Gas	Private	Active	35	30N	12W	A	2/15/2003	2150											
30-045-11770	HUDSON J	#003	HilCorp	Gas	Federal	TA'd	35	30N	12W	E	7/22/1966	6750	8.625	306	250 surf				4.5	6750	750 surf	6460-6680 01' RC to FC 1784-1994	
30-045-08946	CARNAHAN COM	#001	Holcomb Oil & Gas	Gas	Private	Active	35	30N	12W	P	12/19/1960	6778	8.625	301	200 surf				4.5	6760	445 surf	6521-6708 94 RC to FC 1824-2037	
30-045-25844	CARNAHAN COM	#002	Merrion Oil & Gas	Gas	Private	Active	35	30N	12W	P	6/15/1984	6780	8.625	230	170 surf				4.5	6777	1425 surf	6529-6714	
30-045-20140	**Pre-Ongard**		**Southland**	**Gas**	**Federal**	**Plugged**	**35**	**30N**	**12W**	**L**	**9/7/1967**	**DH**											**6/9/1982**
30-045-28177	**FC STATE COM**	**#024**	**Burlington**	**Gas**	**State**	**Plugged**	**36**	**30N**	**12W**	**M**	**10/9/1990**	**6608**											**3/26/2013**
30-045-12188	NEW MEXICO COM N	#001	HilCorp	Gas	State	Active	36	30N	12W	E	1/2/1966	6562											
30-045-31074	NEW MEXICO COM N	#100	HilCorp	Gas	State	Shut In	36	30N	12W	A	8/29/2002	2135											
30-045-08986	STATE COM AH	#030	HilCorp	Gas	State	Active	36	30N	12W	I	6/14/1961	6645											
30-045-24037	**STATE COM AH**	**#030E**	**HilCorp**	**Gas**	**State**	**Plugged**	**36**	**30N**	**12W**	**N**	**8/10/1980**	**6620**											**4/28/2016**



The San Juan County Assessor's Office assumes no liability for the accuracy of the information provided and it is not intended to be used as a survey.

The data contained herein was derived from the most current information available at the time of publishing. While the San Juan County Assessor's Office makes every effort to provide accurate and complete information, the data contained on this map is subject to change.

The San Juan County Assessor's Office provides no warranty expressed or implied, as to the accuracy , reliability or

Date: 10/4/2022

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N W E S

San Juan County
Assessor's Office
100 S. Oliver Dr.
Aztec, NM 87410
505-334-6157

Appendix F

Souder, Miller & Associates ♦ 401 West Broadway ♦ Farmington, NM 87401
(505) 325-7535 ♦ (800) 519-0098 ♦ fax (505) 326-0045

August 18, 2022 SMA Project No. 5129666

Ms. Philana Thompson
Agua Moss LLC
P.O. Box 600
Farmington, NM 87499
pthompson@merrion.bz
(505) 324-5300

RE: Sunco Disposal #1 Monitor Well Sampling – 2022

Dear Ms. Thompson:

This report summarizes sample collection, field screening, and laboratory analysis of groundwater at the Agua Moss LLC Sunco Disposal #1 facility on March 1, 2022.

Field Activities
Souder, Miller & Associates (SMA) personnel collected one groundwater sample from monitoring well MW-1 on March 1, 2022. The sample was collected utilizing a disposable bailer after purging approximately six gallons of water from the well.

Sample Collection and Field Screening Procedures
The groundwater sample 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.

Groundwater collected for analysis was placed directly 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 groundwater 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. A dilution due to matrix qualifier is indicated on the laboratory report for total dissolved solids.

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.

Released to Imaging: 10/2/2023 4:00:31 PM

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

Attachments:
Table 1. Summary of Field Screening and Laboratory Analytical Results
Laboratory Analytical Reports (Hall 2203069)

Table 1:
Summary of Field Screening and Laboratory Analytical Results

AGUA MOSS LLC
SUNCO DISPOSAL #1

Sample ID	MW-1			
Collection Date	3/1/2022		Units	WQCC Groundwater Standards*
Analyte	Laboratory Results	Field Results		
pH	7.06 H	7.42	su	6 to 9 su
Temperature	--	13.2	°C	
Reduction Potential	--	-165.1	mV	
Specific Conductance	4,500	1,890	µmhos/cm	
Total Dissolved Solids	3,940 D	3,540	mg/L	1,000.0 mg/L
Bicarbonate (As $CaCO_3$)	533.2	--	mg/L	
Carbonate (As $CaCO_3$)	<2.000	--	mg/L	
Fluoride	<0.50	--	mg/L	1.6 mg/L
Chloride	37	--	mg/L	250.0 mg/L
Bromide	<0.50	--	mg/L	
Phosphorus, Orthophosphate	<2.5	--	mg/L	
Sulfate	2,000	--	mg/L	600.0 mg/L
Nitrogen, Nitrate (as N)	<0.50	--		10.0 mg/L
Nitrogen, Nitrite (as N)	<0.50	--	mg/L	1.0 mg/L
Calcium	660	--	mg/L	
Magnesium	67	--	mg/L	
Potassium	9.3	--	mg/L	
Sodium	460	--	mg/L	
Benzene	<1.0	--	µg/L	5 µg/L
Toluene	<1.0	--	µg/L	1,000 µg/L
Ethylbenzene	<1.0	--	µg/L	700 µg/L
Methyl tert-butyl ether	<1.0	--	µg/L	100 µg/L
1,2,4-Trimethylbenzene	<1.0	--	µg/L	
1,3,5-Trimethylbenzene	<1.0	--	µg/L	
1,2-Dichloroethane	<1.0	--	µg/L	5 µg/L
1,2-Dibromoethane	<1.0	--	µg/L	0.05 µg/L
Napthalene	<2.0	--	µg/L	30 µg/L
1-Methylnaphthalene	<4.0	--	µg/L	
2-Methylnaphthalene	<4.0	--	µg/L	
Acetone	<10	--	µg/L	
Bromobenzene	<1.0	--	µg/L	
Bromodichloromethane	<1.0	--	µg/L	
Bromoform	<1.0	--	µg/L	
Bromomethane	<3.0	--	µg/L	
2-Butanone	<10	--	µg/L	
Carbon disulfide	<10	--	µg/L	
Carbon tetrachloride	<1.0	--	µg/L	5 µg/L
Chlorobenzene	<1.0	--	µg/L	
Chloroethane	<2.0	--	µg/L	
Chloroform	<1.0	--	µg/L	100 µg/L
Chloromethane	<3.0	--	µg/L	
2-Chlorotoluene	<1.0	--	µg/L	
4-Chlorotoluene	<1.0	--	µg/L	
cis-1,2-DCE	<1.0	--	µg/L	70 µg/L
cis-1,3-Dichloropropene	<1.0	--	µg/L	
1,2-Dicbbromo-3-chloropropane	<2.0	--	µg/L	
Dibromochloromethane	<1.0	--	µg/L	
Dibromomethane	<1.0	--	µg/L	

Table 1:
Summary of Field Screening and Laboratory Analytical Results

AGUA MOSS LLC
SUNCO DISPOSAL #1

Sample ID	MW-1			
Collection Date	3/1/2022		Units	WQCC Groundwater Standards*
Analyte	Laboratory Results	Field Results		
1,2-Dichlorobenzene	<1.0	--	µg/L	600 µg/L
1,3-Dichlorobenzene	<1.0	--	µg/L	
1,4-Dichlorobenzene	<1.0	--	µg/L	75 µg/L
Dichlorodifluoromethane	<1.0	--	µg/L	
1,1-Dichloroethane	<1.0	--	µg/L	25 µg/L
1,1-Dichloroethene	<1.0	--	µg/L	
1,2-Dichloropropane	<1.0	--	µg/L	5 µg/L
1,3-Dichloropropane	<1.0	--	µg/L	
2,2-Dichloropropane	<2.0	--	µg/L	
1,1-Dichloropropene	<1.0	--	µg/L	
Hexachlorobutadiene	<1.0	--	µg/L	
2-Hexanone	<10	--	µg/L	
Isopropylbenzene	<1.0	--	µg/L	
4-isopropyltoluene	<1.0	--	µg/L	
4-Methyl-2-pentanone	<10	--	µg/L	
Methylene chloride	<3.0	--	µg/L	5 µg/L
n-Butylbenzene	<3.0	--	µg/L	
n-Propylbenzene	<1.0	--	µg/L	
sec-Buytlbenzene	<1.0	--	µg/L	
Styrene	<1.0	--	µg/L	100 µg/L
tert-Buytlbenzene	<1.0	--	µg/L	
1,1,1,2-Tetrachloroethane	<1.0	--	µg/L	
1,1,2,2-Tetrachloroethane	<2.0	--	µg/L	10 µg/L
Tetrachloroethene	<1.0	--	µg/L	5 µg/L
trans-1,2-DCE	<1.0	--	µg/L	100 µg/L
trans-1,3-Dichloropropene	<1.0	--	µg/L	
1,2,3-Trichlorobenzene	<1.0	--	µg/L	
1,2,4-Trichlorobenzene	<1.0	--	µg/L	70 µg/L
1,1,1-Trichloroethane	<1.0	--	µg/L	200 µg/L
1,1,2-Trichloroethane	<1.0	--	µg/L	5 µg/L
Trichloroethene	<1.0	--	µg/L	5 µg/L
Trichlorofluoromethane	<1.0	--	µg/L	
1,2,3-Trichloropropane	<2.0	--	µg/L	
Vinyl chloride	<1.0	--	µg/L	2 µg/L
Xylenes,total	<1.5	--	µg/L	620 µg/L

Notes: su - standard units
°C - degrees Celcius
°F - degrees Farenheit
mV - millivolts
µmhos/cm - micromohs per centimeter
mg/L - milligrams per liter
µg/L - micrograms per liter
H - Holding times for preparation or analysis exceeded
D - Sample diluted due to matrix
WQCC - Water Quality Control Commission
*Per 20.6.3103 NMAC

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

August 18, 2022

Heather Woods

Souder, Miller and Associates
401 W. Broadway
Farmington, NM 87401
TEL: (505) 325-5667
FAX (505) 327-1496

RE: Auga Moss Sunco MW OrderNo.: 2203069

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/2/2022 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued July 20, 2022.

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. 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. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2203069**
Date Reported: **8/18/2022**

CLIENT: Souder, Miller and Associates
Client Sample ID: MW-1 (03/01/22)
Project: Auga Moss Sunco MW
Collection Date: 3/1/2022 11:30:00 AM
Lab ID: 2203069-001 **Matrix:** AQUEOUS **Received Date:** 3/2/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Fluoride	ND	0.50		mg/L	5	3/2/2022 1:57:42 PM	R86219
Chloride	37	2.5		mg/L	5	3/2/2022 1:57:42 PM	R86219
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	3/2/2022 1:57:42 PM	R86219
Bromide	ND	0.50		mg/L	5	3/2/2022 1:57:42 PM	R86219
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	3/2/2022 1:57:42 PM	R86219
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	3/2/2022 1:57:42 PM	R86219
Sulfate	2000	50	*	mg/L	100	3/11/2022 10:19:14 AM	R86442
SM2510B: SPECIFIC CONDUCTANCE						Analyst:	**LRN**
Conductivity	4500	10		µmhos/c	1	3/3/2022 11:54:31 AM	R86241
SM2320B: ALKALINITY						Analyst:	**LRN**
Bicarbonate (As CaCO3)	533.2	20.00		mg/L Ca	1	3/2/2022 7:13:25 PM	R86216
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	3/2/2022 7:13:25 PM	R86216
Total Alkalinity (as CaCO3)	533.2	20.00		mg/L Ca	1	3/2/2022 7:13:25 PM	R86216
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	3490	200	*D	mg/L	1	3/9/2022 10:40:00 AM	65987
SM4500-H+B / 9040C: PH						Analyst:	**LRN**
pH	7.06		H	pH units	1	3/2/2022 7:13:25 PM	R86216
EPA METHOD 200.7: DISSOLVED METALS						Analyst:	**ELS**
Calcium	660	10		mg/L	10	3/9/2022 12:04:04 PM	B86350
Magnesium	67	1.0		mg/L	1	3/8/2022 1:43:24 PM	D86311
Potassium	9.3	1.0		mg/L	1	3/8/2022 1:43:24 PM	D86311
Sodium	460	10		mg/L	10	3/9/2022 12:04:04 PM	B86350
EPA METHOD 200.7: METALS						Analyst:	**ELS**
Calcium	640	10		mg/L	10	3/9/2022 12:38:05 PM	66033
Magnesium	68	1.0		mg/L	1	3/9/2022 12:36:42 PM	66033
Potassium	11	1.0		mg/L	1	3/9/2022 12:36:42 PM	66033
Sodium	460	10		mg/L	10	3/9/2022 12:38:05 PM	66033
EPA METHOD 8260B: VOLATILES						Analyst:	**CCM**
Benzene	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
Toluene	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
Ethylbenzene	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2203069**
Date Reported: **8/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: MW-1 (03/01/22)
Project: Auga Moss Sunco MW
Collection Date: 3/1/2022 11:30:00 AM
Lab ID: 2203069-001 **Matrix:** AQUEOUS **Received Date:** 3/2/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Naphthalene	ND	2.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
1-Methylnaphthalene	ND	4.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
2-Methylnaphthalene	ND	4.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
Acetone	ND	10		µg/L	1	3/4/2022 6:47:00 PM	R86254
Bromobenzene	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
Bromodichloromethane	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
Bromoform	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
Bromomethane	ND	3.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
2-Butanone	ND	10		µg/L	1	3/4/2022 6:47:00 PM	R86254
Carbon disulfide	ND	10		µg/L	1	3/4/2022 6:47:00 PM	R86254
Carbon Tetrachloride	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
Chlorobenzene	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
Chloroethane	ND	2.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
Chloroform	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
Chloromethane	ND	3.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
2-Chlorotoluene	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
4-Chlorotoluene	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
cis-1,2-DCE	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
Dibromochloromethane	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
Dibromomethane	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
1,1-Dichloroethane	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
1,1-Dichloroethene	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
1,2-Dichloropropane	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
1,3-Dichloropropane	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
2,2-Dichloropropane	ND	2.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
1,1-Dichloropropene	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
Hexachlorobutadiene	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
2-Hexanone	ND	10		µg/L	1	3/4/2022 6:47:00 PM	R86254
Isopropylbenzene	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
4-Isopropyltoluene	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
4-Methyl-2-pentanone	ND	10		µg/L	1	3/4/2022 6:47:00 PM	R86254
Methylene Chloride	ND	3.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
n-Butylbenzene	ND	3.0		µg/L	1	3/4/2022 6:47:00 PM	R86254

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2203069**
Date Reported: **8/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: MW-1 (03/01/22)
Project: Auga Moss Sunco MW
Collection Date: 3/1/2022 11:30:00 AM
Lab ID: 2203069-001 **Matrix:** AQUEOUS **Received Date:** 3/2/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
n-Propylbenzene	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
sec-Butylbenzene	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
Styrene	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
tert-Butylbenzene	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
trans-1,2-DCE	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
Trichlorofluoromethane	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
Vinyl chloride	ND	1.0		µg/L	1	3/4/2022 6:47:00 PM	R86254
Xylenes, Total	ND	1.5		µg/L	1	3/4/2022 6:47:00 PM	R86254
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	3/4/2022 6:47:00 PM	R86254
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	3/4/2022 6:47:00 PM	R86254
Surr: Dibromofluoromethane	103	70-130		%Rec	1	3/4/2022 6:47:00 PM	R86254
Surr: Toluene-d8	94.3	70-130		%Rec	1	3/4/2022 6:47:00 PM	R86254

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203069**

18-Aug-22

Client: Souder, Miller and Associates

Project: Auga Moss Sunco MW

Sample ID: **MB-66033**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Metals**
Client ID: **PBW**	Batch ID: **66033**	RunNo: **86350**
Prep Date: **3/8/2022**	Analysis Date: **3/9/2022**	SeqNo: **3045524** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								

Sample ID: **LLLCS-66033**	SampType: **LCSLL**	TestCode: **EPA Method 200.7: Metals**
Client ID: **BatchQC**	Batch ID: **66033**	RunNo: **86350**
Prep Date: **3/8/2022**	Analysis Date: **3/9/2022**	SeqNo: **3045526** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0	0.5000	0	106	50	150			
Magnesium	ND	1.0	0.5000	0	104	50	150			
Potassium	ND	1.0	0.5000	0	108	50	150			
Sodium	ND	1.0	0.5000	0	103	50	150			

Sample ID: **LCS-66033**	SampType: **LCS**	TestCode: **EPA Method 200.7: Metals**
Client ID: **LCSW**	Batch ID: **66033**	RunNo: **86350**
Prep Date: **3/8/2022**	Analysis Date: **3/9/2022**	SeqNo: **3045528** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	50	1.0	50.00	0	99.9	85	115			
Magnesium	49	1.0	50.00	0	98.1	85	115			
Potassium	47	1.0	50.00	0	95.0	85	115			
Sodium	48	1.0	50.00	0	96.5	85	115			

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Metals**
Client ID: **PBW**	Batch ID: **B86350**	RunNo: **86350**
Prep Date:	Analysis Date: **3/9/2022**	SeqNo: **3045543** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Sodium	ND	1.0								

Sample ID: **LLLCS**	SampType: **LCSLL**	TestCode: **EPA Method 200.7: Metals**
Client ID: **BatchQC**	Batch ID: **B86350**	RunNo: **86350**
Prep Date:	Analysis Date: **3/9/2022**	SeqNo: **3045545** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0	0.5000	0	110	50	150			
Sodium	ND	1.0	0.5000	0	112	50	150			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203069**
18-Aug-22

Client: Souder, Miller and Associates
Project: Auga Moss Sunco MW

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA Method 200.7: Metals**							
Client ID: **LCSW**	Batch ID: **B86350**	RunNo: **86350**							
Prep Date:	Analysis Date: **3/9/2022**	SeqNo: **3045547**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	52	1.0	50.00	0	103	85	115			
Sodium	50	1.0	50.00	0	101	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203069**
18-Aug-22

Client: Souder, Miller and Associates
Project: Auga Moss Sunco MW

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW**	Batch ID: **D86311**	RunNo: **86311**
Prep Date:	Analysis Date: **3/8/2022**	SeqNo: **3044187** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Magnesium	ND	1.0								
Potassium	ND	1.0								

Sample ID: **LLLCS**	SampType: **LCSLL**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC**	Batch ID: **D86311**	RunNo: **86311**
Prep Date:	Analysis Date: **3/8/2022**	SeqNo: **3044188** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Magnesium	ND	1.0	0.5000	0	111	50	150			
Potassium	ND	1.0	0.5000	0	114	50	150			

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **D86311**	RunNo: **86311**
Prep Date:	Analysis Date: **3/8/2022**	SeqNo: **3044189** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Magnesium	51	1.0	50.00	0	102	85	115			
Potassium	48	1.0	50.00	0	96.9	85	115			

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW**	Batch ID: **B86350**	RunNo: **86350**
Prep Date:	Analysis Date: **3/9/2022**	SeqNo: **3045544** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Sodium	ND	1.0								

Sample ID: **LLLCS**	SampType: **LCSLL**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC**	Batch ID: **B86350**	RunNo: **86350**
Prep Date:	Analysis Date: **3/9/2022**	SeqNo: **3045546** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0	0.5000	0	110	50	150			
Sodium	ND	1.0	0.5000	0	112	50	150			

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **B86350**	RunNo: **86350**
Prep Date:	Analysis Date: **3/9/2022**	SeqNo: **3045548** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203069**
18-Aug-22

Client: Souder, Miller and Associates
Project: Auga Moss Sunco MW

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA Method 200.7: Dissolved Metals**							
Client ID: **LCSW**	Batch ID: **B86350**	RunNo: **86350**							
Prep Date:	Analysis Date: **3/9/2022**	SeqNo: **3045548**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	52	1.0	50.00	0	103	85	115			
Sodium	50	1.0	50.00	0	101	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203069**
18-Aug-22

Client: Souder, Miller and Associates
Project: Auga Moss Sunco MW

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R86219**	RunNo: **86219**							
Prep Date:	Analysis Date: **3/2/2022**	SeqNo: **3039048**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R86219**	RunNo: **86219**							
Prep Date:	Analysis Date: **3/2/2022**	SeqNo: **3039049**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.49	0.10	0.5000	0	97.7	90	110			
Chloride	4.7	0.50	5.000	0	93.3	90	110			
Nitrogen, Nitrite (As N)	0.97	0.10	1.000	0	97.1	90	110			
Bromide	2.4	0.10	2.500	0	96.6	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	99.2	90	110			
Phosphorus, Orthophosphate (As P	4.5	0.50	5.000	0	90.4	90	110			

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R86442**	RunNo: **86442**							
Prep Date:	Analysis Date: **3/11/2022**	SeqNo: **3049631**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	ND	0.50								

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R86442**	RunNo: **86442**							
Prep Date:	Analysis Date: **3/11/2022**	SeqNo: **3049632**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	10	0.50	10.00	0	101	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203069**
18-Aug-22

Client: Souder, Miller and Associates
Project: Auga Moss Sunco MW

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **R86254** RunNo: **86254**
Prep Date: Analysis Date: **3/4/2022** SeqNo: **3041011** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	110	70	130			
Toluene	21	1.0	20.00	0	105	70	130			
Chlorobenzene	21	1.0	20.00	0	107	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	102	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	104	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		102	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		97.9	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.6		10.00		95.9	70	130			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R86254** RunNo: **86254**
Prep Date: Analysis Date: **3/4/2022** SeqNo: **3041156** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203069**
18-Aug-22

Client: Souder, Miller and Associates
Project: Auga Moss Sunco MW

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R86254**	RunNo: **86254**
Prep Date:	Analysis Date: **3/4/2022**	SeqNo: **3041156** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203069**
18-Aug-22

Client: Souder, Miller and Associates
Project: Auga Moss Sunco MW

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R86254**	RunNo: **86254**
Prep Date:	Analysis Date: **3/4/2022**	SeqNo: **3041156** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		103	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		97.3	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	9.4		10.00		94.1	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203069**
18-Aug-22

Client: Souder, Miller and Associates
Project: Auga Moss Sunco MW

Sample ID: **lcs-1 100.2uS eC**	SampType: **LCS**	TestCode: **SM2510B: Specific Conductance**
Client ID: **LCSW**	Batch ID: **R86241**	RunNo: **86241**
Prep Date:	Analysis Date: **3/3/2022**	SeqNo: **3039804** Units: **µmhos/cm**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	100	10	100.0	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203069**

18-Aug-22

Client: Souder, Miller and Associates

Project: Auga Moss Sunco MW

Sample ID: **mb-1 alk**	SampType: **mblk**	TestCode: **SM2320B: Alkalinity**							
Client ID: **PBW**	Batch ID: **R86216**	RunNo: **86216**							
Prep Date:	Analysis Date: **3/2/2022**	SeqNo: **3038984**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: **lcs-1 alk**	SampType: **lcs**	TestCode: **SM2320B: Alkalinity**							
Client ID: **LCSW**	Batch ID: **R86216**	RunNo: **86216**							
Prep Date:	Analysis Date: **3/2/2022**	SeqNo: **3038985**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	74.36	20.00	80.00	0	93.0	90	110			

Sample ID: **mb-2 alk**	SampType: **mblk**	TestCode: **SM2320B: Alkalinity**							
Client ID: **PBW**	Batch ID: **R86216**	RunNo: **86216**							
Prep Date:	Analysis Date: **3/2/2022**	SeqNo: **3039006**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: **lcs-2 alk**	SampType: **lcs**	TestCode: **SM2320B: Alkalinity**							
Client ID: **LCSW**	Batch ID: **R86216**	RunNo: **86216**							
Prep Date:	Analysis Date: **3/2/2022**	SeqNo: **3039007**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	74.24	20.00	80.00	0	92.8	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203069**
18-Aug-22

Client: Souder, Miller and Associates
Project: Auga Moss Sunco MW

Sample ID: **MB-65987**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**							
Client ID: **PBW**	Batch ID: **65987**	RunNo: **86341**							
Prep Date: **3/7/2022**	Analysis Date: **3/9/2022**	SeqNo: **3044836**	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-65987**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**							
Client ID: **LCSW**	Batch ID: **65987**	RunNo: **86341**							
Prep Date: **3/7/2022**	Analysis Date: **3/9/2022**	SeqNo: **3044837**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1030	20.0	1000	0	103	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Souder, Miller and Associates

Work Order Number: 2203069

RcptNo: 1

Received By: Tracy Casarrubias 3/2/2022 7:30:00 AM

Completed By: Cheyenne Cason 3/2/2022 8:26:32 AM

Reviewed By: KPA 3/2/22

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☑ No ☐ NA ☐
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐ # of preserved bottles checked for pH: 3 (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐ Adjusted? no
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐ Checked by: CMC 3/2/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.9	Good	Yes			
2	2.3	Good	Yes			

Released to Imaging: 10/2/2023 4:00:31 PM

Received by OCD: 10/2/2023 3:49:18 PM

Chain-of-Custody Record

Client: Souder, Miller & Associates

Mailing Address: 401 W. Broadway
Farmington, NM 87401

Phone #: (505) 716-2787

email or Fax#: Heather.Woods@soudermiller.com

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name:
Agua Moss Sunco MW

Project #:

Project Manager:
Heather Woods

Sampler: Heather Woods
On Ice: ☒ Yes ☐ No
# of Coolers: 2
Cooler Temp(Including CF): 1.1)1.9 - Ø = 1.9 (°C)
2.)2.3 - Ø = 2.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2203069	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	See Comments
3/1/22	1130	Aq	MW-1 (03/01/22)	(3)40mL VOA	HCl_2	Cool											X
				(1)500mL Plastic	Non												
				(1)125mL Plastic	HNO_3 Filtered												
				(1)500mL Plastic	H_2SO_4												
				(1)250mL Plastic	HNO_3												

NFS HW

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
3/1/22	1656	Heather M. Woods	[illegible]	Courier	3/1/22	1656
3/1/22	1754	[illegible]	[illegible]	Courier	3/2/22	7:30

Remarks: Direct bill to Agua Moss - Rates per Andy
pH, VOCs, major cations and anions,
See attached pages (3) for constituents and reporting limits

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

WELL API NO.
30-045-28653

5. Indicate Type of Lease
STATE ☐ FEE ☐

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name
Sunco Disposal

1. Type of Well: Oil Well ☐ Gas Well ☒ Other UIC Disposal

8. Well Number #1

2. Name of Operator
Agua Moss, LLC

9. OGRID Number
247130

3. Address of Operator
PO Box 600 Farmington, NM 87499

10. Pool name or Wildcat
SWD-MV

4. Well Location
Unit Letter___E____:_1595_____feet from the ___North_____ line and __1005_____feet from the __West_____line
Section 2 Township 29N Range 12W NMPM San Juan County

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*
5859'

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER:	Annual Report 2022 ☒	OTHER:	☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Agua Moss, LLC is submitting the 2022 Annual reports.

Spud Date: Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE___Philana Thompson_____ TITLE__HSE & Regulatory Compliance___DATE____3/10/2023___

Type or print name __Philana Thompson___ E-mail address: __pthompson@merrion.bz_____ PHONE: __505-486-1171_____

For State Use Only

APPROVED BY:_____TITLE_____DATE_____
Conditions of Approval (if any):

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

COMMENTS

Action 271514

COMMENTS

Operator: AGUA MOSS, LLC P.O. Box 600 Farmington, NM 87499	OGRID: 247130
	Action Number: 271514
	Action Type: [UF-DP] Discharge Permit (DISCHARGE PERMIT)

COMMENTS

Created By	Comment	Comment Date
cchavez	Annual Report 2022: Permittee having problems selecting "UF-DP Discharge Permit Main" from desktop for WQCC Permit Report Deliverables.	10/2/2023

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CONDITIONS

Action 271514

CONDITIONS

Operator: AGUA MOSS, LLC P.O. Box 600 Farmington, NM 87499	OGRID: 247130
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	Action Type: [UF-DP] Discharge Permit (DISCHARGE PERMIT)

CONDITIONS

Created By	Condition	Condition Date
cchavez	None	10/2/2023