UIC – I - 5

ANNUAL REPORT (1)

Summary of Operations

2017

The annual MIT was performed 6/26/2017 and Bradenhead test was performed 6/26/2017. The Fall off Test was performed 6/2017, next Fall off test to be performed June 2018. No major events occurred.

Annual Class I Well Report for 2017 May 28th, 2018 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 610 Reilly Ave Farmington, NM 87401 505-486-1171 cell

pthompson@merrion.bz

Appendices

<u>Appendix A</u> 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

Appendix A

	ive	6	(5)	16.13	410	751	8 25	8 25	828	880	513	513	7.24	455	082	082	617	117	338	148910 18 Life Of well in jected
	Total Cumulative	Volume	(barrels)	1443363	14445410	14458751	14470825	14470825	14510328	14524880	1454151	1454151	14559724	1458145	1460308	14603083	1462761	14647115	14662338	148910
		Volume	(barrels)	Previous year	11 752	13 341	12 074	Previous Quarter	39503	14552	16 633	Previous Quarter	18 21 1	21731	21 627	Previous Quarter	24535	19500	15 22 1	228680
	Minimum	Volume	(pdq)	Prev	223	43	144	Previou	1231	191	200	Previou	556	78	357	Previou	193	301	331	Total for year
	Maximum Minimum	Volume	(pdq)		13 19	12.40	15.76		3186	12 73	31.04		12.96	13 58	20.92		19.21	16 83	17 08	Tot
		Average	Volume (bpd)		691.2941176	702.1578947	574.952381		1975.15	661.4545455	924.0555556		1011.722222	944.826087	1029.857143		1066.73913	928.5714286	845.6111111	
	Minimum Annular	Pressure	(p sig)		0	0	0		0	0	0		0	0	0		0	0	0	
2017 Quarterly Injection Report	Maximum Annular	Pressure	(psig)		0	0	0		0	0	0		0	0	0		0	0	0	
	Average	Annular	Flow (gpm) Pressure (psig)		0	0	0		0	0	0		0	0	0		0	0	0	
		Minimum	f (mqg) wol-		6.5041667	1.2541667	4.2		35.904167	5.5708333	5.8333333		16.216667	2.275	10.4125		5.6291667	8.7791667	9.6541667	
		M	(mdg)		38.470833 33 6.5041667	36.16666667	45.96666667		92.925	37.12916667	90.5333333 5.8333333		37.8	39.60833333	61.01666667		56.02916667 5.6291667	49.0875	49.81666667	
		Average Flow	(m d8)		20.1627451	20.47960526	16.7694444		57.60854167	19.29242424	26.95162037		29.50856481	27.55742754	30.0375		31.11322464	27.08333333	24.66365741	
	Minimum	Pressure	(bsig)		1500	1500	1600		1850	200	1700		1600	1800	1650		2000	2150	2050	
15-28653	Maximum	Pressure	(b sig)		2250	2250	2250		2300	2200	2290		2300	2200	2300		2250	2300	2400	
Agua Moss, LLC Agua Moss, LLC Sunco Disposal #1 30-045-28653	Average	Pressure	(b sig)		Jan-2017 1756.818	18 90	1817.391		2182.5	1975	2069.545		20.10	Aug-17 2108.696	2113.636		2150	Vov-2017 2239.286	2262.5	
4gua Moss, LLC Sunco Disposal					Jan-2017	Feb-2017	Mar-2017		Apr -2017	May-2017	Jun-2017		Jul-17	Aug-17	Sep -17		Oct -2017	Nov-2017	Dec-2017	-



April 14, 2017

Ms. Shacie Murray Agua Moss LLC P.O. Box 600 Farmington, New Mexico 87499

Re: Sunco Disposal #1 Injection Water Quarterly Monitoring 1st Quarter 2017

Dear Ms. Murray:

This report summarizes the sample collection, field screening, and laboratory analysis of the injection water at the Agua Moss LLC Sunco Disposal #1 well for the 1st Quarter 2017. Injection water of the Class I Sunco Disposal #1 well is assessed on a quarterly basis in accordance with 20.6.5207B NMAC.

Field Activities

Rule Engineering, LLC (Rule) personnel collected one injection water sample from the process line inside the pump building at the location on March 14, 2016. Injection water was discharged from the valve of the process line into a clean, 5gallon bucket for field screening and transfer to laboratory sample containers.

Sample Collection and Field Screening Procedures The injection water sample (S-3) was field screened for time sensitive parameters including pH, temperature, reduction potential (Eh), and specific conductance. 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.

Table 1. Field Screening and Laboratory Analytical Summary

Constituent	Labora	atory Value	Field Measurement			
pН	6.73		6.75			
Temperature			15.4	°C		
Reduction Potential	-226	mV	-298.3	mV		
Specific Conductance	42,000	µmhos/cm	26,000	µmhos/cm		
Specific Gravity	1.016					

1055 Kipling Street, Lakewood, CO 80215 / 501 Airport Drive #205, Farmington, NM 87401 (303) 431-8500 : Fax: (303) 431-3750 : www.ruleengineering.com : (505) 325-1055

Appendix B

Ms. Shacie Murray Sunco Disposal #1: Injection Water Monitoring – $1^{\rm st}\,Qtr\,2017$ April 14, 2017 Page 2 of 3

Constituent	Labora	atory Value	Field Measurement
Total Dissolved Solids	26,900*	mg/L	
Bicarbonate (As CaCO ₃)	663.3	mg/L CaCO₃	
Carbonate (As CaCO3)	<2.000	mg/L CaCO₃	
Fluoride	34*	mg/L	
Chloride	11,000*	mg/L	
Bromide	47	mg/L	
Phosphorous,	16	mg/L	
Orthophosphate			
Sulfate	1,600*	mg/L	
Nitrate + Nitrite (as N)	<10	mg/L	
Calcium	560	mg/L	
Magnesium	77	mg/L	
Potassium	800	mg/L	
Sodium	7,500	mg/L	
Reactive Cyanide	0.0302	mg/L	
Reactive Sulfide	<0.0500	mg/L	
Corrosivity by pH	6.60		
Flashpoint	Did not f	lash at 170°F	

*Exceeded maximum analytical level

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 removed from the stable environment of the process line. 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 due to an initial dilution made during sample preparation based on the visual observations of laboratory personnel indicating the need for the dilution. Results for fluoride, chloride, sulfate and total dissolved solids exceed the maximum analytical level reportable by the laboratory which should be taken into consideration in evaluation of water quality characteristics.



These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> 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.

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Ms. Shacie Murray Sunco Disposal #1: Injection Water Monitoring – 1st Qtr 2017 April 14, 2017 Page 3 of 3

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 Rule's report and Service 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.

Rule Engineering appreciates the opportunity to provide services to Agua Moss LLC. If you have any questions, please contact me at (505) 325-1055.

Sincerely, Rule Engineering, LLC

Heather M. Woods, P.G. Area Manager/Geologist

Attachments: Laboratory Analytical Report (Hall: 1703798)

Hall F.	wironmental Analy	sis Labore	town In				Lab Order 1703798	
пап ел	Ivironmental Analy	SIS Labora	nory, m	ic.			Date Reported: 4/14/20	17
CLIENT:	Rule Engineering LLC			(lient Sample I	D: S-3	3 (3/14/17)	
Project:	Sunco Disposal Well 1				Collection Da	te: 3/1	4/2017 10:15:00 AM	
Lab ID:	1703798-001	Matrix:	AQUEOU	S	Received Da	te: 3/1	5/2017 7:20:00 AM	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	Batch
SPECIFIC	GRAVITY						Analys	t: LGT
Specific	Gravity	1.016	0			1	3/15/2017 4:30:00 PM	R41392
EPA MET	HOD 300.0: ANIONS						Analys	t: MRA
Fluoride		34	2.0	*	mg/L	20	3/28/2017 5:28:36 PM	R41713
Chloride		11000	500	*	mg/L	1E	3/21/2017 9:35:52 PM	R41545
Bromide		47	2.0		mg/L	20	3/16/2017 5:00:02 AM	A41411
Phospho	rus, Orthophosphate (As P	16	2.5		mg/L	5	3/16/2017 4:47:38 AM	A41411
Sulfate		1600	500	*	mg/L	1E	3/21/2017 9:35:52 PM	R41545
Nitrate+N	litrite as N	ND	10		mg/L	50	3/21/2017 8:58:37 PM	R41545
SM2510B	SPECIFIC CONDUCTANCE	E					Analys	t: JRR
Conducti	vity	42000	10		µmhos/cm	10	3/21/2017 11:56:22 AN	1 R41539
SM2320E	ALKALINITY						Analys	t: JRR
Bicarbon	ate (As CaCO3)	663.3	20.00		mg/L CaCO3	1	3/16/2017 3:25:09 PM	R41461
Carbonal	le (As CaCO3)	ND	2.000		mg/L CaCO3	1	3/16/2017 3:25:09 PM	R41461
Total Alk	alinity (as CaCO3)	663.3	20.00		mg/L CaCO3	1	3/16/2017 3:25:09 PM	R41461
SM2540C	MOD: TOTAL DISSOLVED	SOLIDS					Analys	t: KS
Total Dis	solved Solids	26900	2000	*D	mg/L	1	3/19/2017 5:45:00 PM	30767
SM4500-I	H+B: PH						Analys	t: JRR
pH		6.73		н	pH units	1	3/16/2017 3:25:09 PM	R41461
EPA MET	HOD 6010B: DISSOLVED M	ETALS					Analys	t: MED
Calcium		560	20		mg/L	20	3/27/2017 11:36:25 AM	A41669
Magnesi	um	77	1.0		mg/L	1	3/27/2017 11:07:42 AM	A41669
Potassiu	m	800	20		mg/L	20	3/27/2017 11:36:25 AN	A41669
Sodium		7500	200		mg/L	200	3/27/2017 11:37:55 AN	A41669

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

Value exceeds Maximum Contaminant Level.
 Sample Diluted Due to Matrix
 Helding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 The Advancement of the

Qualifiers:

- R RPD outside accepted recovery limits 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
 Page 1 of 6

 P
 Sample pH Not In Range
 Page 1 of 6
- RL Reporting Detection Limit W Sample container temperature is out of limit as specified

Analytical Report

1703798-001C S-3 (3/14/17) SAMPLE RESULTS - 01 ONE LAB. MATIONWIDE.	
Wet Chemistry by Method 2580	
Result Qualifier Dilution Analysis Batch Analyte mV dstr./ time "T 069 -226 T_0 1 0.92/2/2017 1/1.2 MG/62.3179 "T c	
Wet Chemistry by Method 9012 B	3
Analyte mg/ mg/ dis// time Reactive Canada 0 0002 0 00500 1 0304/2017 09-53 <u>W05453077</u>	
Wet Chemistry by Method 9034-9030B Sr Result Qualiter RD. Dilution Analysis Batch	2
Analyte mg1 duir/min CC Rescrive Same AO 0.05500 1 0920/071/2317 Worder-2016 Mod Characteristics Methods GL GL GL GL	R N R
Wet Chemistry by Method 9040C G Result Qualifier Olution Analysis Betch Analyte Sis date / Fine G	84 94 97 97 97 97 97 97 97 97 97 97 97 97 97
Averaging 30 Galler Faller 1 2 2 1 2 2 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5
9040C-L896772-01W0963412*-6-6-01 at 20.3c	
Wet Chemistry by Method D93/I0IOA Result Distion Analysis Batch Analyse org F date /rine date /rine date /rine	
Flavipoint DNF at 170 1 03/20/2017 15:25 <u>14/2012579</u>	P80 (mms P80 (mms P86 (mms)))))))))))))))))))))))))))))))))))
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	Dilicate (DUP) 1 9322877 127 1 94404 Du PRO 1 000 1 000 1 200 1 20
	V/ 5 V/ 11 V/ 11 V/ 11 7 95 where 3500 111 1 V/ 11 1 V/ 11 1 0riginal Somple (DS) - Duplicate (DUP) 112 111 1 V/ 11 1 10 0riginal Somple (DS) - Duplicate (DUP) 25 2 1 000 205 202 1 000 2 2 2 2 1 10 0riginal Somple (LCS) - Laboratory Control Sample Duplicate (LCS) 0 2
	5 50 mmble (C
	4411404 2010 2010 2010 2010 2010 2010 2010 2010
	WECHANCY 5 Married 2880 Well Chemistry by Married 2880 UBSE/72-01 Original Sample (CS) - Duplicate (DUP) 000 UBSE77-01 032307173 - CCM 94 Marrie 07 844 Andre et al. 201 1 0.000 001 UBSE77-01 0253mple (LCS) - Laboratory Com Laboratory Control Sample (LCS) - Laboratory Com Coll Molessen al 2020 112 Coll Molessen al 2020 112 Marrie et al. 2020 112 Marrie et
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DATE/TIME 04/14/17 13:09

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DATE/TIME 04/4/7/13:09

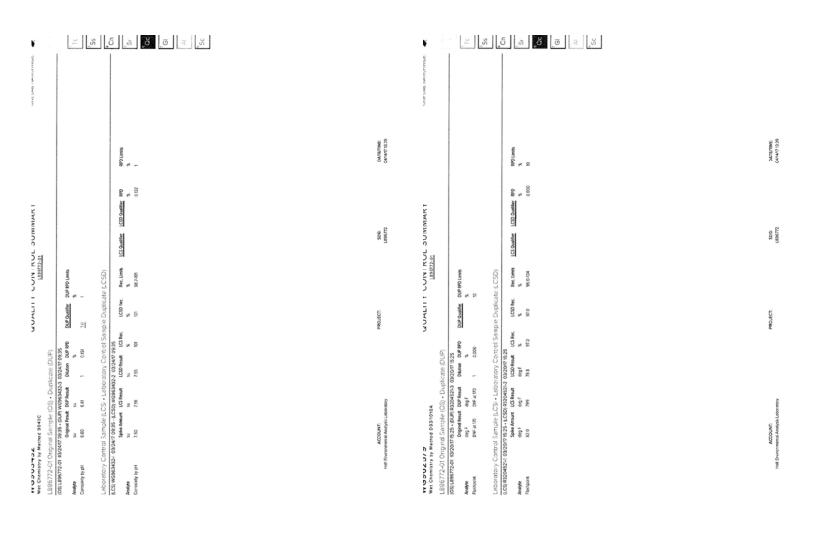
500. L896772

PROJECT:

ACCOUNT: Hell Ewironmental Analysis Laboratory

ACCOUNT: Hall Environmental Analysis Laboratory

PROJECT:



ONE LAB. NATIONWIDE.

AI Sc

GLOSSARY OF TERMS

Т8	Sample(s) received past/too close to holding time expiration.
Qualifier	Description
Rec.	Recovery.
	from a quality control sample. The Original Sample may not be included within the reported SDG.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD)
RPD	Relative Percent Difference
U	Not detected at the Reporting Limit (or MDL where applicable).
ND	Not detected at the Reporting Limit (or MOL where applicable).
RDL	Reported Detection Limit.
SDG MDL	Sample Delivery Group. Method Detection Limit.

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

Client:	Rule Engineering L	LC						
Project:	Sunco Disposal We	:11 1						
-								
Sample ID MB	SampT	ype: MBLK	Tes	tCode: EPA Method	1 300.0: Anions	5		
Client ID: PBW	Batch	h ID: A41411	F	RunNo: 41411				
Prep Date:	Analysis D	Date: 3/15/2017	S	SeqNo: 1298417	Units: mg/L			
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	ND	0.10						
Phosphorus, Orthophosp	ohate (As P ND	0.50						
Sample ID LCS	SampT	Vpe: LCS	Tes	tCode: EPA Method	300 0: Anions			
Client ID: LCSW		h ID: A41411		RunNo: 41411	000.0.7411011	·		
Prep Date:		Date: 3/15/2017		SeqNo: 1298418	Units: mg/L			
					-			
Analyte	Result		SPK Ref Val	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	2.6 bhate (As P 5.1	0.10 2.500 0.50 5.000	0	103 90 102 90	110 110			
Phosphorus, Orthophosp	onate (As P 5.1	0.50 5.000	U	102 90	110			
Sample ID MB	SampT	ype: mblk	Tes	tCode: EPA Method	1 300.0: Anions	5		
Client ID: PBW	Batch	h ID: R41545	F	RunNo: 41545				
Prep Date:	Analysis D	Date: 3/21/2017	5	SeqNo: 1303801	Units: mg/L			
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50						
Sulfate	ND	0.50						
Nitrate+Nitrite as N	ND	0.20						
Sample ID LCS	SampT	ype: Ics	Tes	tCode: EPA Method	1 300.0: Anions	5		
Client ID: LCSW	Batch	h ID: R41545	F	RunNo: 41545				
Prep Date:	Analysis D	Date: 3/21/2017	ŝ	SeqNo: 1303802	Units: mg/L			
Analyte	Result		SPK Ref Val	%REC LowLimit	HighLimit	%RPD	RPDI imit	Qual
Chloride	50	0.50 5.000	011(1(01)(a)	99.4 90	110	701 CI D	Từ Dùmi	Quai
Sulfate	10	0.50 10.00	0	101 90	110			
Nitrate+Nitrite as N	3.6	0.20 3.500	0	103 90	110			
Sample ID MB	SamnT	Type: mblk	Tes	Code: EPA Method	300.0: Anions			
Client ID: PBW		h ID: R41713		RunNo: 41713		-		
Prep Date:		Date: 3/28/2017		SeaNo: 1309254	Units: mg/L			
Analyte	Result		SPK Ref Val		-	%RPD	RPDI imit	Qual
Fluoride	Result	0.10 PQL SPK value	ork ker Val	%REC LowLimit	HighLimit	%RPD	RPDLIMI	Quai
1100100	ND	0.10						

- 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

 R RPD outside acceptor recovery limits

 S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank Analyte detected in the associated Method Blank Value above quantitation range Analyte detected below quantitation limits Sample pH Not In Range Reporting Detection Limit Sample container temperature is out of limit as specified E J

RL

W

Page 2 of 6

WO#:

1703798 14-Apr-17

SDG: L896772

PROJECT:

DATE/TIME: 04/14/17 13:09

Hall Environmental Analysis Laboratory, Inc.

Client: Project:		Rule Engineering LL Sunco Disposal Wel									
Sample ID LC	s	SampTy	pe: Ics	5	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID: LC	sw	Batch	ID: R4	1713	F	RunNo: 4	1713				
Prep Date:		Analysis Da	te: 3/	28/2017	S	SeqNo: 1	309255	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride		0.51	0.10	0.5000	0	101	90	110			

WO#:

1703798

14-Apr-17

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

14-Apr-17

Client: Project:		Rule Engineering LL Sunco Disposal Well											
Sample ID N	1B-A	SampTy	SampType: MBLK			TestCode: EPA Method 6010B: Dissolved Metals							
Client ID: P	BW	Batch	ID: A4	1669	F	RunNo: 4	1669						
Prep Date:		Analysis Da	ite: 3	27/2017	s	eqNo: 1	307438	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 L	.CS-A	SampTy	pe: LC	s	TestCode: EPA Method 6010B: Dissolved Metals								
Client ID: L	.csw	Batch	ID: A4	1669	F	RunNo: 4	1669						
Prep Date:		Analysis Da	ite: 3	27/2017	S	SeqNo: 1	307439	Units: mg/L					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Calcium		53	1.0	50.00	0	106	80	120					
Magnesium		52	1.0	50.00	0	105	80	120					
Magnesium													
Potassium		51	1.0	50.00	0	102	80	120					

Qualifiers:

Client:

Project:

Sample ID mb-1

Client ID: PBW

Analyte Total Alkalinity (as CaCO3) Sample ID Ics-1

Client ID: LCSW

Analyte Total Alkalinity (as CaCO3) Sample ID mb-2

Client ID: PBW

Analyte Total Alkalinity (as CaCO3)

Sample ID Ics-2

Client ID: LCSW

Analyte Total Alkalinity (as CaCO3)

Prep Date:

Prep Date:

Prep Date:

Prep Date:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

SampType: mblk

Batch ID: R41461

Analysis Date: 3/16/2017

Batch ID: R41461

Analysis Date: 3/16/2017

SampType: mblk

Batch ID: R41461

Analysis Date: 3/16/2017

SampType: Ics

Batch ID: R41461

Analysis Date: 3/16/2017

4 20.00 80.0

Rule Engineering LLC

Sunco Disposal Well 1

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

Value above quantitation range

TestCode: SM2320B: Alkalinity

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

 ND
 20.00

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

 79.04
 20.00
 80.00
 0
 98.8
 90
 110

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

 ND
 20.00

TestCode: SM2320B: Alkalinity

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

 79.76
 20.00
 80.00
 0
 99.7
 90
 110

SeqNo: 1299924 Units: mg/L CaCO3

SeqNo: 1299925 Units: mg/L CaCO3

SeqNo: 1299948 Units: mg/L CaCO3

SeqNo: 1299949 Units: mg/L CaCO3

RunNo: 41461

RunNo: 41461

RunNo: 41461

RunNo: 41461

· 30. -TestCode: SM2320B: Alkalinity

SampType: Ics TestCode: SM2320B: Alkalinity

B Analyte detected in the associated Method Blank

RL Reporting Detection Limit W Sample container temperat ure is out of limit as specified

 Qualifiers:

 *
 Value exceeds Maximum Contaminant Level.

 D
 Sample Diluted Due to Matrix

 H
 Holding times for preparation or analysis exceeded

 ND
 Next Detected at the Reporting Limit

- R RPD outside accepted recovery limits S % Recovery outside of range due to dilution or matrix
- J Analyte detected below quantitation limits P Sample pH Not In Range RL Reporting Detection Limit W Sample container temperat
 - ature is out of limit as specified

Page 4 of 6

WO#:

Page 6 of 6

1703798

14-Apr-17

B Analyte detected in the associated Method Blank

Value above quantitation range

QC SUMMARY REPORT

Hall Environmental	Analysis	Laboratory, I	nc.

	Engineering LLC Disposal Well 1	
Sample ID MB-30767 Client ID: PBW	SampType: MBLK Batch ID: 30767	TestCode: SM2540C MOD: Total Dissolved Solids RunNo: 41484
Prep Date: 3/17/2017	Analysis Date: 3/19/2017	SeqNo: 1300536 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-30767	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids
Client ID: LCSW	Batch ID: 30767	RunNo: 41484
Prep Date: 3/17/2017	Analysis Date: 3/19/2017	SeqNo: 1300537 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.

- Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Marrix
 Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RPD outside accepted recovery limits
 % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated wethod is Value above quantitation range Analyte detected below quantitation limits Sample pH Not In Range Reporting Detection Limit RL
 - W Sample container temperature is out of limit as specified

B Analyte detected in the associated Method Blank

Value exceeds Maximum Contaminant Level.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 Helding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S % Recovery outside of range due to dilution or matrix
 - RL

E

Analyte detected below quantitation range Analyte detected below quantitation limits Sample pH Not In Range Reporting Detection Limit

B Analyte detected in the associated Method Blank

Sample container temperature is out of limit as specified

Page 5 of 6

Page 3 of 6

WO#:

1703798

14-Apr-17

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental A Albus TEL: 505-345-3975 I Website: www.hall	4901 Hawkin puerque, NM 8 FAX: 505-345-	107 Sam	ple Log-In Check List
Client Name: RULE ENGINEERING LL	Work Order Number:	1703798		ReptNo: 1
Received by/date:	05/15/12			
Logged By: Lindsay Mangin	3/15/2017 7:20:00 AM		Hytte	
Completed By: Lindsay Mangin Reviewed By: QJ.3	3/15/2017 12:50:54 PM 03/16/17		July Mago	
Chain of Custody				
1. Custody seals intact on sample bottles?		Yes 🗌	No 🗆	Not Present 🗹
2. Is Chain of Custody complete?		Yes 🗹	No 🗆	Not Present
3. How was the sample delivered?		Courier		
Log In				
4. Was an attempt made to cool the sample	8?	Yes 🗹	No 🗌	NA 🗆
5. Were all samples received at a temperatu	re of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆
6. Sample(s) in proper container(s)?		Yes 🗹	No 🗆	
7. Sufficient sample volume for indicated tes	l(s)?	Yes 🗹	No 🗆	
8, Are samples (except VOA and ONG) prop	erly preserved?	Yes -	No Er S	re
9. Was preservative added to bottles?		Yes 🕑	No 🖌	ste na 🗆
10.VOA vials have zero headspace?		Yes 🗌	No 🗆	No VOA Vials 🗹
11. Were any sample containers received bro	ken?	Yes 🗆	No 🗹	# of preserved 2,2
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗆	for pH:
 Are matrices correctly identified on Chain 	of Custody?	Yes 🗹	NO 🗆	Adjusted? U.S.
4. Is it clear what analyses were requested?		Yes 🗹	No 🗌	-1
 Were all holding times able to be met? (If no, notify customer for authorization.) 		Yes 🗹	No 🗆	Checked by: <u>JFR</u>
special Handling (if applicable)				

16 Was client octified of all discrepancies with this order?

10, may orone notified of an o	acrepancies meneral ena croent			~ _	1475	
Person Notified:	Day				-	
By Whom:	Via	eMa	ail 🗌 Phone [_ Fa	x 🗌 In Person	
Reception:						

Client Instructions: 17. Addisonal remarks: For metrils analysis: noded 2 m t HNO3 to ODIB for acceptuble pH. Held 18. Souler Internation Cooler No Temp C Condition Seal Intact Seal No Seal Date Signed By 1. 0. Good Yes. 1. 0. Good Yes. 1. 0. Souler State State

v-- □

No 🗌

NA 🔽

Page 1 of 1



July 24, 2017

Ms. Shacie Murray Aqua Moss LLC P.O. Box 600 Farmington, New Mexico 87499

Sunco Disposal #1 Re: Injection Water Quarterly Monitoring 2nd Quarter 2017

Dear Ms. Murray:

This report summarizes the sample collection, field screening, and laboratory analysis of the injection water at the Agua Moss LLC Sunco Disposal #1 well for the 2nd Quarter 2017. Injection water of the Class I Sunco Disposal #1 well is assessed on a quarterly basis in accordance with 20.6.5207B NMAC.

Field Activities

Rule Engineering, LLC (Rule) personnel collected one injection water sample from the process line inside the pump building at the location on June 12, 2017. Injection water was discharged from the valve of the process line into a clean, 5-gallon bucket for field screening and transfer to laboratory sample containers.

Sample Collection and Field Screening Procedures The injection water sample (S-4) was field screened for time sensitive parameters including pH, temperature, reduction potential (Eh), and specific conductance. 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.

Table 1. Field Screening and Laboratory Analytical Summary

Constituent	Laboratory Value	Field Measurement
pН	7.43	7.02
Temperature		18.2 °C
Reduction Potential		-252.2 mV
Specific Conductance	42,000 µmhos/cm	39,200 µmhos/cm
Specific Gravity	1.009	

 1055 Kipling Street, Lakewood, CO 80215
 /
 501 Airport Drive #205, Farmington, NM 87401

 (303) 431-8500 : Fax: (303) 431-3750 :
 www.ruleengineering.com
 : (505) 325-1055

Chail	n-of-Cu	Chain-of-Custody Record	Turn-Arcund Time	ne.				HA	1	NEN	HALL ENVIRONMENTAL	NO	M	LN	AL
Kul	L Engine	Rule Engineering, LLC	A Standard	D Rush			F	AN	AL	IS	ANALYSIS LABORATORY	ABC	DR.	TO	RY
	2	0	Project Name:				U	- mm	w halle	DVILOT	www.hallenvinormental.com	, Hog			
ng Addre.	A 102:00	Mailing Address: 501 Aurort Dr. Ske 205	Sunce Disposed Well #1	sposed (Nee0 # 1	46	01 Ha	wkins		Albuqu	4901 Hawkins NE - Albuquerque, NM 87109	NIM 6	1109		
www	NN. NO	Farmington, NAI 87401	Project #:			F	Tel. 505-345-3375	-345-3		Fax	Fax 505-345-4107	45-41	10		
10 # ()	Phone #. (505)7 16-27.67	-27.87							An	alysis	Analysis Request	190		ľ	
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OA/OC Package	W	□ Level 4 (Full Validation) Heather Words	Heather in	lands					(SWI	S'*Od		_	_	_	_
Accreditation	- Ches		sampler Just	in Valde	sampler Jushin Valchez / Heulin Words	BINL	an la	_		"ON				-	_
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addi l na			ocupie licitation -	i	0	_) E	_	01	-	pia	-	-	-	_
Date Time	e Matrix	Sample Request ID	Container P	Preservative Type	HEAL NO.	ы + хэтв М + хэтв М + хэтв	ISFOS HAT	EDB (Meth HPH (Meth	EB) a'HA9	M 8 AADA (, 1) anuinA	0294 F808	DV) E0358 mb2) 0758	any us	RCI	
12 1015	Walw	3/4/12/1015 Water 5-3 (3/14/17) /	(2) 500 mL Park Non	Non	100-							-	×	X	
		1	(1) SOO and Placker	HN0.						-		-			_
-		~	(1)500 nu Plani	Naph				-		-		-		-	-
_			(1) SUDYIN PLAK TIA CUM	Zinc Actual						-		-			
		2	(1)125mLPank	Hason				-		-		-			
												-			_
Date: Time: 1417 1605 Date: Time:	yd benaughan	May West	Received Sy ONUSELL Received St	1)all	Ume Ume	Remarks: Andrea, 4, pH, EHSPECH, Conductiona, Aurisi Barning: and Editoris, and an including Alucinete, cultum potissisism, mannum, sedum Ecarbonas, Currowsk	S. Ans	Plas 6 Cablo	to so	Et.	speck inclu	ti Co	Alux Plux	Hance,	the factor
		t. I. Dollar	1 Mai	Y	USIIGI 1	Chloride Sulfak, TDS, calmon langer balance, and	Le Su	J. Falles	SOL	Call	al un	D THI	nd c	Lanc	a, an

Ms. Shacie Murray

Sunco Disposal #1: Injection Water Monitoring - 2nd Qtr 2017 July 24, 2017 Page 2 of 3

Constituent	Labora	atory Value	Field Measurement
Total Dissolved Solids	21,000	mg/L	
Bicarbonate (As CaCO ₃)	1,121	mg/L CaCO₃	
Carbonate (As CaCO ₃)	<5.000	mg/L CaCO₃	
Fluoride	<0.50	mg/L	
Chloride	11,000	mg/L	
Bromide	14	mg/L	
Phosphorous, Orthophosphate	3.4	mg/L	
Sulfate	2,000	mg/L	
Nitrate + Nitrite (as N)	<20	mg/L	
Calcium	1,100	mg/L	
Magnesium	53	mg/L	
Potassium	1,100	mg/L	
Sodium	5,600	mg/L	
Reactive Cyanide	0.0703	mg/L	
Reactive Sulfide	0.199	mg/L	
Corrosivity by pH	6.88		
Flashpoint	Did not f	lash at 170°F	

QA/QC Considerations

Field measurements for time sensitive parameters including pH, temperature, reduction measurements to the sensitive parameters including pri, 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 removed from the stable environment of the process line. 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 due to an initial dilution made during sample preparation based on the visual observations of laboratory personnel indicating the need for the dilution. Results for fluoride, chloride, sulfate and total dissolved solids exceed the maximum analytical level reportable by the laboratory which should be taken into consideration in evaluation of water quality characteristics.



Ms. Shacie Murray Sunco Disposal #1: Injection Water Monitoring – 2nd Qtr 2017 July 24, 2017 Page 3 of 3

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 Rule's report and Service 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.

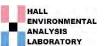
Rule Engineering appreciates the opportunity to provide services to Agua Moss LLC. If you have any questions, please contact me at (505) 325-1055.

Sincerely, Rule Engineering, LLC

Heather M. Woods, P.G.

Area Manager/Geologist

Attachments: Laboratory Analytical Report (Hall: 1706623)



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

OrderNo.: 1706623

July 05, 2017 Heather Woods Rule Engineering LLC 501 Airport Dr., Ste 205 Farmington, NM 87401 TEL: (505) 325-1055 FAX

RE: Sunco Disposal Well 1

Dear Heather Woods

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/13/2017 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 <u>www.hallenvironmental.com</u> 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. provided if the sample analysis of 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 #NM0190

Sincerely, andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

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Hall E	nvironmental Analysis	s Labora	tory, In	c.			Analytical Report Lab Order 1706623 Date Reported: 7/5/201'	7
CLIENT: Project: Lab ID:	: Rule Engineering LLC Sunco Disposal Well 1 1706623-001	Matrix:	AQUEOUS			te: 6/1	4 (6/12/17) 2/2017 10:30:00 AM 3/2017 7:55:00 AM	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	Batch
SPECIFI	C GRAVITY						Analyst	JRR
Specific	Gravity	1.009	0			1	6/16/2017 11:37:00 AM	R43561
EPA ME	THOD 300.0: ANIONS						Analyst	MRA
Fluoride		ND	0.50		mg/L	5	6/13/2017 11:26:57 AM	R43459
Chloride		11000	500	*	mg/L	1E	6/27/2017 3:07:57 PM	R43827
Bromide	•	14	10		mg/L	100	6/28/2017 4:47:09 AM	R43827
Phospho	orus, Orthophosphate (As P)	3.4	2.5		mg/L	5	6/13/2017 11:26:57 AM	
Sulfate		2000	50	*	mg/L		6/28/2017 4:47:09 AM	R43827
Nitrate+	Nitrite as N	ND	20		mg/L	100	6/28/2017 4:59:33 AM	R43827
SM2510	B: SPECIFIC CONDUCTANCE						Analyst	JRR
Conduct	livity	42000	50		µmhos/cm	10	6/21/2017 2:21:57 AM	R43705
SM23208	B: ALKALINITY						Analyst	JRR
Bicarbo	nate (As CaCO3)	1121	50.00		mg/L CaCO3	2.5	6/21/2017 2:00:55 AM	R43705
Carbona	ate (As CaCO3)	ND	5.000		mg/L CaCO3	2.5	6/21/2017 2:00:55 AM	R43705
Total All	kalinity (as CaCO3)	1121	50.00		mg/L CaCO3	2.5	6/21/2017 2:00:55 AM	R43705
SM25400	C MOD: TOTAL DISSOLVED SC	LIDS					Analyst	KS
Total Di	ssolved Solids	21000	200	*D	mg/L	1	6/15/2017 3:53:00 PM	32279
SM4500-	H+B: PH						Analyst	JRR
pН		7.43		н	pH units	1	6/15/2017 6:04:38 PM	R43555
EPA ME	THOD 200.7: TOTAL METALS						Analyst	pmf
Calcium		1100	100		mg/L	100	6/27/2017 2:31:49 PM	32417
Magnes	ium	53	5.0		mg/L	5	6/22/2017 8:08:12 PM	32417
Potassiu	ım	1100	100		mg/L	100	6/27/2017 2:31:49 PM	32417
Sodium		5600	100		mg/L	100	6/27/2017 2:31:49 PM	32417

1706623-001C S-4 (6/12/17) SAMPLE RESULTS - 01 ONE LAB. NATIONWIDE. Collected date/time: 06/12/17 10:30 Wet Chemistry by Method 4500 CN E-2011 Result mg/l 0.0703 Batch Analyte WG991122 Wet Chemistry by Method 9034-9030B Ss Result mg/l 0.199 Batch Qualifier Analyte Reactive Sulfide Cn 0.0500 06/19/2017 12:38 WG590728 Wet Chemistry by Method 90400 Re Batch Qualifier Qc Analyte Corrosivity by pH date / tim 6.88 Τŝ 06/16/2017 16:34 WG989423 GI Sample Narrative: 9040C L9/5964-01 WG989423: 6.88 at 10.4c Wet Chemistry by Method D93/1010A Sc Result Analysis Batch Qualifier Analyte Flashpoint deg F DNF at 170 06/21/2017 01:42 WG990892

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

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

Qualifiers:

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
 Page 1 of 6

 P
 Sample pH Not In Range
 Page 1 of 6

RL Reporting Detection Limit W Sample container temperature is out of limit as specified

ACCOUNT:

Hall Fr

ntal Analysis Laboratory

PROJECT:

DATE/TIME: 06/21/17 10:19

SDG: L915964

Sr S	oke LAB LAANDONNODE SG SG SG SG SG SG SG SG SG SG SG SG SG	
stand Crass % K	AAYETING 062207 2019 50 20	DATETINE BETTY VIS
QUALITY CONTROL SUMMARY Serveral Dependence of Policies Dependence of Polici	Modefit: Lesses QUALITY CONTROL SUMMARY Displayed to LCSD; De Duplicate LCSD; L LCBPit. Inter LCSD; L LCBPit.	800 Angeri
866 JU 20 20 20 20	ADALITY QUALITY Mareo. Mareo. 00500 00500 00500 00500 00500 00500 00500 00500 00500 00500 00500 00500 00500 00500 00500 0000 0000 0000 0000 0000 0000 0000 0000	PROJECT
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IMARY ONE LAR FAMILY	and the state of t	

GLOSSARY OF TERMS

ONE LAB. NATIONWIDE

AL

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TB	Sample(s) received past/too close to holding time expiration.	°α
Qualifier	Description	
		SI
Rec.	Recovery.	
onginal sample	from a quality control sample. The Original Sample may not be included within the reported SDG.	°c
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD)	
RPD	Relative Percent Difference.	°S
U	Not detected at the Reporting Limit (or MDL where applicable).	5
ND	Not detected at the Reporting Limit (or MDL where applicable).	
RDL	Reported Detection Limit.	P Y
MDL	Method Detection Limit.	-
SDG	Sample Delivery Group.	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Client: Rule Engineering LLC Sunco Disposal Well 1 Project: _____ Sample ID MB-32417 TestCode: EPA Method 200.7: Total Metals SampType: MBLK Client ID: PBW Batch ID: 32417 RunNo: 43729 Prep Date: 6/21/2017 Analysis Date: 6/22/2017 SeaNo: 1377954 Units: ma/L Result Analyte Calcium PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit 1.0 1.0 1.0 1.0 1.0 Magnesium Potassium ND ND Sodium ND Sample ID LCSLL-32417 SampType: LCSLL TestCode: EPA Method 200.7: Total Metals Client ID: BatchOC Batch ID: 32417 RunNo: 43729 Analysis Date: 6/22/2017 Prep Date: SeqNo: 1377955 Units: mg/L Analyte Calcium Magnesium Potassium Sodium
 PQL
 SPK value
 SPK Ref Val
 %REC
 LowLimit

 1.0
 0.5000
 0
 99.4
 50

 1.0
 0.5000
 0
 108
 50

 1.0
 0.5000
 0
 131
 50

 1.0
 0.5000
 0
 131
 50

 1.0
 0.5000
 0
 131
 50
 HighLimit 150 Result ND %RPD RPDLimit Qua ND ND ND ND 150 150 150 Sample ID LCS-32417 SampType: LCS FestCode: EPA Method 200.7: Total Metal Client ID: LCSW Batch ID: 32417 RunNo: 43729 Analysis Date: 6/22/2017 SeqNo: 1377956 Units: mg/L Prep Date: 6/21/2017 Analyte Calcium
 Result
 PQL
 SPK value
 SPK Ref Val
 %REC
 LowLimit
 HighLimit

 49
 1.0
 50.00
 0
 98.4
 85
 115
 %RPD RPDLimit Qua Magnesium Potassium Sodium 49 52 50 51 1.0 1.0 1.0 50.00 50.00 50.00 103 99.5 102 115 115 115 115 0 85 85 Sample ID 1706623-001BMS SampType: MS TestCode: EPA Method 200.7: Total Metals Batch ID: 32417 Client ID: S-4 (6/12/17) RunNo: 43729 Analysis Date: 6/22/2017 SeqNo: 1377993 Units: mg/L Prep Date: 6/21/2017
 Result
 PQL
 SPK value
 SPK Ref Val
 %REC
 LowLimit
 HighLimit
 %RPD
 RPDLimit

 93
 5.0
 50.00
 53.09
 80.5
 70
 130
 Analyte Magnesium Qual Sample ID 1706623-001BMSD SampType: MSD TestCode: EPA Method 200.7: Total Metals Client ID: S-4 (6/12/17) Batch ID: 32417 RunNo: 43729 Prep Date: 6/21/2017 Analysis Date: 6/22/2017 SeqNo: 1377994 Units: mg/L

 Result
 PQL
 SPK value
 SPK Ref Val
 %REC
 LowLimit
 HighLimit

 97
 5.0
 50.00
 53.09
 87.8
 70
 130
 RPDLin 3.8

- Qualifiers:

 *
 Value exceeds Maximum Contaminant Level.

 D
 Sample Diluted Due to Matrix

 H
 Folding times for preparation or analysis exceeded

 ND
 Nex 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 Value above quantitation range
- J Analyte detected below quantitation limits P Sample pH Not In Range Sample pH Not In Range

Page 2 of 6

WO#:

1706623

05-Jul-17

- RL Reporting Detection Limit W Sample container temperat ature is out of limit as specified

ACCOUNT: mental Analysis Laboratory

QC SUMMARY REPORT WO#: 1706623 Hall Environmental Analysis Laboratory, Inc. 05-Jul-17

PROJECT:

SDG: L9/5964

DATE/TIME: 06/21/17 10:19

Client: Project:	Rule Engineerii Sunco Disposal	~								
Sample ID MB	Sa	impType: m	ıblk	Tes	tCode: El	PA Method	300.0: Anions	5		
Client ID: PBW	1	Batch ID: R	43459	F	RunNo: 4	3459				
Prep Date:	Analy	sis Date: 🤅	5/13/2017	5	SeqNo: 1:	369367	Units: mg/L			
Analyte	Res	ult PQL	SPK value	SPK Ref Val	%REC	Low/ imit	HighLimit	%RPD	RPDLimit	Qual
Fluoride		ID 0.10		of rentor yar	June 20	LOWLINK	rightennik	Jord D	To Denne	quui
Phosphorus, Orthophor	phate (As P N	ID 0.50	1							
Sample ID LCS	Sa	impType: Ic	s	Tes	tCode: El	PA Method	300.0: Anions	5		
Client ID: LCSW		Batch ID: R	43459	F	RunNo: 4	3459				
Prep Date:	Analy	sis Date: 🤅	6/13/2017	5	SeqNo: 1	369368	Units: mg/L			
Analyte	Res	ult PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.			0	109	90	110			
Phosphorus, Orthophor	phate (As P 4	.9 0.50	5.000	0	98.6	90	110			
Sample ID MB	Sa	impType: m	ıblk	Tes	tCode: El	PA Method	300.0: Anions	5		
Client ID: PBW	1	Batch ID: R	43827	F	RunNo: 4	3827				
Prep Date:	Analy	sis Date: 6	6/27/2017	5	SeqNo: 1	381049	Units: mg/L			
Analyte	Res			SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ID 0.50								
Bromide		ID 0.10								
Sulfate		ID 0.50								
Nitrate+Nitrite as N	P	ID 0.20								
Sample ID LCS	Sa	impType: Ic	:s	TestCode: EPA Method 300.0: Anions				5		
Client ID: LCSW	·	Batch ID: R	43827	F	RunNo: 4	3827				
Prep Date:	Analy	sis Date: 6	6/27/2017	5	SeqNo: 1	381050	Units: mg/L			
Analyte	Res			SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4	.6 0.50		0	92.3	90	110			
Bromide	-	.4 0.10		0	95.5	90	110			
Sulfate	-	0.4 0.50		0	94.1	90	110			
Nitrate+Nitrite as N	3	1.3 0.20	3.500	0	94.6	90	110			
Sample ID MB	Sa	mpType: m	ıblk	Tes	tCode: El	PA Method	300.0: Anions	5		
Client ID: PBW	1	Batch ID: R	43827	F	RunNo: 4	3827				
Prep Date:	Analy	sis Date: 6			SeqNo: 1		Units: mg/L			
Analyte	Res			SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ID 0.50								
Bromide		ID 0.10								
Sulfate Nitrate+Nitrite as N		ID 0.50								

Qualifiers:

- Value exceeds Maximum Contaminant Level.

- Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 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
- E Value above quantitation range J Analyte detected below quantitation limits Sample pH Not In Range Reporting Detection Limit
- RL

Sample container temperature is out of limit as specified W

B Analyte detected in the associated Method Blank

Page 3 of 6

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Rule Engineering LL Sunco Disposal Wel									
Sample ID LCS	SampTy	pe: Ics	3	Tes	Code: El	PA Method	300.0: Anions	5		
Client ID: LCSW	Batch	ID: R4	3827	F	tunNo: 4	3827				
Prep Date:	Analysis Da	ate: 6/	27/2017	s	eqNo: 1	381918	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	96.7	90	110			
Bromide	2.5	0.10	2.500	0	99.8	90	110			
Sulfate	9.8	0.50	10.00	0	98.1	90	110			
Nitrate+Nitrite as N	3.5	0.20	3.500	0	98.8	90	110			

Qualifiers: Value exceeds Maximum Contaminant Level.

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

- Sample pH Not In Range Reporting Detection Limit RL

E

Value above quantitation range Analyte detected below quantitation limits Sample container temperature is out of limit as specified

B Analyte detected in the associated Method Blank

Page 4 of 6

WO#: 1706623 05-Jul-17

WO#: 1706623 Hall Environmental Analysis Laboratory, Inc. 05-Jul-17

Client: Project:	Rule Engineering LL0 Sunco Disposal Well						
Sample ID mb	1 SampTyp	e: mblk	Tes	tCode: SM2320B: A	lkalinity		
Client ID: PB	N Batch I	C: R43705	F	RunNo: 43705			
Prep Date:	Analysis Dat	e: 6/20/2017	5	SeqNo: 1376590	Units: mg/L CaCO3		
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RPI	RPDLimit	Qual
Total Alkalinity (as C	aCO3) ND :	20.00					
Sample ID Ics-	1 SampTyp	e: Ics	Tes	tCode: SM2320B: A	lkalinity		
Client ID: LCS	W Batch I	D: R43705	F	RunNo: 43705			
Prep Date:	Analysis Dat	e: 6/20/2017	S	SeqNo: 1376591	Units: mg/L CaCO3		
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RPI	RPDLimit	Qual
Total Alkalinity (as C	aCO3) 78.00	20.00 80.00	0	97.5 90	110		
Sample ID mb-	2 SampTyp	e: mblk	Tes	tCode: SM2320B: A	lkalinity		
Client ID: PB	N Batch I	D: R43705	F	RunNo: 43705			
Prep Date:	Analysis Dat	e: 6/20/2017	S	SeqNo: 1376614	Units: mg/L CaCO3		
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RPI	RPDLimit	Qual
Total Alkalinity (as C	aCO3) ND :	20.00					
Sample ID Ics-	2 SampTyp	e: Ics	Tes	tCode: SM2320B: A	lkalinity		
Client ID: LCS	W Batch I	D: R43705	F	RunNo: 43705			
Prep Date:	Analysis Dat	e: 6/20/2017	S	SeqNo: 1376615	Units: mg/L CaCO3		
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RPI	0 RPDLimit	Qual
Total Alkalinity (as C	aCO3) 78.28	20.00 80.00	0	97.9 90	110		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706623 05-Jul-17

Wilts-

What

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173D

517

Client: Project:		Engineering LLC ODisposal Well 1									
Sample ID Client ID:	MB-32279 PBW	SampType Batch ID				tCode: S RunNo: 4		DD: Total Diss	olved So	lids	
Prep Date:	6/14/2017	Analysis Date	6/	15/2017	S	SeqNo: 1	371252	Units: mg/L			
Analyte		Result F	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolver	d Solids	ND	20.0								
Sample ID	LCS-32279	SampType	: LC	s	Tes	tCode: S	M2540C MC	D: Total Dise	olved So	lids	
Client ID:	LCSW	Batch ID	: 322	279	F	RunNo: 4	3539				
Prep Date:	6/14/2017	Analysis Date	6/	15/2017	S	SeqNo: 1	371253	Units: mg/L			
Analyte		Result F	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolver	d Solids	1030	20.0	1000	0	103	80	120			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Received By: Anne Thorne

Reviewed By: ENM

Chain of Custody

Log In

Completed By: Ashley Gallegos

2. Is Chain of Custody complete?

3. How was the sample delivered?

6. Sample(s) in proper container(s)?

9. Was preservative added to bottles?

12. Does paperwork match bottle labels?

10.VOA vials have zero headspace?

Client Name: RULE ENGINEERING LL

1. Custody seals intact on sample bottles?

4. Was an attempt made to cool the samples?

7. Sufficient sample volume for indicated test(s)?

11. Were any sample containers received broken?

(Note discrepancies on chain of custody)
 (3, Are matrices correctly identified on Chain of Custody)
 14, Is it clear what analyses were requested?

8, Are samples (except VOA and ONG) properly preserv

5. Were all samples received at a temperature of $\,{>}0^{*}\,C$ to $6.0^{*}C$

- PQL Practical Quantative Limit S % Recovery outside of range due to dilution or matrix
- Sample pH Not In Range

Hall Environmental Analysis Labora

Work Order Number: 1706623

6/13/2017 7:55:00 AM

6/13/2017 8:49:15 AM

06/13/17

RL Reporting Detection Limit W Sample container temperat ure is out of limit as specified

Value above quantitation range

J Analyte detected below quantitation limits

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

Yes 🗆

Yes 🗹

Courier

Yes 🗹

Yes 🗹

Yes 🗹

Yes 🗹

Yes 🗹

Yes 🕑

Yes 🗌

Yes 🗆

Yes 🗹

Vite felt

Yes ₽

am In

No 🗆

No 🗆

No 🗌

No 🗆

No 🗆

No 🗆

No 🖌

No 🗆

140 🖵 No 📑 No 🗐

NO P Stee

NO-R-SIEC NA []

No 🗌 No VOA Vials 🗹

AZ

Analyte detected in the associated Method Blank

Page 5 of 6

Sample Log-In Check List

Not Present 🗹

Not Present

NA 🗌

NA 🗆

of preserved 2, 2 bottles checked 2, 2

Checked by: Spe

... yes

RoptNo: 1

Qualifiers: Value exceeds Maximum Contaminant Level.

Value exceeds Maximum Cont
 D Sample Diluted Due to Matrix

Mailing Address.

Clien

DA/QC Package:

Standard JALAP (adix) lime

Date

- B Analyte detected in the associated Method Blank
 - Value above quantitation range
- H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit J Analyte detected below quantitation limits Page 6 of 6 Sample pH Not In Range PQL Practical Quanitative Limit S % Recovery outside of range due to dilution or matrix RL Reporting Detection Limit W Sample container temperat ature is out of limit as specified (N to Y) reliding the HALL ENVIRONMENTAL ANALYSIS LABORATORY TOY X X 200 Grandinks 109 505-345-4107 Request www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 871 (AOV-ImeS) 0128 SEOB (VOA) 8081 Pesticides / 8082 PCB's Analysis (POS'POd'2ON"CON'IO'H) sugur RCRA 8 Metals data will a (SMIS D/ZE JO DLER) SHAH 505-345-3975 (L.#08 bernad 504.1) (1.814 borben) HIT TPH 8015B (GEO / DRO / MRO) Tel. 101 BTEX + MTBE + TPH (Gas only) BTEX + MIBE + TMB's (8021) Time 1730 Time 2520 HEAL NO. 00 ulation to the state Well # 1 HEATHER WOODS (1) SOOM Plante - Vall hack (1)125 mLPlashL ~ H 2504 □ Rush () 500 mL Pushic - HNO3 Non shoow Usoposia Type Tum-Around Time: roject Manager Must ~ Healther 1 p Standard Project Name: (2) SOOML Pla. Container Type and # Sampler: On Irst-Sample Ti Junco rolect #:

15. Were all holding times able to be met? (If no, notify customer for authorization.)
Special Handling (if applicable)

16, Was client notified of all discre	epancies with this order?		res 🗆		No 🗆	NA	
Person Notified:		Date					
By Whom:		Via:	eMail	Phone	E Fax	In Person	
Regarding:				and the state of t	a beacheading and		
Client Instructions:							

Conterminations I metals analysis: hidded 1 mit tiNOx to -0018 by acceptable pH. Heid for 24 hrs prior to analysis: 06/13/17 & 025 Sec. 18. Contermination ConterNo Temp C | Constitut Seat Intact Seat No | Seat Date | Signed By 1 10 Good Yes Signed By 1 10 Good Yes (1/13/17 to -001C (1/13/17 to -001C)

email or Fax#: hwoods@ rul ungineering com S \$ 501 Arrest & 54205 Ann. N.M. 87401 \$51716-2757 D Level 4 (Full Validation) Request ID Chain-of-Custody Record 5-4 (6112/17) Wec Rule Engineering LLC N. Sample [Farmington, NM 8 thoma #: (505) 716-27 Aleath. Other Waltz Matrix

1030

1/2/12

Agua Moss Surface Waste Management Facility Quarterly Monitoring Services – 3rd Quarter 2017

Agua Moss Surface Waste Management Facility (NM1-9-0) Quarterly Monitoring Services – 3rd Quarter 2017 NW ¼, Section 2, Township 29 North, Range 12 West San Juan County, New Mexico

October 10, 2017

Prepared for: Agua Moss LLC P.O. Box 600 Farmington, New Mexico 87499

Prepared by: Rule Engineering, LLC 501 Airport Drive, Suite 205 Farmington, New Mexico 87401 Prepared for:

Agua Moss LLC P.O. Box 600 Farmington, New Mexico 87499

Prepared by:

Rule Engineering, LLC 501 Airport Drive, Suite 205 Farmington, New Mexico 87401

Heather M. Woods

Heather M. Woods, P.G., Area Manager

Reviewed by:

Russell Knight, PG, Principal Hydrogeologist

October 10, 2017



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2.0	Site Specific Background Concentrations	. 1
3.0	Field Activities	. 1
4.0	Soil Sampling	. 2
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Table

Table 1 Laboratory Analytical Results

Figures

Figure 1 Topographic Map Figure 2 Aerial Site Map

Appendices

Appendix A Analytical Laboratory Report

Agua Moss Surface Waste Management Facility Quarterly Monitoring Services – 3rd Quarter 2017

1.0 Introduction

The Agua Moss Surface Waste Management Facility, hereinafter the "Facility", is located in the NW ¼, Section 2, Township 29 North, Range 12 West, in San Juan County, New Mexico. Rule Engineering LLC (Rule) personnel performed monitoring services for the 3rd Quarter of 2017 on September 1, 2017. Quarterly monitoring services are performed in accordance with the *Closure Plan: Permit NM1-9-0* dated June 1, 2015, which was approved by the New Mexico Oil Conservation Division (NMOCD) with amendments on July, 1, 2015.

A topographic map of the location reproduced from the United States Geological Society quadrangle map of the area is included as Figure 1 and an aerial site map is included as Figure 2.

2.0 Site Specific Background Concentrations

Background concentrations for constituents of concern have be determined for the Facility through previous work. Background concentrations for constituents of concern analyzed during 3° Quarter of 2017 sampling include: 0.2 milligrams per kilogram (mg/kg) benzene, 0.01 mg/kg toluene, 0.01 mg/kg ethylbenzene, 0.01 mg/kg p.m-xylene, 0.01 mg/kg total BTEX¹, 0.2 mg/kg total petroleum hydrocarbons (TPH) as gasoline range organics (GRO), 0.1 mg/kg TPH as disest range organics (DRO) and 0.1 Mg/kg TPH as determined by United States Environmental Protection Agency (USEPA) Method 8015B. Per 19.15.36.15 NMAC, laboratory results are compared to the higher of the laboratory practical quantitation limit (PQL) or background soil concentrations to determine whether a release has occurred.

3.0 Field Activities

On September 1, 2017, Rule Engineering, LLC (Rule) personnel conducted soil sampling of the two treatment cells that comprise the Facility. One soil sample location was selected at random from each of the three designated areas (Cell #1, Cell #2 – North, and Cell #2 – South), resulting in the collection of three total samples. The soil samples were collected from the vadose zone utilizing a backhoe. The approximately 1 to 2 feet of treatment zone soils were scraped away from the selected sample locations to avoid accidental contamination of the vadose zone below. Then a pothole was advanced 3 to 4 feet below the treatment zone depth where a sample was collected for laboratory analysis at all three locations. A sample locations are illustrated on the aerial site map included as Figure 2.

¹ Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)



i



4.0 Soil Sampling

Rule collected one soil sample from the vadose zone 3 to 4 feet below the treatment zone at each of the potholes in the designated locations, for a total of three soil samples (Cell #1, Cell #2 - North, and Cell #2 - South).

Soil samples collected for laboratory analysis were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico. All samples were analyzed for BTEX per USEPA Method 8021B and TPH per USEPA 8015M/D.

Laboratory analytical results are summarized in Table 1 and the analytical laboratory report is included in Appendix A.

5.0 Laboratory Analytical Results

Laboratory analytical results for samples Cell #1 Vadose, Cell #2 - North Vadose, and Cell #2 – South Vadose, collected on September 1, 2017, reported the BTEX and TPH constituent concentrations below the PQL and no qualifiers were included to indicate the presence of non-quantifiable BTEX and TPH constituent concentrations below the PQL.

No quality assurance/quality check (QA/QC) qualifiers were indicated on the laboratory analytical report and review of the QA/QC data supports the suitability of the results.

Laboratory analytical results are summarized in Table 1 and the analytical laboratory report is included in Appendix A.

6.0 Conclusions

The Agua Moss Surface Waste Management Facility is located in NW ¼, Section 2, Township 29 North, Range 12 West, in San Juan County, New Mexico. Quarterly monitoring services including the collection of three samples from the vadoes zone were collected on September 1, 2017. One vadoes zone sample was collected at 3 to 4 feet below the treatment zone depth from each of the three designated areas (Cell #1, Cell #2 - North, and Cell #2 - South) from randomly selected locations.

Laboratory analytical results for the vadose zone samples indicate that no leaching of treatment zone constituents of concern has been identified at this time at each sample location. Quarterly monitoring is ongoing and will conducted in the 4th Quarter 2017.

7.0 Closure and Limitations

This report has been prepared for the exclusive use of Agua Moss and is subject to the terms, conditions, and limitations stated in Rule's report and Service Agreement with Agua Moss. All work has been performed in accordance with generally accepted



Agua Moss Surface Waste Management Facility Quarterly Monitoring Services – 3rd Quarter 2017

Table

Agua Moss Surface Waste Management Facility Quarterly Monitoring Services – 3rd Quarter 2017

professional environmental consulting practices. No other warranty is expressed or implied.

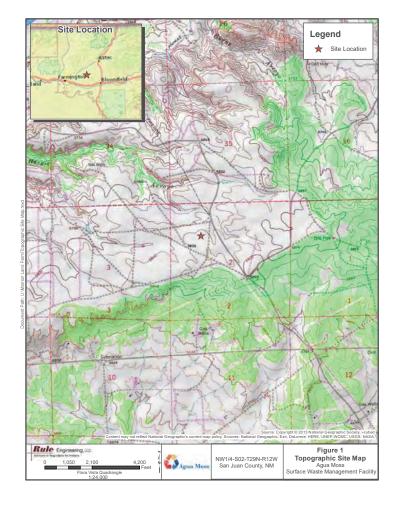
Rule

2

Table 1. Laboratory Analytical Results Agua Moss Surface Waste Management Facility Quartery Monitoring - 3rd Quarter 2017 San Juan County, New Mexico	Analytical Waste Ma J - 3rd Qu ew Mexico	l Results nagement Fac arter 2017 o	ility								
Sam nle Name	Date	Approximate Sample Depth (ft hos)	Benzene (ma/ka)	Toluene (ma/ka)	Ethylben- zene (ma/ka)	Total Xylenes** (mo/ko)	Total Xylenes** Total BTEX (mo/ko)	TPH as GRO (mo/ko)	TPH as DRO (ma/ka)	TPH as MRO (md/kg)	Total TPH (md/k.d)
	Backgroun	Background Concentration*	0.01	0.01	0.01	0.01	0.01	0.2	0.1	NE	0.1
Cell #1 Vadose	9/1/2017	5 to 6	<0.023	<0.047	<0.047	<0.093	g	<4.7	<9.5	<48	Q
Cell #2 - North Vadose	9/1/2017	5 to 6	<0.024	<0.048	<0.048	<0.096	Q	<4.8	<9.5	<47	QN
Cell #2 - South Vadose	9/1/2017	5 to 6	<0.023	<0.047	<0.047	<0.094	QN	<4.7	<10	<50	ΠN
N otes:	ft bgs - feet below gramg/kg - milligrams pe BTEX - benzene, toli NE - not established ND - not detected ab	It bgs - feet below grade surface mg/kg - milligrams per kilogram TEX - bearcene, loluene, ethybenzene, and xylenes NE - not established ND - not deleted above laboratory reporting limits	e n Ibenzene, anc atory reporting	xylenes limits		*Site specific **Includes bot	*Includes both p.m-xylene and o-xylene	and o-xylene			

3





Agua Moss Surface Waste Management Facility Quarterly Monitoring Services – 3rd Quarter 2017

Appendix A

Analytical Laboratory Report

Figures





Rule



September 11, 2017 Heather Woods Rule Engineering LLC 501 Airport Dr., Ste 205 Farmington, NM 87401 TEL: (505) 325-1055 FAX

RE: Agua Moss Landfarm

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 3 sample(s) on 9/2/2017 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 <u>www.hallenvironmental.com</u> 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 #NM0190



andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

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

OrderNo.: 1709150

Hall Environmental Analysis Laboratory, Inc.	Analytical Report Lab Order 1709150 Date Reported: 9/11/2017
CLIENT: Rule Engineering LLC	Client Sample ID: Cell #1 Vadose
Project: Agua Moss Landfarm	Collection Date: 9/1/2017 9:40:00 AM

rioject. Agua Moss Landiann	Concerton Date. 7/12017 7.40.00 AM								
Lab ID: 1709150-001	Matrix:	SOIL	Received Date: 9/2/2017 12:50:00 PM						
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch			
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	s			Analys	t: TOM			
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	9/7/2017 3:05:43 PM	33721			
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/7/2017 3:05:43 PM	33721			
Surr: DNOP	76.4	70-130	%Rec	1	9/7/2017 3:05:43 PM	33721			
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: RAA			
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/7/2017 3:24:08 PM	33725			
Surr: BFB	89.7	54-150	%Rec	1	9/7/2017 3:24:08 PM	33725			
EPA METHOD 8021B: VOLATILES					Analys	t: RAA			
Benzene	ND	0.023	mg/Kg	1	9/7/2017 3:24:08 PM	33725			
Toluene	ND	0.047	mg/Kg	1	9/7/2017 3:24:08 PM	33725			
Ethylbenzene	ND	0.047	mg/Kg	1	9/7/2017 3:24:08 PM	33725			
Xylenes, Total	ND	0.093	mg/Kg	1	9/7/2017 3:24:08 PM	33725			
Surr: 4-Bromofluorobenzene	97.6	66.6-132	%Rec	1	9/7/2017 3:24:08 PM	33725			

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 Dhuted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL. Practical Quantitative Limit
 \$ % 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
 Page 1 of 6
 Sample pH Not In Range
 RL Reporting Detection Limit
 W Sample container temperature is out of limit as specified

Analytical Report

Hall Environmental Analys	is Labora	tory, Inc.			Analytical Report Lab Order 1709150 Date Reported: 9/11/20	17
CLIENT: Rule Engineering LLC			Client Sampl	e ID: Ce	ll #2 North Vadose	
Project: Agua Moss Landfarm			Collection 1	Date: 9/1	/2017 9:15:00 AM	
Lab ID: 1709150-002	Matrix:	SOIL	Received I	Date: 9/2	2/2017 12:50:00 PM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	9/7/2017 3:27:55 PM	33721
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/7/2017 3:27:55 PM	33721
Surr: DNOP	84.5	70-130	%Rec	1	9/7/2017 3:27:55 PM	33721
EPA METHOD 8015D: GASOLINE RAM	IGE				Analys	t: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/7/2017 4:35:12 PM	33725
Surr: BFB	89.7	54-150	%Rec	1	9/7/2017 4:35:12 PM	33725
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.024	mg/Kg	1	9/7/2017 4:35:12 PM	33725
Toluene	ND	0.048	mg/Kg	1	9/7/2017 4:35:12 PM	33725
Ethylbenzene	ND	0.048	mg/Kg	1	9/7/2017 4:35:12 PM	33725
Xylenes, Total	ND	0.096	mg/Kg	1	9/7/2017 4:35:12 PM	33725
Surr: 4-Bromofluorobenzene	97.4	66.6-132	%Rec	1	9/7/2017 4:35:12 PM	33725

Hall Environmental Analy CLIENT: Rule Engineering LLC	sis Labora	tory, Inc.	-		Lab Order 1709150 Date Reported: 9/11/20	17
Project: Agua Moss Landfarm Lab ID: 1709150-003	Matrix:	SOIL			1/2017 9:30:00 AM 2/2017 12:50:00 PM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANIC	s			Analys	t: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/7/2017 3:50:11 PM	33721
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/7/2017 3:50:11 PM	33721
Surr: DNOP	83.6	70-130	%Rec	1	9/7/2017 3:50:11 PM	33721
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/7/2017 5:45:59 PM	33725
Surr: BFB	89.0	54-150	%Rec	1	9/7/2017 5:45:59 PM	33725
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.023	mg/Kg	1	9/7/2017 5:45:59 PM	33725
Toluene	ND	0.047	mg/Kg	1	9/7/2017 5:45:59 PM	33725
Ethylbenzene	ND	0.047	mg/Kg	1	9/7/2017 5:45:59 PM	33725
Xylenes, Total	ND	0.094	mg/Kg	1	9/7/2017 5:45:59 PM	33725
Surr: 4-Bromofluorobenzene	98.0	66.6-132	%Rec	1	9/7/2017 5:45:59 PM	33725

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

- 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
 RQL Practical Quanitative Limit
 % Recovery outside of mage due to dilution or matrix

Qualifiers:

- 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 Detection Limit W Sample container temperature is out of limit as specified

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
 DOL Prostited Constitution 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
 Page 3 of 6

 P
 Sample pH Not In Range
 Page 3 of 6
- RL Reporting Detection Limit W Sample container temperature is out of limit as specified

WO#: 1709150 Hall Environmental Analysis Laboratory, Inc. 11-Sep-17

	igineering L loss Landfar									
Sample ID LCS-33721	SampT	ype: LO	s	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	ID: 33	721	F	RunNo: 4	5469				
Prep Date: 9/6/2017	Analysis D	ate: 9	/7/2017	5	SeqNo: 1	440795	Units: mg/H	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.0	73.2	114			
Surr: DNOP	4.8		5.000		96.9	70	130			
Sample ID MB-33721	SampT	ype: M	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 33	721	F	RunNo: 4	5469				
Prep Date: 9/6/2017	Analysis D	ate: 9	/7/2017	5	SeqNo: 1	440796	Units: mg/H	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								

Iotor Oil Range Organics (MRO) ND Surr: DNOP 11 10.00 108 70 130

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

11-Sep-17

Client: Project:		ineering Ll ss Landfar									
Sample ID	LCS-33725	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	LCSS	Batch	ID: 33	725	F	RunNo: 4	5483				
Prep Date:	9/6/2017	Analysis D	ate: 9	7/2017	S	SeqNo: 1	442487	Units: mg/M	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	26 1000	5.0	25.00 1000	0	104 99.6	76.4 54	125 150			
Sample ID	MB-33725	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	PBS	Batch	ID: 33	725	F	RunNo: 4	5483				
Prep Date:	9/6/2017	Analysis D	ate: 9	7/2017	s	SeqNo: 1	442488	Units: mg/M	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	ND	5.0								
Surr: BFB		900		1000		89.9	54	150			
Sample ID	1709150-002AMS	SampT	ype: M	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	Cell #2 North Vad	os Batch	ID: 33	725	F	RunNo: 4	5483				
Prep Date:	9/6/2017	Analysis D	ate: 9	7/2017	S	SeqNo: 1	442500	Units: mg/M	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	e Organics (GRO)	29	4.8	24.06	0	122	77.8	128			
Surr: BFB		980		962.5		101	54	150			
Sample ID	1709150-002AMS	D SampT	ype: M	SD	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	Cell #2 North Vad	os Batch	ID: 33	725	F	RunNo: 4	5483				
Prep Date:	9/6/2017	Analysis D	ate: 9	7/2017	s	SeqNo: 1	442501	Units: mg/M	ίg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	e Organics (GRO)	28	5.0	24.90	0	112	77.8	128	4.93	20	
Surr: BFB		1000		996.0		101	54	150	0	0	

Qualifiers:

Client:

Project:

Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene

Analyte Benzene

Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzen

Analyte Benzene Toluene Ethylbenzene

Analyte Benzene Toluene Ethylbenzene

Toluene

Client ID: LCSS

Prep Date: 9/6/2017

Sample ID MB-33725

Prep Date: 9/6/2017

Xylenes, Total Surr: 4-Bromofluorobenzene

Prep Date: 9/6/2017

Xylenes, Total Surr: 4-Bromofluorobenzene

Client ID: Cell #1 Vadose

Client ID: PBS

Client ID: Cell #1 Vadose

- Value exceeds Maximum Contaminant Level.
 Sample Diluted Due to Matrix

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

0.98 0.048 0.9588 3.0 0.096 2.876

0.95

Sample ID 1709150-001AMS SampType: MS TestCode: EPA Method 8021B: Volatiles

0.9588

Rule Engineering LLC

Agua Moss Landfarm Sample ID 1709150-001AMSD SampType: MSD

Prep Date: 9/6/2017 Analysis Date: 9/7/2017

Sample ID LCS-33725 SampType: LCS

- 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
- Value above quantitation range J Analyte detected below quantitation limits P Sample pH Not In Range RL Reporting Detection Limit W Sample container temperature is out of limit
- ure is out of limit as specified

B Analyte detected in the associated Method Blank

98.8 66.6 140

142

132

Page 4 of 6

- Qualifiers:
- 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
- Value above quantitation range J Analyte detected below quantitation limits

Page 5 of 6

- Sample pH Not In Range
- RL Reporting Detection Limit W Sample container temperat
 - ature is out of limit as specified

Y REPORT ttal Analysis Laboratory, Inc.	WO#: 170 11-Se	ENVIRONMENTAL ANALYSIS LABORATORY TEL: 505-345-397	l Analysis Laboratory 4901 Hawkins NE buquerque, NM 87109 5 FAX: 505-345-4107 allenvironmental.com		ple Log-In Check List
ingineering LLC Moss Landfarm		Client Name: RULE ENGINEERING LL Work Order Numbe			RoptNo: 1
MSD SampType: MSD TestCode: EPA Method 8021B: Volatiles Batch ID: 33725 RunNo: 45483 Analysis Date: 9/7/2017 SeqNo: 1442492 Units: mg/Kg		Received By: Andy Freeman 9/2/2017 12:50:00 PA Completes By: Ashley Gallegos 9/5/2017 4:47:33 PM Reviewed By: エパ む	1 d	AG	
Result POL SPK value SPK Kef Val %KEC LowLinit HighLinit %KED F 0.80 0.024 0.9699 0 91.3 80.9 132 3.17 0.54 0.048 0.9699 0 95.5 79.8 130 2.26 0.97 0.048 0.9699 0 99.8 79.4 140 1.19 2.9 0.97 2.910 0 99.7 76.5 142 2.54 0.97 0.3699 100 66.6 132 0	RPDLimit Qual 20 20 20 20 20 0	Chain of Custody 1. Custody seals intact on sample bottles? 2. Is Chain of Custody complete? 3. How was the sample delivered?	Yes □ Yes ☑ <u>Courier</u>	No 🗌 No 🗌	Not Present 🗹 Not Present 🗌
SampType: LCS TestCode: EPA Method 8021B: Volatiles Batch ID: 33725 RunNo: 45483 Analysis Date: 9/7/2017 SeqNo: 1442497 Units: mg/Kg		Log In 4. Was an attempt made to cool the samples?	Yes 🗹	No 🗆	NA 🗆
0.90 0.025 1.000 0 89.8 80 120 0.93 0.050 1.000 0 92.9 80 120 0.94 0.050 1.000 0 94.2 80 120	RPDLimit Qual	 Were all samples received at a temperature of >0° C to 6.0°C Sample(s) in proper container(s)? 	Yes 🗹	No 🗆 No 🗆	NA 🗆
2.9 0.10 3.000 0 95.4 80 120 0.99 1.000 99.3 66.6 132 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Batch ID: 33725 RunNo: 45483		 Sufficient sample volume for indicated test(s)? Are samples (except VOA and ONG) properly preserved? Was preservative added to bottles? 	Yes ☑ Yes ☑ Yes □	No 🗆 No 🗔 No 🗹	na 🗋
Analysis Date: 9/7/2017 SeqNo: 1442498 Units: mg/Kg	RPDLimit Qual	10.VOA viais have zero headspace? 11. Were any sample containers received broken?	Yes 🗆 Yes 🗆	No 🗌 No 🗹	No VOA Vials 🗹
ND 0.050 ND 0.050 ND 0.10 0.97 1.000 96.6 66.6 132		12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 13, Are matrices correctly identified on Chain of Custody?	Yes ☑ Yes ☑ Yes ☑	No □ No □ No □	bottles checked for pH: (<2 or >12 unless noted) Adjusted?
MS SampType: MS TestCode: EPA Method 8021B: Volatiles a Batch ID: 33725 RunNo: 45483 Analysis Date: 9/7/2017 SeqNo: 1442499 Units: mg/Kg		14, is it clear what analyses were requested? 15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ⊻ Yes ⊻		Checked by:
Result PQL SPK value SPK ef/Val %REC LowLimit HighLimit %RPD F 0.91 0.024 0.9588 0 95.3 80.9 132 0.96 0.048 0.9588 0 100 79.8 136 0.96 0.048 0.9588 0 100 79.8 140	RPDLimit Qual	Special Handling (if applicable) 16, Was client notified of all discrepancies with this order? Parson Notified:	Yes 🗌	No 🗆	NA 🗹

16.	Vas client notified of all	discrepancies with this order?		Yes L		No 🗆	NA b	₹
	Person Notified:	Г	Date					
	By Whom:	[Via:	eMail	Phone	Fax	In Person	
	Regarding:	[
	Client Instructions:							•

 Cooler No
 Temp *C
 Condition
 Seal Intact
 Seal No
 Seal Date
 Signed By

 1
 4.6
 Good
 Yes
 Intact
 Seal No
 Seal Date
 Signed By

17. Additional remarks: 18. Cooler Information

Page 1 of 1

- Qualifiers: Value exceeds Maximum Contaminant Level.

- Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantiative Limit
 S % Recovery outside of range due to dilution or matrix
- For A market detected in the associated wethout is
 Value above quantitation range
 Value above quantitation range
 Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

0 102 79.4 78.5

0 103

- Page 6 of 6

B Analyte detected in the associated Method Blank

Client:									I			Y		HALL FNUTRONMFNTAL	11
TH	LEN	giner	Clien: Rull Engineering LLC	Project Name:	🛛 Rush			UI	AN	NALYSIS LABC	SIS	1 Street	NBO	ANALYSIS LABORATORY	NY.
Mailing Adc	iress: Si	OI AIN	Mailing Address: SOI Airport Drive, Sk 205	Agua Mass Landhim	in Land	Arm.	46	01 Hav	vkins N	E - A	anbnq	erque.	4901 Hawkins NE - Albuquerque, NM 87109	109	
Farmingdon, NM 874	ing dor	AIN.		Proječat #:				Tel. 505-345-3975	345-36		Fax 505-345-	S05-3	Fax 505-345-4107 alysis Request		
email or Fax#	x# hux (aga:	ends @	Bintering com	Project Manager:	ter.		(1208) (100 set			(SM	(*os**o	s.80e	-		
Accreditation		D Other		Sampler Jus	Shin Valldur	Sampler Jushin Valdic / Hendry Unods		20108		15 0228	3''NON''	Z809/	(No		
D EDD (Type)	(be)			50		9.6 °C	-			_		-		-	5 K)
Date	Time	Matrix	Sample Request ID	Containe ⁺ Type and #	Preservative Type	HEAL No.	876X + 448 110 + X378	BS108 HGT	EDB (Wethorder)	168) e'HA9 M 8 ARDR	D, H) enoinA	DIISOH LSOS	(0A) 80928	_	zalddin£l niA
240 tilin	-	10	Soil Celet + 1 Vados e	() Hore Gau	I	100-	×	×					1		
91/17 915	-	lies	Soi) P. M. # 2 North Vadas (1) 488 Glass	U) yos Glaus	I	1003-	×	X					_		_
9/1/4 930	-	Soil	(1) # 2 South (bolosk()) 4ac but	(I) Has G kun	1	890-	×	×			_		_		-
*														+	
Date Time VI/I ITIV Date Time 5//) 1821	0	Reinquistrec by: Reinquistrec by: Chruch	illerd-	Received by	class.	Cate Time Affict 1710 Cate Time Aft 2/17 1250	Remarks Druch Bull to Agua Moss Rates ar Andy	Part and	Direct Bill to A Rates or Andug	Andy	Ague	Mo	10		

Ms. Shacie Murray

Sunco Disposal #1: Injection Water Monitoring - 3rd Qtr 2017 November 2, 2017 Page 2 of 2

Benzene concentration for sample S-5 was reported as 1.1 mg/L, which exceeds the Toxicity Characteristic Concentration of 0.5 mg/L. The benzene concentration decreased to 0.36 mg/L in sample S-5(R).

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 removed from the stable environment of the process line. 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 reduction potential, phosphorus, and corrosivity by pH.

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

The recovery of a surrogate spike for chlordane was below the anticipated percentage range due to dilution or matrix interference.

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 Rule's report and Service 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.

Rule Engineering appreciates the opportunity to provide services to Agua Moss LLC. If you have any questions, please contact me at (505) 325-1055.

Sincerely, Rule Engineering, LLC

Heather M. Woods Heather M. Woods, P.G.

Area Manager/Geologist

Attachments:

Table 1. Summary of Field Screening and Laboratory Analytical Results Laboratory Analytical Reports (Hall: 1709101 and 1710519)



November 2 2017

Ms. Shacie Murray Agua Moss LLC P O Box 600 Farmington, New Mexico 87499

Sunco Disposal #1 Injection Water Quarterly Monitoring 3rd Quarter 2017

Dear Ms. Murray:

This report summarizes the sample collection, field screening, and laboratory analysis of the injection water at the Agua Moss LLC Sunco Disposal #1 well for the 3rd Quarter 2017. Injection water of the Class I Sunco Disposal #1 well is assessed on a quarterly basis in accordance with 20.6.5207(B) NMAC.

Field Activities

Rule Engineering, LLC (Rule) personnel collected one injection water sample (S-5) from the process line inside the pump building at the location on September 1, 2017. Injection water was discharged from the valve of the process line into a clean, 5-gallon bucket for field screening and transfer to laboratory sample containers.

Upon receipt of the laboratory results, it was discovered that the sample S-5 had not been analyzed for chlordane concentration and that benzene was reported in excess of the Toxicity Characteristic Concentrations per Table 1, 40 CFR 261.24(b). Therefore, an additional sample (S-5(R)) was collected for laboratory analysis on October 9, 2017

Sample Collection and Field Screening Procedures

The injection water sample (S-5) was field screened for time sensitive parameters including pH, temperature, reduction potential (Eh), specific conductance, and total dissolved solids (TDS). Field screening was conducted utilizing a handheld water quality meter calibrated on the day of use with laboratory grade standards.

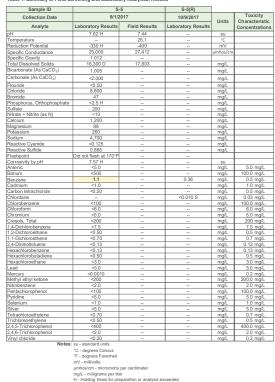
The sampled injection water was placed into laboratory supplied containers, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico.

Field Screening and Laboratory Analytical Results The field screening and laboratory analytical results are summarized in the attached Table 1.

1055 Kipling Street, Lakewood, CO 80215 / 501 Airport Drive #205, Farmington, NM 87401 (303) 431-8500 : Fax: (303) 431-3750 : www.ruleengineering.com : (505) 325-1055

Agua Moss Surnco Disposal #1

Table 1. Summary of Field Screening and Laboratory Analytical Results



D - Sample diluted due to matrix
 S - % Recovery outside of range due to dilution or matix

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1.00

isuie

November 2, 2017



October 03, 2017 Heather Woods Rule Engineering LLC 501 Airport Dr., Ste 205 Farmington, NM 87401 TEL: (505) 325-1055 FAX

RE: Sunco Disposal 1

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/2/2017 for the analyses presented in the following report.

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

Website: www.hallenvironmental.com

OrderNo.: 1709101

Analytical Report

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> 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 #NM0190



andy Andy Freeman Laboratory Manager

4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analy	sis Laborat	ory, Inc.			Analytical Report Lab Order 1709101 Date Reported: 10/3/201	7
CLIENT: Rule Engineering LLC Project: Sunco Disposal 1 Lab ID: 1709101-001	Matrix: A	(AQUEOUS		ate: 9/1	(9/1/17) 2017 9:20:00 AM 2017 12:50:00 PM	
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch
SM4500-H+B: PH					Analyst:	JRR
pH	7.62	н	pH units	1	9/7/2017 6:09:28 PM	R45511
EPA METHOD 7470: MERCURY					Analyst:	DBK
Mercury	ND	0.0010	mg/L	5	9/15/2017 6:48:58 PM	33892
EPA 6010B: TOTAL RECOVERABLE		0.0010	ingre	0		
					Analyst:	
Arsenic	ND	5.0	mg/L	1	9/28/2017 1:33:09 PM	34004
Barium Cadmium	ND ND	500	mg/L	5	9/28/2017 1:12:42 PM	34004 34004
Cadmium	ND 1200	1.0	mg/L	1 20	9/28/2017 1:33:09 PM 9/24/2017 12:35:22 PM	
Chromium	1200 ND	20	mg/L	20	9/24/2017 12:35:22 PM 9/28/2017 1:33:09 PM	34004
Lead	ND	5.0	mg/L mg/L	1	9/28/2017 1:33:09 PM	34004
Magnesium	88	5.0	mg/L	5	9/24/2017 12:38:18 PM	
Potassium	260	5.0	mg/L	5	9/24/2017 12:38:18 PM	
Selenium	ND	1.0	mg/L	1	9/28/2017 1:33:09 PM	34004
Silver	ND	5.0	mg/L	1	9/28/2017 1:33:09 PM	34004
Sodium	4700	100	mg/L		9/22/2017 10:32:07 AM	
TCLP VOLATILES BY 8260B					Analyst:	
Benzepe	1.1	0.50	mg/L	200	9/7/2017 4:47:00 PM	T45499
1,2-Dichloroethane (EDC)	ND	0.50	mg/L		9/7/2017 4:47:00 PM	T45499
2-Butanone	ND	200	mg/L		9/7/2017 4·47·00 PM	T45499
Carbon Tetrachloride	ND	0.50	mg/L	200	9/7/2017 4:47:00 PM	T45499
Chloroform	ND	6.0	mg/L	200	9/7/2017 4:47:00 PM	T45499
1,4-Dichlorobenzene	ND	7.5	mg/L	200	9/7/2017 4:47:00 PM	T45499
1,1-Dichloroethene	ND	0.70	mg/L	200	9/7/2017 4:47:00 PM	T45499
Hexachlorobutadiene	ND	0.50	mg/L	200	9/7/2017 4:47:00 PM	T45499
Tetrachloroethene (PCE)	ND	0.70	mg/L	200	9/7/2017 4:47:00 PM	T45499
Trichloroethene (TCE)	ND	0.50	mg/L	200	9/7/2017 4:47:00 PM	T45499
Vinyl chloride	ND	0.20	mg/L	200	9/7/2017 4:47:00 PM	T45499
Chlorobenzene	ND	100	mg/L	200	9/7/2017 4:47:00 PM	T45499
Surr: 1,2-Dichloroethane-d4	101	70-130	%Rec	200	9/7/2017 4:47:00 PM	T45499
Surr: 4-Bromofluorobenzene	95.2	70-130	%Rec	200	9/7/2017 4:47:00 PM	T45499
Surr: Dibromofluoromethane	102	70-130	%Rec	200	9/7/2017 4:47:00 PM	T45499
Surr: Toluene-d8	93.5	70-130	%Rec	200	9/7/2017 4:47:00 PM	T45499

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

Value exceeds Maximum Contaminant Level.
 Sample Diluted Due to Matrix
 Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 POL Proceeding Ounciletion: Init

Qualifiers:

- PQL Practical Quanitative Limit S % Recovery outside of range due to dilution or matrix

Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 1709101 Date Reported: 10/3/2017

CLIENT: Rule Engineering LLC Project: Sunco Disposal 1 Lab ID: 1709101-001	Matrix:	AQUEOUS		ate: 9/1	5 (9/1/17) /2017 9:20:00 AM /2017 12:50:00 PM	
Analyses	Result	PQL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8270C TCLP					Analyst	DAM
2-Methylphenol	ND	200	mg/L	1	9/19/2017 11:13:41 AM	33765
3+4-Methylphenol	ND	200	mg/L	1	9/19/2017 11:13:41 AM	
Phenol	ND	200	mg/L	1	9/19/2017 11:13:41 AM	
2,4-Dinitrotoluene	ND	0.13	mg/L	1	9/19/2017 11:13:41 AM	
Hexachlorobenzene	ND	0.13	mg/L	1	9/19/2017 11:13:41 AM	
Hexachlorobutadiene	ND	0.50	mg/L	1	9/19/2017 11:13:41 AM	
Hexachloroethane Nitrobenzene	ND ND	3.0 2.0	mg/L ma/L	1	9/19/2017 11:13:41 AM 9/19/2017 11:13:41 AM	
Pentachlorophenol	ND	2.0	mg/L	1	9/19/2017 11:13:41 AM 9/19/2017 11:13:41 AM	
Pyridine	ND	5.0	mg/L	1	9/19/2017 11:13:41 AM	
2.4.5-Trichlorophenol	ND	400	mg/L	1	9/19/2017 11:13:41 AM	
2.4.6-Trichlorophenol	ND	2.0	mg/L	1	9/19/2017 11:13:41 AM	
Cresols. Total	ND	200	mg/L	1	9/19/2017 11:13:41 AM	
Surr: 2-Fluorophenol	42.1	15-124	%Rec	1	9/19/2017 11:13:41 AM	
Surr: Phenol-d5	33.8	15-118	%Rec	1	9/19/2017 11:13:41 AM	33765
Surr: 2,4,6-Tribromophenol	79.6	15-148	%Rec	1	9/19/2017 11:13:41 AM	33765
Surr: Nitrobenzene-d5	72.2	40.6-124	%Rec	1	9/19/2017 11:13:41 AM	33765
Surr: 2-Fluorobiphenyl	69.0	35.7-128	%Rec	1	9/19/2017 11:13:41 AM	33765
Surr: 4-Terphenyl-d14	64.3	18.8-115	%Rec	1	9/19/2017 11:13:41 AM	33765
SPECIFIC GRAVITY					Analyst	JRR
Specific Gravity	1.012	0		1	9/7/2017 1:10:00 PM	R4548
EPA METHOD 300.0: ANIONS					Analyst	CJS
Fluoride	ND	0.50	mg/L	5	9/7/2017 5:14:31 PM	R4550
Chloride	8800	250	mg/L	500	9/21/2017 10:11:53 PM	A4582
Bromide	47	0.50	mg/L	5	9/7/2017 5:14:31 PM	R4550
Phosphorus, Orthophosphate (As P)	ND		H mg/L	5	9/7/2017 5:14:31 PM	R4550
Sulfate	200	10	mg/L	20	9/7/2017 5:26:56 PM	R4550
Nitrate+Nitrite as N	ND	10	mg/L	50	9/22/2017 9:03:19 PM	R4582
SM2510B: SPECIFIC CONDUCTANCE					Analyst:	
Conductivity	25000	25	µmhos/cm	5	9/13/2017 3:10:46 PM	R4564
SM2320B: ALKALINITY					Analyst:	JRR
Bicarbonate (As CaCO3)	1005	20.00	mg/L CaCO3	1	9/7/2017 6:09:28 PM	R4551
Carbonate (As CaCO3)	ND	2.000	mg/L CaCO3	1	9/7/2017 6:09:28 PM	R4551
Total Alkalinity (as CaCO3)	1005	20.00	mg/L CaCO3	1	9/7/2017 6:09:28 PM	R4551
SM2540C MOD: TOTAL DISSOLVED SO	DLIDS				Analyst	KS
Total Dissolved Solids	16300	200	*D mg/L	1	9/8/2017 3:03:00 PM	33751

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

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

Qualifiers:

B Analyte detected in the associated Method Blank E Value above quantitation range J Analyte detected below quantitation limits Page 1 of 13
 P Sample pH Not In Range
 RL Reporting Detection Limit
 W Sample container temperature is out of limit as specified

	Method 2580						
Anakte	Result	Qualifier	Dilution	Analysis date / time	Batch		
ORP	-330	<u>16</u>	1	09/13/2017 17:07	wG1020084		Τc
Wet Chemistry by	Method 4500	CN E-2011					Ss
	Result	Qualifier	ROL	Dilution	Analysis	Batch	0.0
Analyte	mgt		ngt		date / time		Cr
Reactive Cyanide	ND		0.125	25	09/15/2017 15:58	WG1320568	_
Wet Chemistry by	Method 9034-	9030B					Sr
	Result	Qualifier	RDL	Dilution	Analysis	Batch	1
Analyte	Result mg1		rg1		date / time	_	a
Analyte	Result			Dilution		Batch WG1018341	-
Analyte Reactive Sullide	Result mg1 0.885	Qualifier	rg1		date / time	_	GI
Analyte Reactive sunce Wet Chemistry by	Result mg1 0.885	Qualifier	rg1	1 Analysis	date / time	_	 GI
Analyte Reactive Suffice Well Chemistry by Analyte Consistivy by pH	Rewit mg1 0.885 Method 90400	<u>Qualifier</u>	ng1 0.0500	1	date / time OSIC8/2017 19:11 Batch	_	 -

Wet Chemistry by Method D93/1010A

ACCOUNT:

Hall Envir

intsi Anslysis Laboratory

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	deg F			date / time	
Flestipoint	ONF at 170		1	09/11/2017 22:00	W07018496

- B
 Analyte detected in the associated Method Blank

 E
 Value above quantitation range

 J
 Analyte detected below quantitation limits
 Page 2 of 13

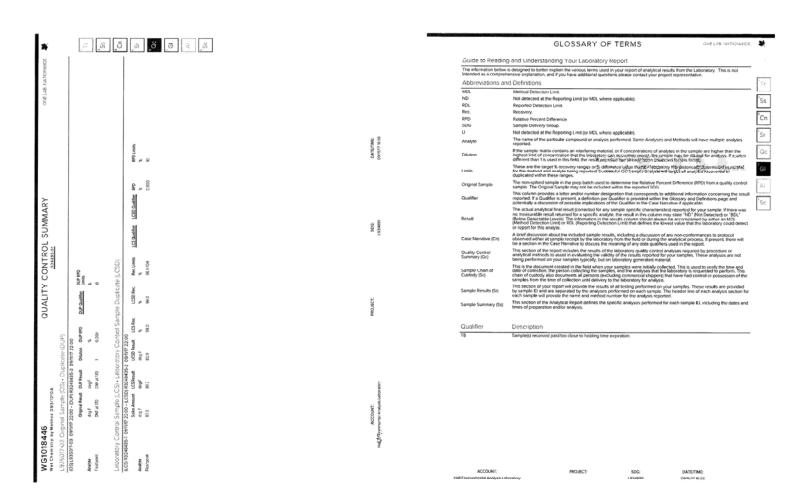
 P
 Sample pH Not In Range
- RL Reporting Detection Limit W Sample container temperature is out of limit as specified

PROJECT:

SDG:

DATE/TIME: 09/15/17 16:56

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Sea and the sea of the	CANTIME Constraine Beautimes 20	SMITTING Contraction
DUALITY CONTROL SUMMARY	Moteri see Lasen DUALITY CENTROL SUMMARY DUALITY CENTROL SUMMARY Interest I	800K
100	Manaken DUALITY CC AUALITY CC and and Manaka Manaka Manak Ma	MOLECT
WG1020034 DUALITY CON1 L950354-01 Onginal Sample (OS + Duplicate (DUP) 111 C01038554-01 Onginal Sample (OS + Duplicate (DUP) 111 C01038554-01 Onginal Sample (OS + Duplicate (DUP) 111 C01038554-01 Onginal Sample (OS + Duplicate (DUP) 111 C0103854-01 Onginal Sample (OS + Duplicate (DUP) 111 C010001 000 11 000 11 000 Laboratory Control Sample (ES + Duplicate (DUP) 11 000 11 00 0	ACCONTINUE	ACCONT:
Orie Luk har rowood ↓ S S S S S S S S S S S S S	ore that manformatic SS SS SS SS SS SS SS SS SS SS SS SS SS	in the second seco
series and series of the serie	dissormers and the second seco	AATETTING. DATETTING
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QC SUMMARY REPORT	WO#:	1709101
Hall Environmental Analysis Laboratory, Inc.		03-Oct-17

	gineering LLC Disposal 1								
Sample ID MB	SampType:	mblk	Tes	tCode: EPA I	Method	300.0: Anion:	5		
Client ID: PBW	Batch ID:	R45505	F	RunNo: 4550	5				
Prep Date:	Analysis Date:	9/7/2017	5	SeqNo: 1442	411	Units: mg/L			
Analyte	Result PC	L SPK value	SPK Ref Val	%REC Lo	wLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND 0.1								
Bromide	ND 0.1								
Phosphorus, Orthophosphate (As P	ND 0.5								
Sulfate	ND 0.5	DO							
Sample ID LCS	SampType:	lcs	Tes	tCode: EPA I	Method	300.0: Anion:	5		
Client ID: LCSW	Batch ID:	R45505	F	RunNo: 4550	5				
Prep Date:	Analysis Date:	9/7/2017	5	SeqNo: 1442	412	Units: mg/L			
Analyte	Result PG	L SPK value	SPK Ref Val	%REC Lo	wLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.545 0.1	0.5000	0	109	90	110			
Bromide	2.39 0.1		0	95.6	90	110			
Phosphorus, Orthophosphate (As P	4.64 0.5		0	92.8	90	110			
Sulfate	9.43 0.5	00 10.00	0	94.3	90	110			
Sample ID MB	SampType: mblk TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID:	A45821	F	RunNo: 4582	1				
Prep Date:	Analysis Date:	9/21/2017	5	SeqNo: 1456	045	Units: mg/L			
Analyte	Result PC	L SPK value	SPK Ref Val	%REC Lo	wLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND 0.	50							
Sample ID LCS	SampType:	lcs	Tes	tCode: EPA I	Method	300.0: Anion:	5		
Client ID: LCSW	Batch ID:	A45821	F	RunNo: 4582	1				
Prep Date:	Analysis Date:	9/21/2017	5	SeqNo: 1456	046	Units: mg/L			
Analyte	Result PC	L SPK value	SPK Ref Val	%REC Lo	wLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8 0.	50 5.000	0	96.5	90	110			
Sample ID MB	SampType:	mblk	Tes	tCode: EPA I	Method	300.0: Anion:	5		
Client ID: PBW	Batch ID:	R45820	F	RunNo: 4582	0				
Prep Date:	Analysis Date:	9/22/2017	5	SeqNo: 1456	612	Units: mg/L			
Analyte	Result PC	SPK value	SPK Ref Val	%REC Lo	wLimit	HighLimit	%RPD	RPDI imit	Qual
Nitrate+Nitrite as N		20	2. 141401 Vdi			. ayıncırınt	.010 0	. a ocnult	ajaran

Qualifiers:

- Value exceeds Maximum Contaminant Level.

- Value exceeds Maximum Contaminant Level.
 D Sample Dilated Due to Martin:
 Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 POL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix
 - RL
- Value above quantitation range Analyte detected below quantitation limits Sample pH Not In Range Reporting Detection Limit

W Sample container temperature is out of limit as specified

B Analyte detected in the associated Method Blank

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QC SUMMARY REPORT Hall Environmental Analysis Lab

× ~	
Hall	Environmental Analysis Laboratory, Inc.

	gineering LLC Jisposal 1								
Sample ID LCS	SampType: Ics		Tes	tCode: Ef	PA Method	300.0: Anion:	5		
Client ID: LCSW	Batch ID: R4	Batch ID: R45820 RunNo: 45820							
Prep Date:	Analysis Date: 9/2	22/2017	S	eqNo: 1	456613	Units: mg/L			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.5 0.20	3.500	0	98.9	90	110			

WO#:

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1709101

03-Oct-17

Qualifiers: Value exceeds Maximum Contaminant Level.

Value exceeds Maximum Contaminant Level.
 D Sample Duted Due to Matrix
 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

E

- B Analyte detected in the associated Method Blank Value above quantitation range Analyte detected below quantitation limits
- Sample pH Not In Range Reporting Detection Limit
 - RL
 - Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

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WO#:

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1709101

03-Oct-17

1709101

03-Oct-17

	Engineering L Disposal 1	LC								
Sample ID 100ng Ics	SampT	ype: LC	s	TestCode: TCLP Volatiles by 8260B						
Client ID: LCSW	Batch	D: T4	5499	F	RunNo: 4	5499				
Prep Date:	Analysis D)ate: 9/	7/2017		SeqNo: 1		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.021	0.010	0.02000	0	103	70	130			
1,1-Dichloroethene	0.022	0.010	0.02000	0	108	70	130			
Trichloroethene (TCE)	0.021	0.010	0.02000	0	103	70	130			
Chlorobenzene	0.020	0.010	0.02000	0	99.5	70	130			
Surr: 1,2-Dichloroethane-d4	0.010		0.01000		101	70	130			
Surr: 4-Bromofluorobenzene	0.0097		0.01000		96.7	70	130			
Surr: Dibromofluoromethane	0.010		0.01000		99.8	70	130			
Surr: Toluene-d8	0.0094		0.01000		94.3	70	130			
Sample ID rb	SampT	ype: ME	BLK	TestCode: TCLP Volatiles by 8260B						
Client ID: PBW	Batch	h ID: T4	5499	F	RunNo: 4	5499				
Prep Date:	Analysis D)ate: 9/	7/2017	5	SeqNo: 1	442203	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								
Hexachlorobutadiene	ND	0.50								
Tetrachloroethene (PCE)	ND	0.70								
Trichloroethene (TCE)	ND	0.50								
Vinyl chloride	ND	0.20								
Chlorobenzene	ND	100								
Surr: 1,2-Dichloroethane-d4	0.0099		0.01000		98.9	70	130			
Surr: 4-Bromofluorobenzene	0.0096		0.01000		95.6	70	130			
Surr: Dibromofluoromethane	0.010		0.01000		99.9	70	130			
Surr: Toluene-d8	0.0093		0.01000		93.5	70	130			

Hall Environmental Analysis Laboratory, Inc.

Client: Rule Eng Project: Sunco Di	ineering l isposal 1	LLC								
Sample ID 1709101-001bms	Samp	Type: MS	;	Tes	tCode: E	PA Method	8270C TCLP			
Client ID: S-5 (9/1/17)	Bate	h ID: 33	765	F	RunNo: 4	5731				
Prep Date: 9/8/2017	Analysis	Date: 9/	19/2017	s	eqNo: 1	452210	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	0.059	0.0010	0.1000	0	59.0	23.9	129			
3+4-Methylphenol	0.12	0.0010	0.2000	0	61.3	15	167			
2,4-Dinitrotoluene	0.052	0.0010	0.1000	0	51.6	15	147			
Hexachlorobenzene	0.061	0.0010	0.1000	0	61.0	41.4	136			
Hexachlorobutadiene	0.052	0.0010	0.1000	0	52.1	16.2	134			
Hexachloroethane	0.044	0.0010	0.1000	0	44.3	20.6	124			
Nitrobenzene	0.064	0.0010	0.1000	0	64.1	39.5	134			
Pentachlorophenol	0.043	0.0010	0.1000	0	42.7	15	137			
Pyridine	0.030	0.0010	0.1000	0	30.0	15	129			
2,4,5-Trichlorophenol	0.072	0.0010	0.1000	0	71.6	15	158			
2,4,6-Trichlorophenol	0.060	0.0010	0.1000	0	60.5	15	153			
Cresols, Total	0.18	0.0010	0.3000	0	60.6	10.6	179			
Surr: 2-Fluorophenol	0.083		0.2000		41.5	15	124			
Surr: Phenol-d5	0.069		0.2000		34.3	15	118			
Surr: 2,4,6-Tribromophenol	0.12		0.2000		61.9	15	148			
Surr: Nitrobenzene-d5	0.071		0.1000		71.3	40.6	124			
Surr: 2-Fluorobiphenyl	0.061		0.1000		61.3	35.7	128			
Surr: 2-Fluorobiphenyl Surr: 4-Terphenyl-d14	0.061 0.056		0.1000 0.1000		61.3 56.1	35.7 18.8	128 115			
	0.056	Type: MS	0.1000	Tes	56.1	18.8				
Surr: 4-Terphenyl-d14	0.056	Type: MS	0.1000		56.1	18.8 PA Method	115			
Surr: 4-Terphenyl-d14 Sample ID 1709101-001bms	0.056 d Samp Bate		0.1000 D	F	56.1 ICode: E	18.8 PA Method 5731	115			
Surr: 4-Terphenyl-d14 Sample ID 1709101-001bms Client ID: S-5 (9/1/17)	0.056 d Samp Bate Analysis Result	:h ID: 33 Date: 9/ PQL	0.1000 765 19/2017 SPK value	F S SPK Ref Val	56.1 ICode: E RunNo: 4	18.8 PA Method 5731	115 8270C TCLP	%RPD	RPDLimit	Qual
Sur: 4-Terphenyl-d14 Sample ID 1709101-001bmso Client ID: 5-5 (9/1/17) Prep Date: 9/8/2017 Analyte 2-Methylphenol	0.056 d Samp Bate Analysis	ch ID: 33 Date: 9/ PQL 0.0010	0.1000 5D 765 19/2017 SPK value 0.1000	F S SPK Ref Val 0	56.1 ICode: E RunNo: 4 GeqNo: 1 %REC 62.6	18.8 PA Method 5731 452211 LowLimit 23.9	115 8270C TCLP Units: mg/L HighLimit 129	5.95	20	Qual
Surr: 4-Terphenyl-d14 Sample ID 1709101-001bmsd Client ID: S-5 (9/1/17) Prep Date: 9/8/2017 Analyte 2.Methylphenol 3-4.Methylphenol 3-4.Methylphenol	0.056 Bate Analysis Result 0.063 0.13	ch ID: 33 Date: 9/ PQL 0.0010 0.0010	0.1000 5D 765 19/2017 SPK value 0.1000 0.2000	F SPK Ref Val 0 0	56.1 tCode: E RunNo: 4 SeqNo: 1 %REC 62.6 66.4	18.8 PA Method 5731 452211 LowLimit 23.9 15	115 8270C TCLP Units: mg/L HighLimit 129 167	5.95 7.89	20 20	Qual
Sur: 4-Terphanyl-d14 Sample ID 1709101-001bmsk Client ID: S-5 (9/1/17) Prep Date: 9/8/2017 Analyte 2.Methylphenol 3.4-Methylphenol 4.4-Dintroblume	0.056 Bate Analysis Result 0.063 0.13 0.058	ch ID: 33 Date: 9/ PQL 0.0010 0.0010 0.0010	0.1000 5D 765 19/2017 SPK value 0.1000 0.2000 0.1000	F S SPK Ref Val 0 0 0	56.1 tCode: E RunNo: 4 SeqNo: 1 %REC 62.6 66.4 58.5	18.8 PA Method 5731 452211 LowLimit 23.9 15 15	115 8270C TCLP Units: mg/L HighLimit 129 167 147	5.95 7.89 12.5	20 20 23.2	Qual
Sur: 4-Terphenyl-d14 Sample ID 1709101-001bmss Client ID: S-5 (9/1/17) Prep Date: 9/8/2017 Analyte 24-Methylphenol 34-Methylphenol 2,4-Dinitrobluene Headhirobenzene	0.056 Bate Analysis Result 0.063 0.13 0.058 0.070	ch ID: 33 Date: 9/ PQL 0.0010 0.0010 0.0010 0.0010	0.1000 5D 765 19/2017 SPK value 0.1000 0.2000 0.1000 0.1000	F S SPK Ref Val 0 0 0 0 0	56.1 ICode: E RunNo: 4 SeqNo: 1 %REC 62.6 66.4 58.5 70.1	18.8 PA Method 5731 452211 LowLimit 23.9 15 15 15 41.4	115 8270C TCLP Units: mg/L HighLimit 129 167 147 136	5.95 7.89 12.5 13.8	20 20 23.2 20	Qual
Sur: 4-Tephenyl-d14 Sample ID 1709101-001bmse Client ID: 8-5 (9/1/17) Prep Date: 9/8/2017 Analyte 2.448/hybrend 2.448/hybrend 2.448/hybrend 2.4-Methybrend 2.4-141/kadene Hexachirobularene Hexachirobularene	0.056 Bate Analysis Result 0.063 0.13 0.058 0.070 0.061	ch ID: 33 Date: 9/ PQL 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.1000 5D 765 19/2017 SPK value 0.1000 0.2000 0.1000 0.1000 0.1000	F SPK Ref Val 0 0 0 0 0	56.1 tCode: E RunNo: 4 SeqNo: 1 %REC 62.6 66.4 58.5 70.1 60.8	18.8 PA Method 5731 452211 LowLimit 23.9 15 15 15 41.4 16.2	115 8270C TCLP Units: mg/L HighLimit 129 167 147 136 134	5.95 7.89 12.5 13.8 15.4	20 20 23.2 20 20	Qual
Sur: 4-Terphanyl-d14 Sample ID 1709101-001bms/ Client ID: S-6 (9/1/17) Prep Date: 9/8/2017 Analyte 24.46ttyphenol 3:4-Methyphenol 4-24.Dinitroblume Hexablrobenzane Hexablrobenzane Hexablrobenzane Hexablrobenzane	0.056 d Samp Bate Analysis Result 0.063 0.13 0.058 0.070 0.061 0.049	ch ID: 33 Date: 9/ PQL 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.1000 765 19/2017 SPK value 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000	F S SPK Ref Val 0 0 0 0 0 0 0	56.1 tCode: E RunNo: 4 SeqNo: 1 %REC 62.6 66.4 58.5 70.1 60.8 49.2	18.8 PA Method 5731 452211 LowLimit 23.9 15 15 15 41.4 16.2 20.6	115 8270C TCLP Units: mg/L HighLimit 129 167 147 136 134 124	5.95 7.89 12.5 13.8 15.4 10.4	20 20 23.2 20 20 31.3	Qual
<u>Sur:</u> 4-Terphanyl-d14 Sample ID 1709101-001bmss Client ID: S-3 (91/17) Perp Date: 918/2017 Analyte 2-Mathylphanol 2-Mathylphanol 2-Mathylphanol -exachlorobusines Headhlorobusines Headhlorobusines	0.056 Bate Analysis Result 0.063 0.058 0.070 0.061 0.049 0.076	2:h ID: 33 Date: 9/ PQL 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.1000 765 19/2017 SPK value 0.1000 0.2000 0.1000 0.1000 0.1000 0.1000 0.1000	F S SPK Ref Val 0 0 0 0 0 0 0 0 0	56.1 ICode: E RunNo: 4 SeqNo: 1 %REC 62.6 66.4 58.5 70.1 60.8 49.2 75.9	18.8 PA Method 5731 452211 23.9 15 15 41.4 16.2 20.6 39.5	115 8270C TCLP Units: mg/L HighLimit 129 167 147 136 134 124 134	5.95 7.89 12.5 13.8 15.4 10.4 16.9	20 20 23.2 20 20 31.3 26.6	Qual
Sur: 4-Tephanyl-d14 Sample ID 1709101-001bmsi Client ID: 8-5 (9/1/17) Prep Date: 9/8/2017 Analyte 2Methylphenol 4-4 Methylphenol 4-4 Adehylphenol 4-4 Adehylphenol 4-adahoroehrane 4-adahoroehrane 4-adahoroehrane 4-adahoroehrane 4-adahoroehrane 4-adahoroehrane 4-adahoroehrane	0.056 Bate Analysis Result 0.063 0.13 0.058 0.070 0.061 0.049 0.076 0.042	2h ID: 33 Date: 9/ PQL 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.1000 D765 19/2017 SPK value 0.1000 0.2000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000	5 SPK Ref Val 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	56.1 ICode: E RunNo: 4 SeqNo: 1 %REC 62.6 66.4 58.5 70.1 60.8 49.2 75.9 42.3	18.8 PA Method 5731 452211 23.9 15 15 41.4 16.2 20.6 39.5 15	115 8270C TCLP Units: mg/L HighLimit 129 167 147 136 134 124 134 134 137	5.95 7.89 12.5 13.8 15.4 10.4 16.9 1.13	20 20 23.2 20 20 31.3 26.6 27.9	
Surr. 4-Terphanyl-d1 Sample ID 1709101-001bmss Client ID 7509101-001bmss Client ID 5-5 (91/17) Prep Date: 9/92017 Analyte 2-Methythand 2-4Meth	0.056 Samp Bate Analysis Result 0.063 0.13 0.058 0.070 0.061 0.049 0.076 0.042 0.010	2h ID: 33 Date: 9/ PQL 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.1000 iD 765 SPK value 0.1000 0.2000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000	5 5 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	56.1 ICode: E RunNo: 4 SeqNo: 1 %REC 62.6 66.4 58.5 70.1 60.8 49.2 75.9 42.3 10.2	18.8 PA Method 5731 452211 23.9 15 15 41.4 16.2 20.6 39.5 15 15	115 8270C TCLP Units: mg/L HighLimit 129 167 147 136 134 124 134 124 134 124 137 129	5.95 7.89 12.5 13.8 15.4 10.4 16.9 1.13 98.3	20 23.2 20 31.3 26.6 27.9 47.4	Qual
Sur: 4-Terphanyl-d14 Sample ID 1709101-001bmss Client ID: 8-5 (9/1/17) Prep Date: 9/8/2017 Analyte 24.0http:/phrand 24.0http:	0.056 Samp Batt Analysis Result 0.063 0.058 0.070 0.061 0.049 0.076 0.042 0.070 0.061	2010 2010 2010 2010 2010 2010 2010 2010	0.1000 FD F65 19/2017 SPK value 0.1000 0.2000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000	F S SPK Ref Val 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	56.1 ICode: E RunNo: 4 SeqNo: 1 %REC 62.6 66.4 58.5 70.1 60.8 49.2 75.9 42.3 10.2 80.3	18.8 PA Method 5731 452211 23.9 15 15 41.4 16.2 20.6 39.5 15 15 15 15	115 8270C TCLP HighLimit 127 136 134 134 134 137 129 158	5.95 7.89 12.5 13.8 15.4 10.4 16.9 1.13 98.3 11.4	20 20 23.2 20 31.3 26.6 27.9 47.4 36.9	
Surr 4 Terphanyl 41 Sampele 10 17039101-001bmss Client 10: S-5 (91/17) Prop Date: 9/9/2017 Analyte 2/Admtyhand 4/Adm	0.056 Samp Bate Analysis Result 0.063 0.13 0.058 0.070 0.061 0.049 0.076 0.042 0.010 0.080 0.071	ID: 33: Date: 9/ PQL 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.1000 iD 765 19/2017 SPK value 0.1000 0.2000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000	F S SPK Ref Val 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	56.1 Code: E RunNo: 4 SeqNo: 1 %REC 62.6 66.4 58.5 70.1 60.8 49.2 75.9 42.3 10.2 80.3 71.3	18.8 PA Method 5731 452211 LowLimit 23.9 15 15 41.4 16.2 20.6 39.5 15 15 15 15 15	115 8270C TCLP Units: mg/L 129 167 136 134 134 134 134 134 134 134 135 153	5.95 7.89 12.5 13.8 15.4 10.4 16.9 1.13 98.3 11.4 16.4	20 20 23.2 20 31.3 26.6 27.9 47.4 36.9 37.2	
Sur: 4-Tephan/414 Sample ID 1709101-001bmsi Client ID: 5-6 (91/17) Prop Data: 9/8/2017 Analyte 2-Methylphand 3-4-Methylphand 2-4-Onitobuene Hexadirotobatine Hexadirotobatine Hexadirotobatine Pertabiloophand 2.4.5 Trichbrophand	0.056 a Samp Bate Analysis Result 0.063 0.058 0.070 0.061 0.042 0.010 0.042 0.010 0.042 0.010 0.061 0.042 0.010 0.061 0.042 0.010 0.056 0.042 0.010 0.056 0.042 0.010 0.056 0.042 0.010 0.056 0.042 0.010 0.056 0.042 0.010 0.056 0.042 0.010 0.056 0.042 0.010 0.056 0.042 0.010 0.056 0.042 0.026 0.042 0.026 0.042 0.042 0.042 0.042 0.042 0.056 0.042	2010 2010 2010 2010 2010 2010 2010 2010	0.1000 iD 765 19/2017 SPK value 0.10000 0.10000 0.10000 0.10000 0.10000 0.10000 0.10000 0.10000 0.10000 0.10000 0.100000 0.100000 0.100000 0.10000000000	F S SPK Ref Val 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	56.1 tCode: E RunNo: 4 SeqNo: 1 %REC 62.6 66.4 58.5 70.1 60.8 49.2 75.9 42.3 10.2 80.3 71.3 65.1	18.8 PA Method 5731 452211 23.9 15 15 41.4 416.2 20.6 39.5 15 15 15 15 15 15 15 15	115 8270C TCLP Units: mg/L HighLimit 129 167 147 136 134 134 134 134 134 135 153 179	5.95 7.89 12.5 13.8 15.4 10.4 16.9 1.13 98.3 11.4 16.4 7.27	20 23.2 20 31.3 26.6 27.9 47.4 36.9 37.2 27.4	
Surr 4-Terphenyl-414 Sample ID 7709101-001bmss Client ID: S-5 (91/17) Prep Date: 9/8/2017 Analyte 2/40110/1014 2-40110/bannel 4/40110/bannel 2-40110/bannel 4/40110/bannel 4-40110/banne Hexaltroohrane Hexaltroohrane Periodine Printion 2.4.5.116/konghenol 2.4.5.116/konghenol 2.4.5.116/konghenol Z4.6.116/konghenol Z4.5.116/konghenol Direxio, Total Sur; 2.PLucophanol	0.056 Samp Bate Analysis Result 0.063 0.03 0.058 0.070 0.061 0.042 0.076 0.042 0.010 0.070 0.076 0.042 0.010 0.080 0.070	ID: 33: Date: 9/ PQL 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.1000 iD 765 19/2017 SPK value 0.1000 0.2000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.2000	F S SPK Ref Val 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	56.1 tCode: E RunNo: 4 SeqNo: 1 %REC 62.6 66.4 58.5 70.1 60.8 49.2 75.9 42.3 10.2 80.3 71.3 65.1 45.4	18.8 PA Method 5731 452211 23.9 15 15 41.4 16.2 20.6 39.5 15 15 15 15 15 15 10.6 15	115 8270C TCLP Units: mg/L HighLimit 129 167 147 136 134 134 134 137 129 158 153 179 124	5.95 7.89 12.5 13.8 15.4 10.4 16.9 1.13 98.3 11.4 16.4 7.27 0	20 23.2 20 31.3 26.6 27.9 47.4 36.9 37.2 27.4 0	
Sur: 4-Tephan/414 Sample ID 1709101-001bmsi Client ID: 5-6 (91/17) Prop Data: 9/8/2017 Analyte 2-Methylphand 3-4-Methylphand 2-4-Onitobuene Hexadirotobatine Hexadirotobatine Hexadirotobatine Pertabiloophand 2.4.5 Trichbrophand	0.056 a Samp Bate Analysis Result 0.063 0.058 0.070 0.061 0.042 0.010 0.042 0.010 0.042 0.010 0.061 0.042 0.010 0.061 0.042 0.010 0.056 0.042 0.010 0.056 0.042 0.010 0.056 0.042 0.010 0.056 0.042 0.010 0.056 0.042 0.010 0.056 0.042 0.010 0.056 0.042 0.010 0.056 0.042 0.010 0.056 0.042 0.026 0.042 0.026 0.042 0.042 0.042 0.042 0.042 0.056 0.042	ID: 33: Date: 9/ PQL 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.1000 iD 765 19/2017 SPK value 0.10000 0.10000 0.10000 0.10000 0.10000 0.10000 0.10000 0.10000 0.10000 0.10000 0.100000 0.100000 0.100000 0.10000000000	F S SPK Ref Val 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	56.1 tCode: E RunNo: 4 SeqNo: 1 %REC 62.6 66.4 58.5 70.1 60.8 49.2 75.9 42.3 10.2 80.3 71.3 65.1	18.8 PA Method 5731 452211 23.9 15 15 41.4 416.2 20.6 39.5 15 15 15 15 15 15 15 15	115 8270C TCLP Units: mg/L HighLimit 129 167 147 136 134 134 134 134 134 135 153 179	5.95 7.89 12.5 13.8 15.4 10.4 16.9 1.13 98.3 11.4 16.4 7.27	20 23.2 20 31.3 26.6 27.9 47.4 36.9 37.2 27.4	

Client:

Project:

Client ID: S-5 (9/1/17)

Prep Date: 9/8/2017

Analyte Surr: Nitrobenzene-d5 Surr: 2-Fluorobiphenyl Surr: 4-Terphenyl-d14

 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

0.064

Batch ID: 33765

Analysis Date: 9/19/2017

0.1000

Rule Engineering LLC

Sunco Disposal 1 Sample ID 1709101-001bmsd SampType: MSD

- B Analyte detected in the associated Method Blank
 E Value above quantitation range Analyté detected in the associated Method E
 Value above quantitation range
 J Analyté detected below quantitation limits
 P Sample pH Not In Range
 R. Reporting Detection Limit
 W Sample container temperature is out of limit
- - ure is out of limit as specified

TestCode: EPA Method 8270C TCLP

115

0

RunNo: 45731 SeqNo: 1452211 Units: mg/L

> 64.2 18.8

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

 0.081
 0.1000
 81.4
 40.6
 124
 0
 0

 0.073
 0.1000
 72.6
 35.7
 128
 0
 0

 Qualifiers:
 •
 Value exceeds Maximum Contaminant Level.

 D
 Sample Diluted Due to Matrix
 •

 Holding times for preparation or analysis exceeded
 ND
 Net Detected at the Reporting Limit

 Value exceeds at the Reporting Limit
 •
 •
 •
 •

PQL Practical Quantative 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

Page 6 of 13

WO#:

Page 8 of 13

1709101

03-Oct-17

RL Reporting Detection Limit W Sample container temperat

ature is out of limit as specified

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Rule Eng Sunco Di	ineering L sposal 1	LC								
Sample ID	MB-33892	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	7470: Mercu	У		
Client ID:	PBW	Batcl	h ID: 33	892	F	RunNo: 4	5662				
Prep Date:	9/15/2017	Analysis E	Date: 9/	15/2017	5	SeqNo: 1	449239	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury		ND	0.00020								
Sample ID	LCS-33892	SampT	Type: LC	S	Tes	tCode: El	PA Method	7470: Mercui	у		
Client ID:	LCSW	Batcl	h ID: 33	892	F	RunNo: 4	5662				
Prep Date:	9/15/2017	Analysis D	Date: 9/	15/2017	5	SeqNo: 1	449240	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	99.1	80	120			
Sample ID	1709101-001DMS	SampT	ype: MS	3	Tes	tCode: El	PA Method	7470: Mercui	у		
Client ID:	S-5 (9/1/17)	Batcl	h ID: 33	892	F	RunNo: 4	5662				
Prep Date:	9/15/2017	Analysis D	Date: 9/	15/2017	5	SeqNo: 1	449249	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury		0.0039	0.0010	0.005000	0.0001995	73.2	75	125			S
Sample ID	1709101-001DMS) Samp1	Type: MS	D	Tes	tCode: El	PA Method	7470: Mercui	γ		
Client ID:	S-5 (9/1/17)	Batcl	h ID: 33	892	F	RunNo: 4	5662		-		
Prep Date:	9/15/2017	Analysis D)ate: 9/	15/2017		SeqNo: 1	449250	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury		0.0039	0.0010	0.005000	0.0001995	74.0	75	125	1.05	20	S

Qualifiers:

- Value exceeds Maximum Contaminant Level.

- Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Mattrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 Post-Cale Quantitative Limit
 % Recovery outside of range due to dilution or matrix
- E J
- RL

Analyte detected in the associated wethod is Value above quantitation range Analyte detected below quantitation limits Sample pH Not In Range Reporting Detection Limit

B Analyte detected in the associated Method Blank

W Sample container temperature is out of limit as specified

- - - RL
- Analyte detected below quantitation range Analyte detected below quantitation limits Sample pH Not In Range Reporting Detection Limit
 - W Sample container temperature is out of limit as specified

B Analyte detected in the associated Method Blank

- Qualifiers: Value exceeds Maximum Contaminant Level.
- Value exceeds Maximum Contaminani Levis.
 D Sample Diluted Due to Matrix
 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

E

moroury		0.0000	0.00020	0.000000	0	00.1	00	120			
Sample ID	1709101-001DMS	Samp	Type: MS	6	Tes	Code: E	PA Method	7470: Mercur	у		
Client ID:	S-5 (9/1/17)	Bato	:h ID: 33	892	F	tunNo: 4	5662				
Prep Date:	9/15/2017	Analysis [Date: 9/	15/2017	S	eqNo: 1	449249	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury		0.0039	0.0010	0.005000	0.0001995	73.2	75	125			S
Sample ID	1709101-001DMS	D Samp	Type: MS	SD	Tes	Code: E	PA Method	7470: Mercur	у		
Client ID:	S-5 (9/1/17)	Bato	:h ID: 33	892	F	tunNo: 4	5662				
Prep Date:	9/15/2017	Analysis [Date: 9/	15/2017	S	eqNo: 1	449250	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Margaret		0.0020	0.0010	0.005000	0.0001005	74.0	75	105	1 OF	20	c

tol Anolysi Lab

WO#: 1709101

Client:	Rule Eng	ineering l	LLC								
Project:	Sunco Di	sposal 1									
Sample ID	MB-34004	Samp	Туре: МЕ	3LK	Tes	tCode: E	PA 6010B: "	Total Recover	able Meta	als	
	PBW		:h ID: 34		F	tunNo: 4	5798				
Prep Date:	9/21/2017	Analysis				eqNo: 1		Units: mg/L			
								-			
Analyte Arsenic		Result ND	PQL 0.020	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium		ND	0.020								
Cadmium		ND	0.0020								
Calcium		ND	1.0								
Jaicium Chromium		ND	0.0060								
.ead		ND	0.0050								
Aagnesium		ND ND	1.0 1.0								
Potassium Selenium		ND ND	0.050								
Silver		ND	0.0050								
Sodium		ND	1.0								
Sample ID	LCS-34004	Samp	Type: LC	s	Tes	tCode: E	PA 6010B: "	Total Recover	able Meta	als	
Client ID:	LCSW	Bate	h ID: 34	004	F	RunNo: 4	5798				
Prep Date:	9/21/2017	Analysis	Date: 9/	22/2017	S	eqNo: 1	455671	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic		0.52	0.020	0.5000	0	104	80	120			
Barium		0.49	0.020	0.5000	0	98.4	80	120			
Cadmium		0.48	0.0020	0.5000	0	95.9	80	120			
Calcium		50	1.0	50.00	0	101	80	120			
Chromium		0.49	0.0060	0.5000	0	98.0	80	120			
ead		0.48	0.0050	0.5000	0	95.1	80	120			
Aagnesium		50	1.0	50.00	0	99.2	80	120			
otassium		48	1.0	50.00	0	95.4	80	120			
Selenium		0.47	0.050	0.5000	0	94.6	80	120			
Silver		0.097	0.0050	0.1000	0	97.5	80	120			
Sodium		49	1.0	50.00	0	97.2	80	120			
Sample ID	1709101-001DMS	Samp	Type: MS	3	Tes	tCode: E	PA 6010B: "	Total Recover	able Meta	als	
Client ID:	S-5 (9/1/17)	Bate	:h ID: 34	004	F	tunNo: 4	5960				
Prep Date:	9/21/2017	Analysis	Date: 9/	28/2017	S	eqNo: 1	461674	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic		0.62	0.020	0.5000	0.1127	102	75	125			
Cadmium		0.50	0.0020	0.5000	0	99.9	75	125			
Chromium		0.49	0.0060	0.5000	0.01869	93.8	75	125			
.ead		0.45	0.0050	0.5000	0	89.8	75	125			
Selenium		0.23	0.050	0.5000	0	46.8	75	125			S
Silver		0.11	0.0050	0.1000	0	110	75	125			

- 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
- J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Detection Limit
 W Sample container temperature is out of limit Page 9 of 13

ure is out of limit as specified

QC SUMMARY REPORT

Prep Date:

Analyte

Client ID: S-5 (9/1/17)

Hall Environmental Analysis Laboratory, Inc.

Batch ID: 34004

Analysis Date: 9/28/2017

Client: Project:	Rule Engi Sunco Dis		LLC								
Sample ID	1709101-001DMSE) Samp	Type: MS	SD	Tes	tCode: El	PA 6010B:	Total Recover	able Meta	als	
Client ID:	S-5 (9/1/17)	Bato	h ID: 34	004	F	RunNo: 4	5960				
Prep Date:	9/21/2017	Analysis I	Date: 9/	28/2017	s	SeqNo: 1	461678	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic		0.59	0.020	0.5000	0	118	75	125	4.96	20	
Cadmium		0.46	0.0020	0.5000	0	91.2	75	125	9.07	20	
Chromium		0.45	0.0060	0.5000	0.01869	85.6	75	125	8.78	20	
Lead		0.41	0.0050	0.5000	0	82.5	75	125	8.50	20	
Selenium		0.20	0.050	0.5000	0	40.4	75	125	14.7	20	S
Silver		0.10	0.0050	0.1000	0	101	75	125	8.61	20	
Sample ID	1709101-001DPS	Samp	Type: PS	;	Tes	tCode: El	PA 6010B:	Fotal Recover	able Meta	als	

RunNo: 45960

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

 0.41
 0.050
 0.5000
 0
 82.8
 80
 120
 RPDLimit

SeqNo: 1461679 Units: mg/L

Qualifi	iers:		

 Qualifiers:

 *
 Value exceeds Maximum Contaminant Level.

 D
 Sample Diluted Due to Matrix

 H
 Holding times for preparation or analysis exceeded

 ND
 Nex Detected at the Reporting Limit

 *
 To maintain Constrainty

- 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
- Page 10 of 13
- E Value above quantitation range J Analyte detected below quantitation limits P Sample pH Not In Range
- RL Reporting Detection Limit W Sample container temperat
- rature is out of limit as specified

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

man Env	nonmentar rinarysis Eaboratory, me.
Client:	Pula Engineering LLC

Project:	Sunco Dis	0	L								
Sample ID	1709101-001CDUP	SampT	/pe: DL	JP	Tes	tCode: S	pecific Gra	vity			
Client ID:	S-5 (9/1/17)	Batch	ID: R4	15481	F	RunNo: 4	5481				
Prep Date:		Analysis D	ate: 9/	7/2017	8	eqNo: 1	441598	Units:			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Specific Gravity	1	1.008	0						0.337	20	

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Rule Engineering LLC

Client:

03-Oct-17

WO#:

1709101

Project: Sun	co Disposal 1				
Sample ID mb-1	SampType: MBLK	TestCode: SM2320B: A	Ikalinity		
Client ID: PBW	Batch ID: R45511	RunNo: 45511			
Prep Date:	Analysis Date: 9/7/2017	SeqNo: 1442538	Units: mg/L CaCO3		
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual	
Total Alkalinity (as CaCO3)	ND 20.00				
Sample ID Ics-1	SampType: LCS	TestCode: SM2320B: A	Ikalinity		_
Client ID: LCSW	Batch ID: R45511	RunNo: 45511			
Prep Date:	Analysis Date: 9/7/2017	SeqNo: 1442539	Units: mg/L CaCO3		
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual	
Total Alkalinity (as CaCO3)	79.12 20.00 80.00	0 98.9 90	110		

Qualifiers:

- Value exceeds Maximum Contaminant Level. Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Mattrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 Post-Call Quantitative Limit
 % Recovery outside of range due to dilution or matrix

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 Detection Limit
 W Sample container temperature is out of limit as specified

Page 11 of 13

B Analyte detected in the associated Method Blank

Qualifiers: Value exceeds Maximum Contaminant Level.

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

B Analyte detected in the associated Method Blank Analyte detected in the associated weinour Value above quantitation range Analyte detected below quantitation limits Sample pH Not In Range Reporting Detection Limit E

RL

- Page 12 of 13
- W Sample container temperature is out of limit as specified

Qua

WO#:

1709101

03-Oct-17

Hall Environmental Analysis Laboratory, Inc.

	Engineering LLC Disposal 1			
Sample ID MB-33751	SampType: MBLK		OD: Total Dissolved So	lids
Client ID: PBW	Batch ID: 33751	RunNo: 45510		
Prep Date: 9/7/2017	Analysis Date: 9/8/2017	SeqNo: 1442510	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-33751	SampType: LCS	TestCode: SM2540C M	OD: Total Dissolved So	lids
Client ID: LCSW	Batch ID: 33751	RunNo: 45510		
Prep Date: 9/7/2017	Analysis Date: 9/8/2017	SeqNo: 1442511	Units: mg/L	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Fotal Dissolved Solids	1010 20.0 1000	0 101 80	120	

WO#:

Page 13 of 13

1709101

03-Oct-17

Client Name!			hquerque, NM 87 (FAX: 303-345-4 denveronmental i	107	RepINO: 1			
	RULE ENGINEERING LL	Work Order Number	1709101		RepiND: 1			
Repowed By:	Anriy Frequien	9/2/2017 12:50:00 PM		and				
Completed By:	Ashley Gallegos	9/6/2017 1:04:14 PM		A				
Reviewent Ry	ENH	9/6/17		Ŵ				
Chain of Cus	tody							
1. Custody sea	Is intact on sample bottles?		Yes	No 🗔	Not Present 🗹			
2. Is Chain of C	Custody complete?		Yes 🗹	No 🗌	Not Present			
3. How was the	sample delivered?		Courier					
Log In								
4. Wae an alter	mpt made to cool the sample	ċs?	Yes 🗹	No	NA 🗔			
5. Were all sam	nples received at a temperat	ure of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗔			
6. Samplo(s) in	rpropor container(a)?		Yes 🗹	No 🗖				
7 Sufficient aar	mple volume for indicated iss	st(s)?	Yes 🖌	No 🗌				
8. Are samples	(except VOA and ONG) proj	peny preserved?	Yos 🗹	No				
9. Was preserve	ative added to bottles?		Yes 🗌	No 🗹	NA 🛄			
10.VOA vials ha	ve zero hendspace?		Yes 🔄	No 🗔	No VOA Visla			
11. Were any sa	imple containers received bri	cken?	Yes 🗆	No 🗹				
12. Does paperw	vork match bettie jabels?		Yes M	No	for preserved bottles checked 1; 2			
	sancies on chain of custody)			-	Con 12 uniess note			
	correctly identified on Cham		Yes M	NO	Adjusted? 17(2			
	at analyses were requested? Ing times able to be met?		You M	No L	Checked by: Sy'C			
	customer for authorization 3		Yes 🗹	No 🛄	near of SKE			
Special Handl	ling (if applicable)							
16 Was client no	of all discrepancies will	In this order?	Yes 🗔	No 🗌	NA M			
Person	Notified	Date						
By Who Regard	and the second sec	Via: [_ eMail _ Pi	none 🗌 Fax	In Person			

- Qualifiers:

 * Value exceeds Maximum Contaminant Level.

 D Sample Diluted Due to Matrix

 Holding times for preparation or analysis exceeded

 ND Not Detected at the Reperting Limit

 PQL
 Practical Quanitative Limit

 S
 % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 Reporting Detection Limit
 Sample container temperature is out of limit as specified

ant o	Inaliti	-ot-Ci	Chain-of-Custody Record	Turn-Aroune Time:	ime:			1	HA	E	NN	IRC	N	HALL ENVIRONMENTAL	AL
	m	Ener	Kull Engineering LLC	Project Name:	C Rush				AN	WALYSIS LABO	SIS	LA lental	BO	ANALYSIS LABORATORY www.hallenvironmental.com	RY
1 Bullio	Address	5016	Mailing Address: 501 Air part Dr. Ste 205	Sunce D	Sunce Disporel #1	±)	4	4901 Hawkins NE - Albuquerque, NM 87109	visins	E - N	andric	rque,	AM 8	109	
HOULE #	(So:	S) FIL	Phone # (505) 7-14-2387					1.61. 000-040-04/0	0.010	Ana	rax o lysis F	 Fax pub-sep-et10/ Analysis Request 	1		
voc Pa	email or Fax#: N	Muzzds	erail or Faxet: huxeds@aulunginaurig.com อMoc Package	Project Manager.	Lab			(DSIW	-	(5	(*QS'	2'E	-	-	-
Standard	ard	ļ	Level 4 (Full Validation)	Heather Woods	ulbods		-			SINIS	'Od'	bC	_	_	
Accreditation	P	D Other	я.	Sampler: Headhar Woods	AVAN UND	od S E No				0128	CON'S	1 9082	(\	P	_
EDD (Type)	Type)			Sample Temperature: 4, 6 °C	erature. 4.	3.9		99)			-	_		nys:	_
Date	Time	Matrx	Sample Request ID	Container Type and #	Preservative Type	I TOPIOI	TM + XET8 TM + XET8	86108 H9T	ED8 (Weitro	PAH's (8311 RCRA 8 Me	D, H) anoinA	olized 1808 VOV) 80958	-me2) 0728	NAHA WZ	
NO	9/17 0920		Water S-5(9/1/17)	/ (1) 500 Plash	HNO3	- 001						-		×	
-				1)50m Punk	HOON	100-									_
				() SOMI PLAYER NA PHALE	ZW ANIAH	- 001									
	1			(2) Sand Planti	Non	100-	-	П	_						
				7 [1]125 m. Plan	HoszH .	-001									
				(Dizsmi Planic HNOS	HNOS	- 001			-			-			_
77	ľ			(5) I LAnder Gute	Non	-001						-			
				(3) your you	HCI	- 001						-			
11/10	Inter 1710 1871	Relinquished by. Miletth Relinquished by.	ished py. the M. Waror- ished by Napor-	Context by Background by	- alt	9/1/17 1715 Bajo Timo 9/2/17 1250		Remarks: Direct Bill to A	40 00	41 4	Panel	Not	- Ro	Remarks Direct Rul to Ague Acco - Rotes per Arady Su Artechus Poger (2)	Ppu

Sunco Disposal #1 Quarterly Laboratory Analytical List Page 1

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

18. <u>Cooler Information</u> <u>Cooler No Tramp *C Condition Scot Intent Seek No Cool Date</u> Supraid By 1 4.5 Good Yes

17. Additional remarks:

Page 1 of 1

EPA HW No.	Contaminant	SW-846 Methods	Regulatory Leve (mg/L)
D004	Arsenic	1311	5.0
D005	Barium	1311	100.0
D018	Benzene	8021B	0.5
D006	Cadmium	1311	1.0
D019	Carbon tetrachloride	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	\$270D	200.0
D026	Cresol	\$270D	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

Sunco Disposal #1 Quarterly Laboratory Analytical List Page 2

D036	Nitmbenzene	8091 8270D	2.0
D037	Pentrachlorophenol	8041	100.0
0018	Pyradine	8260B 8270D	5.0
D010	Selenium	1311	lr.ó
DOLL	Silver	1311	5.0
D019	Terraphioroethylene	826013	0.7
DBIO	Frichloroethylene	8021B 8260B	- 0.5
D0/11	2,4,5-Trichlorophenol	82700	400.0
D042	2.4.6 Trichlorophenol	8041A 8270D	2.0
D043	VinyLchloride	8021B 8260B	0.2

(I on m, mail recrease) concentrations cannot be differentiated, then the total creasel (DD26) concentration is used. The regulatory level of traci crease is 200 mg/L. If the quantitation limit is greater than the regulatory level, then the quantitation limit becomes the regulatory level. If greats (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, cerbonate, chloride, sulfate, total dissolved solida, cation/anion balance, pH, and bromide) using the methods specified at 40 CFR 136.3.



Hall Envir mul Analyzas Labor 1901 Harekine NI. Altraguergae, Nid 87100 TE2, 505-745-3975 FAX: 505-345-4101

OrderNo,: 1710519

Heather Woods Rule Engineering LLC 501 Airport Dr., Ste 205 Farmington, NM 87401 TEL: (505) 325-1055 FAX:

RE: Agua Moss Sunco Disposal #1

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/10/2017 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 #NM0190

Sincerely,

andyl

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis	Labors	atory, Ir	ıc.		_	Analytical Report Lab Order 1710519 Date Reported:	
CLIENT: Rule Engineering LLC Project: Agua Moss Sunco Disposal #1 Lab ID: 1710519-001	Matrix	AQUEOU		Collection	Date: 30	5 (R)(10/9/17) 9/2017 12:33:00 PM 10/2017 7:10:00 AM	
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8081: PESTICIDES			_	10		Analyst	MAB
Chlardane	ND	0.010		mg/L		10/10/2017 12:47:29 PM	34375
Sur: Decachlombipnenyl	40.4	57 8-124	s	%Find	1.1	10/19/2017 12:47:20 PM	34376
Sur Tetrachioni-m-sylena	49.5	43-114		NARO	1	10/13/2017 12:47:29 PM	34376
EPA METHOD 80218: VOLATILES						Analyst	NSB
Benziehe	0 36	0.020		mg/L	20	10/11/2017 3:05:58 PM	B4625
Toluene	1.6	0.020		mgl	20	10/11/2017 3.05.58 PM	B46254
Envibenzene	0.1	0.020		mg/L	20	10/11/2017 3:05:58 PM	84625
Kylenes, Total	5.1	0.040		mpl	20	10/11/2017 3:05-58 PM	B4525
Surr. 4-Bromoliuprobrizone	198.1	72.5-140		%Rec	20	10/11/2017 3:05:58 PM	B40251

QC SUMMARY Hall Environment				ory, Inc.	-				WOR	1710519 02-Nov-1
Ctient: Rule Em	gineering 1	LC								
Project: Agua M	oss Sunco	Disposi	6.01							
Sample ID: RB	Samp	Type: M	BLK	Ter	tCode E	PA Method	S0218: Vela	lles		
Cilent ID PBW	Rain	10 B	6259		RunNo: A	0340				
Prep Data:			0/11/2017		SeqNo. 1		Units ug/L			
Analyte	Result	POL	SPK value	SPK Ref Val	HREC	Lostima	HighLimit	RPD	RPOLImit	Quili
Geriperie	ND	1.0			0.112.0	Carrieria	- construct		Sta Destac	- Catalan
Toluttie	ND	1.0								
Enyberane	ND	10								
Kylema Tital	NO	20								
Sur 4-Branduasbinaria	19		20.00		05.3	72.5	140			
Sample ID: 100NG BTEX LCS	s Samp	Type: Lo	:5	Ter	tCode E	PA Melhod	8021B: Volat	lize	_	
Client ID: LCSW	Bato	h ID: BA	6259		RunNo: 4	6259				
Prep Date:	Analysis I	Dato: 1	0/11/2017		SoqNo: 1	474046	Units µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	WREC	LowLimit	HighLimit	KRPD	RPDLind	Quei
Bergane	18	1.0	\$0.00	0	91.9	717	126			-
laturne	19	1.0	20.00	0	92.7	73 3	119			
Efflyibeitzene	19	1.0	20.00	0	95.1	80	120			
Kylenes, Total	57	2.0	80.00	0	95.3	80	120			
Sur: 4.Brono/uorotenzene	20		20,00		99.5	72.5	140			
Sample ID: 1710519-001AMS	Santo	Type: M	5	Tes	dCode El	PA Minihod	80216; Volat	iles .		
Client ID: S-5 (R)(10/9/17)	Ball	6 ID. B	6259	1	RunNa 4	5259				
Prep Date:	Analysis I	Date: 1	0/11/2017		SegNo: 1	474050	Units: µg/L			
Analyla	Result	PQL		SPK Ref Val	SAREC	LowLinit	HighLimit	/sRPD	RPDUmit	Qual
Benzene.	780	20	400,0	383.4	99.0	62.3	126			
Toluene	2000	20	400.0	1573	98.4	48.8	134			
Ethy icerusine	500	20	406.0	89.96	99.3	44.4	142			
Cytemole, Todal	2300	40	1200	1076	104	55.7	129			
Sum 4-Bromoflugrobenzere	400		400.0	1	99.1	72.5	140			
Sample ID: 1710619-001AMS		ype M		Tes	tCode: El	PA Method	80218; Volat	lles.		
Cirent ID 3-5 (R)(50/9/17)	Batz	D B4	5259		RunNa: 4	5259				
Prop Date:	Analysis C	hile. 1	0/11/2017	4	SegNo: 1	474051	Units Hg/L			
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
lentere	740	20	400.0	363.4	94.7	62,3	126	2.31	20	
Tolume	1900	50	400.0	1573	90.9	48,6	134	1.55	20	
TryCestaine	490	20	400.0	99.96	96,7	44.4	142	211	20	
Kylemes, Total	2300	-40	1200	1075	97.9	55.7	129	3.00	20	
Suit 4 Bromofiuorobertrene	390		400.0		97.5	72.5	140	0	0	

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

Value exceeds Maximum Consummant Level
D Sample Diluted Data to Matrix
I Italiag and the in Matrix
I Italiag and the Reporting Limit
POI Not Detected in the Reporting Limit
POI Pointing Quantative Limit
5 MSRecovery ownide of mage due in clusters in mains

Qualifiers

D Analytic detected in the susceinted Method Black Value above quantitation image Analytic detected below quantitation limits Page Sample (14 Not Is Range Rig Reporting Detection Limit

ann limits Page T of 9

- W Sample centainer temperature is out of limit to specified

Qui 4 en

Qualifiers:
Value Extended Anvärenn Contaminant La
Sample Dihated Das ta Matrix
Sample Dihated Das ta Matrix
Sample Dihated Das ta Matrix
ND Not Detected at the Reporting Lamit
RQL Practice Quantative Lamit
S % Recovery outside of range dae to dilati

int Lovel.

Analytic detected in the associated Method Blank B

Analyte detected in the associated Metricki Dank Value scove quantification era Analyte detected before quantification limits Sample pi Nor in Range Reporting Doctorio Limit Sample completent temperature is out of limit as specified Page 1 of 0

QC SUMMAR Hall Environmen				ory, Inc.	-				WO#:	1710519 02-Nov-17
	Ingineering LL Moss Sunco Di		d#1							
Sample ID: MB-54376	SampTyp	ar M	BUK	Tes	Code: E	PA Method	BOB1: PEST	CIDES		
Client ID: PBW	Batch I	0. 34	376		RunNo: 4	6352				
Prep Date: 10/12/2017	Analysis Dal	0. 1	0/13/2017	- 1 A	SegNo: 1	476481	Units: ug/L			
Analyte	Result	POL	SPK value	SPK Ret Val	WREC	LowLink	HighLimit	SRED	RPDLimit	Qual
Chiordena	ND	1.0								
Ser: Decentize biphenyi	5.0		2,500		62,3	57.4	124			
Son Tetrachurchnargiere	15		2 500		60.2	43	114	-		_
Sample (D: LCS-GHLORDA	ANE-3 SampTyp	e Lo	S-Chlord	Tel	Code E	PA Method	BOBI: PESTA	CIDES		
Cloni ID. BaichOC	Batch I	0 54	376		tunNo: 4	6352				
Prep: Date: 10/12/2017	Analysis Dat	0: 1	0/13/2017	4	iostio 1	476482	Units ug/L			
Analyte	Result	POL	SPK value	SPK Ref Val	WREC	LowLimit	HighLimit	KRPD	RPDLink	Gual
Chlordane	4.8	1.0	10.00	0	47.6	37.3	118			-
Sur: Decembrobbleryl	1.3									
Sum Telrachloro-m-rylena	1.0	_						_		_
Sample ID LCSD-CHLORD	ANE- SampTyp	e: Èć	S-CHLOR	Tes	Cade E	PA Method	BORT: PEST	CIDES		
Client ID: BatchQC	Batch I	2. 34	376		tunNo 4	6352				
Prop Date: 10/12/2017	Analysis Dat	ė. 1	0/13/2017		iegNo. 1	476507	Unita: µg/L			
Analyte	Result	POL	SPK value	SPK Ret Val	MREC	LowLimit	HighLimit	WRPD	RPDLimit	Qual
Chiomane	6.5	7.0	10.00	0	65.0	37.3	118	30.9	0	-
Sart Decationbiohenvi	1.0							10		
Sum Tetachloro-minylens	1.3									

Record Tum-Around Time: Hall ENVIRONMENTAL C X Standord Rush C X Standord Rush	La 200 Anua Mass & Suma Directed H	000000	12	Project Manager Project Manager H.A.M.hur (Upred S MS) MS) 0.04, 500, 0.04, 500, 0,	Sampler: Heat/Luc (uppers) (11, 11, 11, 11, 11, 11, 11, 11, 11, 11	A 100 1 1 100 4 1 1 10 1 10 10 10 10 10 10 10 10 10 10	1.1.48	LANDUG Non 201	(3) your von HcL Cul X				Under Ander Ander Internation Direct Bill to Agua Mass Under Under Under 10/9/17, 1871 Coasts par Andy Moust Andre Agua Mass
Chain-of-Custody Record	Mailing Address, 501 Octobert, No.	IN NM 61401	Phone #: (505) 711-2787	email of Fact: histordes Crudenginuering com อควอราชสมนะ & Standard	D Other		Matrix Sample	1233 Wat 5-5(R)(18/9/17)					Reservated by Histle M. Whon Mindry I NOUN
Chain-	Mailing Address.	Forming	Phone #: (505	email or Fax# hu QA/OC Package: W Standard	Acceditation	TI EDD (Type)	Time	1233 1/4/11		1			Date Time R

- flers: Value excessls Maximum Contain Sample Diffued Due to Matrix Holding times for preparation or a
- Not Descoted at the Reporting Limit NIT:
- POL Practical Quanitative Limit
- Th Redo ary outside of range due to dis
- Value showe quantitation range Analyse detected below quantita Sample pH Not in Rang Report ing Detection Lima

Page 2 of 0

out of Hanit as a

Analyte detected in the as

EIIIC Engineering, LLC Solutions to Regulations for Industry

January 18, 2018

Ms. Shacie Murray Aqua Moss LLC P.O. Box 600 Farmington, New Mexico 87499

Sunco Disposal #1 Re: Injection Water Quarterly Monitoring 4th Quarter 2017

Dear Ms. Murray:

This report summarizes the sample collection, field screening, and laboratory analysis of the injection water at the Agua Moss LLC Sunco Disposal #1 well for the 4th Quarter 2017. Injection water of the Class I Sunco Disposal #1 well is assessed on a quarterly basis in accordance with 20.6.5207(B) NMAC.

Field Activities

Rule Engineering, LLC (Rule) personnel collected one injection water sample (S-6) from the process line inside the pump building at the location on December 7, 2017. Injection water was discharged directly from the valve of 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-6) was field screened for time sensitive parameters including pH, temperature, reduction potential (Eh), specific conductance, and total dissolved solids (TDS). 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

Benzene concentration for sample S-6 was reported as 1.1 mg/L, which exceeds the Toxicity Characteristic Concentration of 0.5 mg/L. However, only RCRA Subtitle C exempt oilfield waste is accepted at the facility and elevated concentrations of benzene can be expected.

1055 Kipling Street, Lakewood, CO 80215 / 501 Airport Drive #205, Farmington, NM 87401 (303) 431-8500 : Fax: (303) 431-3750 : www.ruleengineering.com : (505) 325-1055

Ms. Shacie Murray Sunco Disposal #1: Injection Water Monitoring – 4th Qtr 2017 January 18, 2018 Page 2 of 2

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 removed from the stable environment of the process line. 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 reduction potential and corrosivity by pH.

A dilution due to matrix gualifier is indicated on the laboratory report for total dissolved solids

The recovery of a surrogate spike for chlordane was below the anticipated percentage range due to dilution or matrix interference and above the anticipated percentage range due to dilution or matrix interference for reactive cyanide.

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 Rule's report and Service 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.

Rule Engineering appreciates the opportunity to provide services to Agua Moss LLC. If you have any questions, please contact me at (505) 325-1055.

Sincerely, Rule Engineering, LLC

Heather M. Woods Heather M. Woods, P.G. Area Manager/Geologist

Attachments:

Table 1. Summary of Field Screening and Laboratory Analytical Results Laboratory Analytical Reports (Hall: 1712479)

isuie

12/7/2	017		Toxicity
Laboratory Results	Field Results	Units	Characteristic Concentration:
7.06 H	7.07	SU	ooncentration
	10.7	*C	
228 H	-224.6	mV	
73,000	52,047	µmhos/cm	
1.025	-		
39,200 D	33,832	mg/L	
740.3		mg/L	
<2.000		mg/L	
<2.0		mg/L	
25,000		mg/L	
37		mg/L	
		mg/L	
		mg/L	
5,100		mg/L	
		mg/L	
			5.0 ma/L
			5.0 mg/L 100.0 mg/L
			0.5 mg/L
			1.0 mg/L
			0.5 mg/L
			0.03 mg/L
			100.0 mg/L
			6.0 mg/L
0.087			5.0 mg/L
<200			200 mg/L
<7.5			7.5 mg/L
< 0.50		mg/L	0.5 mg/L
<0.70		mg/L	0.7 mg/L
<0.13		mg/L	0.13 mg/L
<0.13		mg/L	0.13 mg/L
< 0.50		mg/L	0.5 mg/L
<3.0		mg/L	3.0 mg/L
0.038		mg/L	5.0 mg/L
			0.2 mg/L
		mg/L	200.0 mg/L
		mg/L	2.0 mg/L
			100.0 mg/L
			5.0 mg/L
			1.0 mg/L
			5.0 mg/L
			0.7 mg/L
			0.5 mg/L
			400.0 mg/L
			2.0 mg/L
		mg/L	0.2 mg/L
°C - degrees Celcius °F - degrees Farenheit mV - millivolts			
	7.06 H	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	7.07 su

H - Holding times for preparation or analysis exceeded D - Sample diluted due to matrix S - % Recovery outside of range due to dilution or matix

1.00 Concentration exceeds the Toxicity Characteristic Conce

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1 of 1



DOM/DONE	to megunete	one for indu	MIY.	

Hall E	nviro	nmental Analysis	Labora	tory, Iı	1c.			Analytical Report Lab Order 1712479 Date Reported:	
LIENT	Rule F	Engineering LLC			(lient Sample	ID: S.e	5(12/7/17	
					``				
Project:		Disposal 1						7/2017 10:36:00 AM	
Lab ID:	17124	79-001	Matrix:	AQUEOU	IS	Received D:	ate: 12/	8/2017 7:55:00 AM	
Analyses			Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA MET	THOD 8	081: PESTICIDES TCLP						Analyst	MAB
Chlordar	ne		ND	0.15		mg/L	1	12/15/2017 2:13:50 PM	35478
Surr: I	Decachlo	probiphenyl	118	57.8-124		%Rec	1	12/15/2017 2:13:50 PM	35478
Surr:	Tetrachlo	pro-m-xylene	120	43-114	S	%Rec	1	12/15/2017 2:13:50 PM	35478
EPA MET	THOD 8	270C TCLP						Analyst	DAM
2-Methyl	Iphenol		ND	200		mg/L	1	12/15/2017 2:58:12 PM	35503
3+4-Met		h	ND	200		mg/L	1	12/15/2017 2:58:12 PM	
Phenol			ND	200		mg/L	1	12/15/2017 2:58:12 PM	
2.4-Dinit	trotoluen	8	ND	0.13		mg/L	1	12/15/2017 2:58:12 PM	
Hexachl	orobenze	ne	ND	0.13		mg/L	1	12/15/2017 2:58:12 PM	
Hexachle	orobutad	iene	ND	0.50		mg/L	1	12/15/2017 2:58:12 PM	35503
Hexachle	oroethan	e.	ND	3.0		mg/L	1	12/15/2017 2:58:12 PM	35503
Nitroben		-	ND	20		mg/L	1	12/15/2017 2:58:12 PM	
Pentach	lorophen	al	ND	100		mg/L	1	12/15/2017 2:58:12 PM	
Pvridine			ND	5.0		mg/L	1	12/15/2017 2:58:12 PM	
2,4,5-Tri		enol	ND	400		mg/L	1	12/15/2017 2:58:12 PM	
2,4,6-Tri			ND	2.0		mg/L	1	12/15/2017 2:58:12 PM	
Cresols.			ND	200		ma/L	1	12/15/2017 2:58:12 PM	
	2-Fluoror	ohenol	37.7	15-124		%Rec	1	12/15/2017 2:58:12 PM	
	Phenol-d		31.9	15-118		%Rec	1	12/15/2017 2:58:12 PM	
		bromophenol	73.1	15-148		%Rec	1	12/15/2017 2:58:12 PM	
	Nitroben:		59.2	40 6-124		%Rec	1	12/15/2017 2:58:12 PM	
	2-Fluorol		57.0	35.7-128		%Rec	1	12/15/2017 2:58:12 PM	35503
	4-Terphe		45.2	18.8-115		%Rec	1	12/15/2017 2:58:12 PM	
SPECIFI		/ITY						Analyst	JRR
Specific			1.025	C			1	12/19/2017 12:14:00 PM	
		00.0: ANIONS						Analyst	
Fluoride			ND	2.0		mg/L	20	12/8/2017 4:20:33 PM	R4766
Chloride			25000	1000		mg/L	20 2E	12/28/2017 1:11:33 AM	
Bromide			37	2.0		mg/L	20	12/8/2017 4:20:33 PM	R4766
		hophosphate (As P)	ND	2.5		mg/L	5	12/8/2017 4:08:08 PM	R4766
Sulfate	5103, 010	iopriospriate (As 1)	170	2.5		mg/L	5	12/8/2017 4:08:08 PM	R4766
Nitrate+1	Nitrite as	N	ND	20		mg/L	-	12/28/2017 1:23:58 AM	
SM2510E	B: SPEC	FIC CONDUCTANCE				0		Analyst	
Conduct	livity		73000	250)	µmhos/cm	50	12/14/2017 12:22:59 AM	/ R4780
SM2320E	B: ALKA	ALINITY						Analyst	JRR
Bicarbor	nate (As	CaCO3)	740.3	20.00		mg/L CaCO3	1	12/11/2017 4:41:02 PM	R4772
Carbona			ND	2.000		mg/L CaCO3	1	12/11/2017 4:41:02 PM	
		ie QC Summary report an		gin checkli	st for f		a and p	reservation information	n
Qualifiers:	* D H	Value exceeds Maximum Cor Sample Diluted Due to Matrix Holding times for preparation	ntaminant Levo c or analysis ex	el.		B Analyte det E Value abov J Analyte det	ected in t e quantita ected bel	he associated Method Blank ation range ow quantitation limits Page	
			or analysis ex	ceeded			ected bel	ow quantitation limits Pag	6

PQL Practical Quanitative Limit S % Recovery outside of range due to dilution or matrix

RL Reporting Detection Limit W Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

nuarv 18. 20<u>1</u>8

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

OrderNo.: 1712479

Heather Woods Rule Engineering LLC 501 Airport Dr., Ste 205 Farmington, NM 87401 TEL: (505) 325-1055 FAX

RE: Sunco Disposal 1

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/8/2017 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. provided if the sample analysis of 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 #NM0190 Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analys	sis Labora	atory, Inc	2.			Analytical Report Lab Order 1712479 Date Reported:	
CLIENT: Rule Engineering LLC Project: Sunco Disposal 1 .ab ID: 1712479-001	Matrix:	AQUEOUS			te: 12/	(12/7/17 7/2017 10:36:00 AM 8/2017 7:55:00 AM	
Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Bate
SM2320B: ALKALINITY						Analyst	JRR
Total Alkalinity (as CaCO3)	740.3	20.00		mg/L CaCO3	1	12/11/2017 4:41:02 PM	R47
SM2540C MOD: TOTAL DISSOLVED						Analyst	
						,	
Total Dissolved Solids	39200	200	*D	mg/L	1	12/13/2017 9:25:00 AM	3544
SM4500-H+B: PH						Analyst	: JRR
pH	7.06		н	pH units	1	12/11/2017 4:41:02 PM	R47
EPA METHOD 7470: MERCURY						Analyst	ME
Mercury	0.0016	0.00020		mg/L	1	12/27/2017 2:44:45 PM	
EPA METHOD 6010B: DISSOLVED M						Analyst	
Calcium	5100	100		mg/L		1/4/2018 2:24:41 PM	A48
Magnesium	290	5.0		mg/L	5	1/2/2018 10:05:49 AM	A48
Potassium	1000	100		mg/L		1/4/2018 2:24:41 PM	A48
Sodium	6500	100		mg/L	100	1/4/2018 2:24:41 PM	A48
EPA 6010B: TOTAL RECOVERABLE	METALS					Analyst	: ME
Arsenic	0.16	0.040		mg/L	2	1/3/2018 10:41:06 AM	354
Barium	19	1.0		mg/L	50	1/3/2018 10:42:45 AM	354
Cadmium	ND	0.0020		mg/L	1	12/14/2017 10:04:27 Al	
Chromium	0.087	0.0060		mg/L	1	12/14/2017 10:04:27 AI	
Lead	0.038	0.010		mg/L	2	1/3/2018 10:41:06 AM	354
Selenium	0.24	0.10		mg/L	2	1/5/2018 12:53:07 PM	354
Silver	0.035	0.0050		mg/L	1	12/14/2017 10:04:27 AI	vi 354
TCLP VOLATILES BY 8260B						Analyst	RA
Benzene	1.1	0.50		mg/L	200	12/12/2017 3:00:00 AM	T47
1,2-Dichloroethane (EDC)	ND	0.50		mg/L	200	12/12/2017 3:00:00 AM	T47
2-Butanone	ND	200		mg/L	200	12/12/2017 3:00:00 AM	T47
Carbon Tetrachloride	ND	0.50		mg/L	200	12/12/2017 3:00:00 AM	T47
Chloroform	ND	6.0		mg/L		12/12/2017 3:00:00 AM	
1,4-Dichlorobenzene	ND	7.5		mg/L		12/12/2017 3:00:00 AM	
1,1-Dichloroethene	ND	0.70		mg/L		12/12/2017 3:00:00 AM	
Hexachlorobutadiene	ND	0.50		mg/L		12/12/2017 3:00:00 AM	
Tetrachloroethene (PCE)	ND	0.70		mg/L		12/12/2017 3:00:00 AM	
Trichloroethene (TCE)	ND	0.50		mg/L		12/12/2017 3:00:00 AM	
Vinyl chloride	ND	0.20		mg/L		12/12/2017 3:00:00 AM	
Chlorobenzene Surr: 1.2-Dichloroethane-d4	ND 111	100 70-130		mg/L %Rec		12/12/2017 3:00:00 AM 12/12/2017 3:00:00 AM	
Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene	111	70-130 70-130		%Rec %Rec		12/12/2017 3:00:00 AM 12/12/2017 3:00:00 AM	
Surr: Dibromofluoromethane	101	70-130		%Rec		12/12/2017 3:00:00 AM	
Refer to the QC Summary report	and sample lo	gin checklist	for fl	agged QC data	and pr	eservation informatio	n.

Value exceeds Maximum Contaminant Level.
 Sample Diluted Due to Matrix
 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
 Page 2 of 16

 P
 Sample pH Not In Range

RL Reporting Detection Limit W Sample container temperature is out of limit as specified

Hall Environmental Analy	sis Labora	tory, Inc.		Analytical Report Lab Order 1712479 Date Reported:
CLIENT: Rule Engineering LLC Project: Sunco Disposal 1 Lab ID: 1712479-001	Matrix:	AQUEOUS	Collection	De ID: S-6 (12/7/17 Date: 12/7/2017 10:36:00 AM Date: 12/8/2017 7:55:00 AM
Analyses	Result	PQL Qua	l Units	DF Date Analyzed Batch
TCLP VOLATILES BY 8260B Surr: Toluene-d8	97.6	70-130	%Rec	Analyst: RAA 200 12/12/2017 3:00:00 AM T4769

1712479-001G S-6(12/7/17) Collected date/time: 12/07/17 10:36

SAMPLE RESULTS - 01

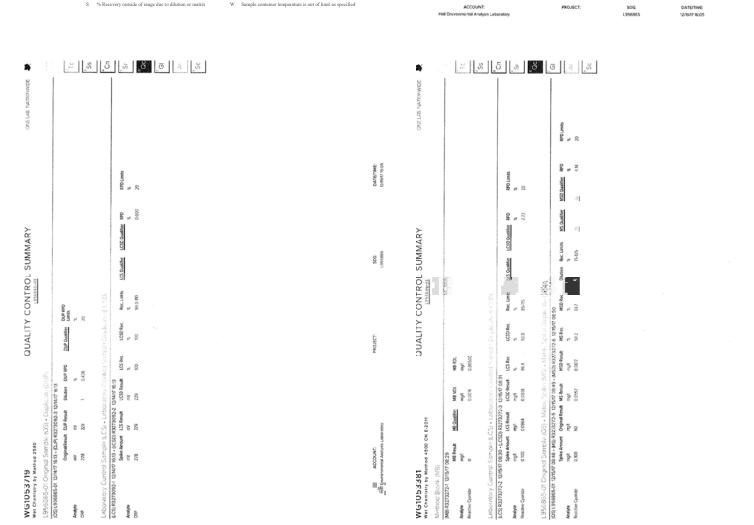
ONE LAB. NATIONWIDE.

Wet Chemistry by	Method 2580						
	Result	Qualifier	Dilution	Analysis	Batch		
Analyte	mV .			date / time			F****
CRP	228	16	1	12/14/2017 16:13	wG1053719		Te
Wet Chemistry by	Method 4500	CN E-2011					Ss
	Result	Qualifier	RDL	Dilution	Analysis	Belch	
Analyte	ngA		ng1		date / time		°Cr
Reactive Cyanide	ND	10	0.00500	1	12/15/2017 08:48	WG1253381	
Wet Chemistry by	Method 4500F	+ B-2011					*Sr
	Result	Qualifier	Oilution	Analysis	Batch		
Analyte	SU			date / time			0
Corresivity by pH	6.89	TB	1	12/13/2017 11:90	W61052727		
Sample Narrative:							G
L956865-01 WG1052727; 6	5.89 at 11.6C						- C
Wet Chemistry by	Method 9034-9	030B					
	Result	Qualifier	RDL	Oilution	Analysis	Batch	Sc
Analyte	ng1		mg/l		date / time	_	
Reactive Sulfide	ND		0.0500	1	12/13/2017 16:54	W5/053534	
Wet Chemistry by	Method D93/10	IQA					
	Result	Qualifier	Dilution	Analysis	Batch		
Analyte	deg F			date / time			
Flashpoint	DNF at 170		1	12/15/2017 11:35	AG0053532		

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

- B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits Page 3 of 16
 Sample pH Not In Range
 W Sample container temperature is out of limit as specified
- Value exceeds Maximum Contaminant Level.
 Sample Diluted Due to Matrix
 Holding times for preparation or analysis exceeded
 ND. Not Detected at the Reporting Limit
 POL. Practical Quantitive Limit
 % Recovery outside of range due to dilution or matrix

Qualifiers:

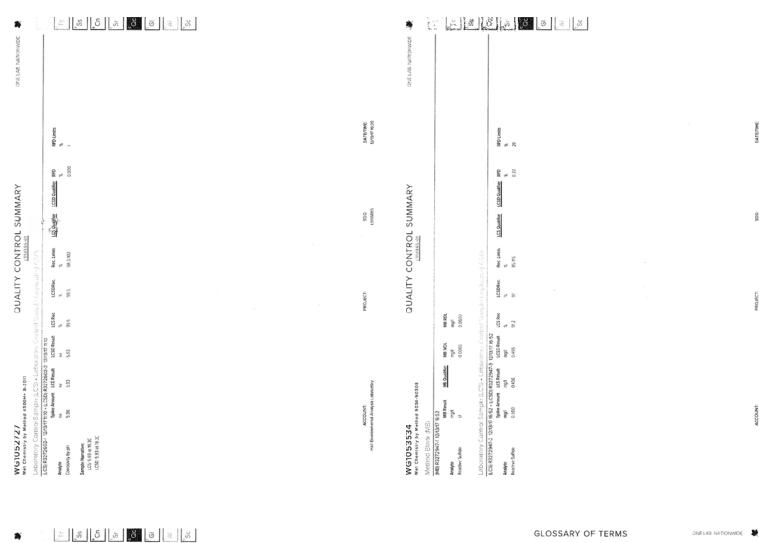


DATE/TIME: 2/19/17 16:05

508: L956865

PROJECT:

ACCOUNT:



DATE/TIME: 12/19/17 16:05

SD3:

PROJECT:

ACCOUNT:

ACCOUNT: nental Analysis Labo

Hall Enviro

ONE LAB. NATHONWIDE. RPD Limits % 648 % LCSD Qualifier QUALITY CONTROL SUMMARY LCS Qualifier Rec. Limits % DUP RPD Limits % LCSD Rec. 4. 99.6 DUP Quelifier 1 1 39.6 Original Reuth DiPReath Division DUPRPO deg F drg F 1 1 17 17:35 - (LCSD) R3273409-2 12/15/17 11:35 Spike Amount UCS Rosult LCSD Result U 069 F 069 F 069 F 3 82.0 817 81.3 9 L957491-02 Original Sample (OS) • Duplicate IDI IO5149549102 12/5/49102 12/5/77 1:35 • [DUP] 83273409-3 12/5/77 1:35 iample (LCS) -WG1053532 Wet Chemistry by Method D93/1010A Leborntory Control LCS) R3273409-1 12/15/07

Analyte Flashpoint

Analyte Flashpoint

DATE/TIME: 12/19/17 16:05

SDG: L956865

DATE/TIME: 2/19/17 16:05

SDG: 956855

ROJECT:

ACCOUNT:

The information below intended as a compreh	is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not ensive explanation, and if you have additional guestions please contact your project representative.
Abbreviations an	
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, 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 dated 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 resu reported. If a Qualifier's present, a definition per Qualifier is provided within the Giossay and Definitions page and potentially a discussion of possible implications of the Qualifier in the Qualifier in the Qualifier and popilable.
Result	The actual analysical final result (concreted for any sample specific characteristics) reported for your sample). If there was no measurable sub-star flaturated for a specific analysis for result in this cubinni may state 1%07 (allow Descisted or 1%07, (Below Detectable Levels). The information in the result is cubinni should always be accompanied by either an MD, control to the start of the or report for this samply(or).
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 Narialize to discuss tile memming all any data guardities 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 a matrixi.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to werly that time and date of collection, the person collecting the samples, and the analyses that the lacentity a recursted to perform. This chain of custody also documents all persons (socialing commercial shippers) that have had control or possession of the samples from the time of collection until celevery to be 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 enalysis 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 are times of preparation and/or analysis.
Qualifier	Description
16	The sample matrix interfered with the ability to make any accurate determination: spike value is low.
	the service method in the owny to make any accurate determination, spike value is low.

PROJECT:

WO#: 1712479 Hall Environmental Analysis Laboratory, Inc. 10-Jan-18

Client: Rule En	gineering L	LC								
Project: Sunco I	Disposal 1									
Sample ID MB	SampT	ype: ml	blk	Tes	tCode: El	PA Method	300.0: Anion:	5		
Client ID: PBW	Batch	D: R4	7664	F	tunNo: 4	7664				
Prep Date:	Analysis D	ate: 1	2/8/2017	S	eqNo: 1	523111	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	SampT	ype: Ic:	5	Tes	tCode: El	PA Method	300.0: Anion:	5		
Client ID: LCSW	Batch	n ID: R4	7664	F	tunNo: 4	7664				
Prep Date:	Analysis D	ate: 1	2/8/2017	5	eqNo: 1	523112	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.51	0.10	0.5000	0	103	90	110			
Bromide	2.5	0.10	2.500	0	100	90	110			
Phosphorus, Orthophosphate (As P	5.1	0.50	5.000	0	102	90	110			
Sulfate	10	0.50	10.00	0	99.9	90	110			
Sample ID MB	SampT	ype: ml	blk	Tes	tCode: El	PA Method	300.0: Anion:	5		
Client ID: PBW	Batch	D: A4	8068	F	tunNo: 4	8068				
Prep Date:	Analysis D	ate: 1	2/27/2017	5	eqNo: 1	540761	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	SampT	ype: Ic:	5	Tes	tCode: El	PA Method	300.0: Anion:	5		
Client ID: LCSW	Batch	D: A4	8068	F	tunNo: 4	8068				
Prep Date:	Analysis D	ate: 1	2/27/2017	5	eqNo: 1	540762	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	95.9	90 90	110			
Nitrate+Nitrite as N	3.5	0.20	3 500	0	101		110			

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Client: Project:		gineering LL visposal 1	.С								
	LCS-35478	SampTy	pe: LC	s	Tes	tCode: El	PA Method	8081: Pesticio	des TCLP		
Client ID:	LCSW	Batch	ID: 35	478	F	RunNo: 4	7820				
Prep Date:	12/13/2017	Analysis Da	ate: 12	2/15/2017	s	SeqNo: 1	529812	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Decach	lorobiphenyl	0.0031		0.002500		126	57.8	124			S
Surr: Tetrach	nloro-m-xylene	0.0025		0.002500		102	43	114			
Sample ID	LCSD-35478	SampTy	pe: LC	SD	Tes	tCode: El	PA Method	8081: Pesticio	des TCLP		
Client ID:	LCSS02	Batch	ID: 35	478	RunNo: 47820						
Prep Date:	12/13/2017	Analysis Da	ate: 12	2/15/2017	s	SeqNo: 1	529814	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Decach	nlorobiphenyl	0.0029		0.002500		117	57.8	124	0	0	
Surr: Tetrach	nloro-m-xylene	0.0024		0.002500		95.9	43	114	0	0	
Sample ID	MB-35478	SampTy	pe: MB	BLK	Tes	tCode: Ef	PA Method	8081: Pesticio	des TCLP		
Client ID:	PBW	Batch	ID: 35	478	F	RunNo: 4	7820				
Prep Date:	12/13/2017	Analysis Da	ate: 12	2/15/2017	S	SeqNo: 1	529816	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chlordane		ND	0.030								
Surr: Decach	nlorobiphenyl	0.0021		0.002500		85.0	57.8	124			
Surr: Tetrach	nloro-m-xvlene	0.0017		0.002500		66.6	43	114			

Client:

Project:

Sample ID 100ng Ics2

Client ID: LCSW

Prep Date:

Analyte Benzene 1,1-Dichloroethene Trichloroethene (TCE)

Chlorobenzene chiorobenzene Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8

 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

0.011 0.010 0.011 0.0099

SampType: LCS

Batch ID: T47690

Analysis Date: 12/12/2017

ND 0.50 0.02000 ND 100 0.02000

0.02000 0.01000 0.01000 0.01000 0.01000

Rule Engineering LLC

Sunco Disposal 1

Analyté detected in the associated Méthod I
 Value above quantitation range
 J Analyté detected below quantitation limits
 P Sample pH Not In Range
 R. Reporting Detection Limit
 W Sample container temperature is out of limit

B Analyte detected in the associated Method Blank

TestCode: TCLP Volatiles by 8260B

RunNo: 47690 SeqNo: 1524101 Units: mg/L

0 0 107 105

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

 ND
 0.50
 0.02000
 0
 111
 70
 130

 ND
 0.70
 0.02000
 0
 115
 70
 130

Page 4 of 16

WO#:

Page 6 of 16

1712479

10-Jan-18

- ure is out of limit as specified

 Qualifiers:
 *
 Value exceeds Maximum Contaminant Level.

 D
 Sample Diluted Due to Matrix
 Heading times for preparation or analysis exceeded

 ND
 Next Detected at the Reporting Limit
 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

Page 5 of 16

WO#:

Page 7 of 16

1712479

10-Jan-18

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

RL Reporting Detection Limit W Sample container temperat

ature is out of limit as specified

QC SUMMARY REPORT Hall Environmental Analysis Lab

Hall	Environmental	Analysis	Laboratory,	Inc.

	ngineering Ll Disposal 1	LC								
Sample ID 1712479-001am	s SampT	ype: MS	\$	Test	Code: T	CLP Volatil	es by 8260B			
Client ID: S-6 (12/7/17	Batch	ID: T4	7690	R	unNo: 4	7690				
Prep Date:	Analysis D	ate: 12	2/12/2017	S	eqNo: 1	524104	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	2.2		2.000		112	70	130			
Surr: 4-Bromofluorobenzene	2.0		2.000		101	70	130			
Surr: Dibromofluoromethane	2.1		2.000		107	70	130			
Surr: Toluene-d8	2.0		2.000		98.3	70	130			
Sample ID 1712479-001am	sd SampT	ype: MS	D	Test	Code: T	CLP Volatil	es by 8260B			
Client ID: S-6 (12/7/17	Batch	ID: T4	7690	R	unNo: 4	7690				
Prep Date:	Analysis D	ate: 11	2/12/2017	S	eqNo: 1					
		uto. 12	12/2011	-	ioqivo. I	524105	Units: mg/L			
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	Units: mg/L HighLimit	%RPD	RPDLimit	Qual
							0	%RPD 5.48	RPDLimit 20	Qual
Benzene	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit			Qual
Benzene I,1-Dichloroethene	Result 4.5	PQL 0.50	SPK value 4.000	SPK Ref Val 1.135	%REC 84.5	LowLimit 70	HighLimit 130	5.48	20	Qual
Benzene I,1-Dichloroethene Frichloroethene (TCE)	Result 4.5 3.6	PQL 0.50 0.70	SPK value 4.000 4.000	SPK Ref Val 1.135 0	%REC 84.5 89.5	LowLimit 70 70	HighLimit 130 130	5.48 5.81	20 20	Qual
Benzene I,1-Dichloroethene Frichloroethene (TCE)	Result 4.5 3.6 3.4	PQL 0.50 0.70 0.50	SPK value 4.000 4.000 4.000	SPK Ref Val 1.135 0 0	%REC 84.5 89.5 84.5	LowLimit 70 70 70	HighLimit 130 130 130	5.48 5.81 4.48	20 20 20	Qual
Analyte 3enzene fichloroethene fichloroethene (TCE) Chlorobenzene Surr: 12-Dichloroethane-d4 Surr: 4-Bromofiluoroberzene	Result 4.5 3.6 3.4 3.3	PQL 0.50 0.70 0.50	SPK value 4.000 4.000 4.000 4.000	SPK Ref Val 1.135 0 0	%REC 84.5 89.5 84.5 83.4	LowLimit 70 70 70 70	HighLimit 130 130 130 130 130	5.48 5.81 4.48 5.44	20 20 20 20	Qual
Benzene I,1-Dichloroethene Frichloroethene (TCE) Chlorobenzene Surr: 1,2-Dichloroethane-d4	Result 4.5 3.6 3.4 3.3 2.2	PQL 0.50 0.70 0.50	SPK value 4.000 4.000 4.000 4.000 2.000	SPK Ref Val 1.135 0 0	%REC 84.5 89.5 84.5 83.4 112	LowLimit 70 70 70 70 70 70	HighLimit 130 130 130 130 130 130	5.48 5.81 4.48 5.44 0	20 20 20 20 0	Qual

Sample ID rb2	SampT	ype: ME	BLK	Tes	tCode: T	CLP Volatil	es by 8260B			
Client ID: PBW	Batcl	h ID: T4	7690	F	RunNo: 4	7690				
Prep Date:	Analysis E	ate: 12	2/12/2017	5	SeqNo: 1	524102	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.50	ornenado	or render that	Joi a Co	LOWLINK	rigitzitit	701010	To Denni	acuti
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								
Hexachlorobutadiene	ND	0.50								
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		112	70	130			
Surr: 4-Bromofluorobenzene	0.010		0.01000		100	70	130			
Surr: Dibromofluoromethane	0.011		0.01000		109	70	130			
Surr: Toluene-d8	0.0098		0.01000		98.1	70	130			
Sample ID 1712479-001ams	SampT	ype: MS	3	Tes	tCode: T	CLP Volatil	es by 8260B			
Client ID: S-6 (12/7/17	Batc	h ID: T4	7690	F	RunNo: 4	7690				
Prep Date:	Analysis D	ate: 12	2/12/2017	5	SeqNo: 1	524104	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	4.8	0.50	4.000	1.135	90.9	70	130			
1,1-Dichloroethene	3.8	0.70	4.000	0	94.9	70	130			
Trichloroethene (TCE)	3.5	0.50	4.000	0	88.4	70	130			
Chlorobenzene	3.5	3.0	4.000	0.007600	88.1	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.

- PQL
- Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQU. Practical Quantitative Limit
 % Recovery outside of range due to dilution or matrix
 S
 - Analyte detected in the associated vietnor i E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

B Analyte detected in the associated Method Blank

Qualifiers: Value exceeds Maximum Contaminant Level.

- Value exceeds Maximum Contaminant Level.
 D. Sample Duted Due to Matrix
 Helding 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
 - E RL
- Analyte detected in the associated weinour Value above quantitation range Analyte detected below quantitation limits Sample pH Not In Range Reporting Detection Limit

B Analyte detected in the associated Method Blank

Sample container temperature is out of limit as specified W

rr: 1,2-Dichloroethane-d4	2.2		2.000		112	70	130			
rr: 4-Bromofluorobenzene	2.0		2.000		101	70	130			
rr: Dibromofluoromethane	2.1		2.000		107	70	130			
rr: Toluene-d8	2.0		2.000		98.3	70	130			
mple ID 1712479-001amsc	I SampTy	pe: MS	D	Tes	tCode: T	CLP Volatile	es by 8260B			
ent ID: S-6 (12/7/17	Batch	ID: T4	7690	F	RunNo: 4	7690				
p Date:	Analysis Da	ate: 12	2/12/2017	5	SeqNo: 1	524105	Units: mg/L			
alyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
tene	4.5	0.50	4.000	1.135	84.5	70	130	5.48	20	
Dichloroethene	3.6	0.70	4.000	0	89.5	70	130	5.81	20	
loroethene (TCE)	3.4	0.50	4.000	0	84.5	70	130	4.48	20	
robenzene	3.3	3.0	4.000	0.007600	83.4	70	130	5.44	20	
rr: 1,2-Dichloroethane-d4	2.2		2.000		112	70	130	0	0	
rr: 4-Bromofluorobenzene	2.0		2.000		101	70	130	0	0	
rr: Dibromofluoromethane	2.1		2.000		107	70	130	0	0	

Hall Environmental Analysis Laboratory, Inc.

		<i></i>		,						10 5411
Client: Rule Eng	ineering	LLC								
Project: Sunco Di	sposal 1									
Sample ID 1712479-001cms	Samn	Type: MS		Tes	tCode: E	PA Mothod	8270C TCLP			
Client ID: S-6 (12/7/17		ch ID: 35			RunNo: 4		02/00 TOLF			
Prep Date: 12/14/2017		Date: 12			SeaNo: 1		Units: mg/L			
Fiep Date. 12/14/2017	Allalysis	Date. 14	2/15/2017		sequo. I	530559	Units. mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	0.081	0.0010	0.1000	0	80.8	23.9	129			
3+4-Methylphenol	0.18	0.0010	0.2000	0	90.8	15	167			
2,4-Dinitrotoluene	0.070	0.0010	0.1000	0	70.5	15	147			
Hexachlorobenzene	0.079	0.0010	0.1000	0	79.4	41.4	136			
Hexachlorobutadiene	0.080	0.0010	0.1000	0	80.3	16.2	134			
Hexachloroethane	0.070	0.0010	0.1000	0	69.8	20.6	124			
Nitrobenzene	0.081	0.0010	0.1000	0	81.1	39.5	134			
Pentachlorophenol	0.069	0.0010	0.1000	0	68.8	15	137			
Pyridine	0.041	0.0010	0.1000	0	41.1	15	129			
2,4,5-Trichlorophenol	0.096	0.0010	0.1000	0	95.8	15	158			
2,4,6-Trichlorophenol	0.086	0.0010	0.1000	0	85.5	15	153			
Cresols. Total	0.26	0.0010	0.3000	0	88.3	10.6	179			
Surr: 2-Fluorophenol	0.11		0.2000		56.5	15	124			
Surr: Phenol-d5	0.095		0.2000		47.7	15	118			
Surr: 2.4.6-Tribromophenol	0.22		0.2000		109	15	148			
Surr: Nitrobenzene-d5	0.085		0.1000		85.0	40.6	124			
Surr: 2-Fluorobiphenyl	0.083		0.1000		82.9	35.7	128			
Surr: 4-Terphenyl-d14	0.051		0.1000		51.5	18.8	115			
Sample ID 1712479-001cmsc	I Samp	Type: MS	SD	Tes	tCode: E	PA Method	8270C TCLP			
Client ID: S-6 (12/7/17	Bate	ch ID: 35	503	F	RunNo: 4	7841				
Prep Date: 12/14/2017	Analysis	Date: 12	2/15/2017	5	SeqNo: 1	530560	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	0.075	0.0010	0.1000	0	74.7	23.9	129	7.77	20	
3+4-Methylphenol	0.16	0.0010	0.2000	0	79.6	15	167	13.1	20	
2,4-Dinitrotoluene	0.072	0.0010	0.1000	0	71.9	15	147	1.94	23.2	
Hexachlorobenzene	0.076	0.0010	0.1000	0	76.1	41.4	136	4.17	20	
Hexachlorobutadiene	0.083	0.0010	0.1000	0	83.0	16.2	134	3.28	20	
Hexachloroethane	0.069	0.0010	0.1000	0	69.3	20.6	124	0.633	31.3	
Nitrobenzene	0.087	0.0010	0.1000	0	86.6	39.5	134	6.53	26.6	
Pentachlorophenol	0.041	0.0010	0.1000	0	40.8	15	137	51.0	27.9	R
Pyridine	0.037	0.0010	0.1000	0	36.9	15	129	10.7	47.4	
2,4,5-Trichlorophenol	0.093	0.0010	0.1000	0	92.9	15	158	3.07	36.9	
2,4,6-Trichlorophenol	0.078	0.0010	0.1000	0	77.9	15	153	9.38	37.2	
Cresols. Total	0.24	0.0010	0.3000	0	78.8	10.6	179	11.4	27.4	
Surr: 2-Fluorophenol	0.11		0.2000		52.8	15	124	0	0	
Surr: Phenol-d5	0.085		0.2000		42.3	15	118	0	0	
Surr: 2,4,6-Tribromophenol	0.18		0.2000		89.8	15	148	0	0	
con. 2,4,0-micromoprierid	0.10		0.2000		00.0	15		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 Detection Limit

 W
 Sample container temperature is out of limit as spec
 ure is out of limit as specified

QC SUMMARY REPORT WO#: 1712479 Hall Environmental Analysis Laboratory, Inc. 10-Jan-18

Client: Project:		gineering L isposal 1	LC								
Sample ID	lcs-1 ~20uS eC	SampT	ype: LC	s	Tes	tCode: SI	M2510B: S	pecific Condu	uctance		
Client ID:	LCSW	Batch	ID: R4	7803	F	RunNo: 4	7803				
Prep Date:		Analysis D	ate: 12	2/13/2017	5	SeqNo: 1	528860	Units: µmh	os/cm		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity		22	5.0	19.96	0	110	80	120			

QC SUMMARY REPORT

WO#:

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1712479

10-Jan-18

Hall Environmental Analysis Laboratory, Inc.

Client: Rule Engineering LLC Sunco Disposal 1 Project:

Sample ID 1712479-001cmsd	SampTy	SampType: MSD			Code: E	PA Method	8270C TCLP			
Client ID: S-6 (12/7/17	Batch	D: 35	5503	R	unNo: 4	7841				
Prep Date: 12/14/2017	Analysis Da	te: 1	2/15/2017	S	eqNo: 1	530560	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Nitrobenzene-d5	0.085		0.1000		85.2	40.6	124	0	0	
Surr: 2-Fluorobiphenyl	0.088		0.1000		87.9	35.7	128	0	0	
Surr: 4-Terphenvl-d14	0.046		0.1000		45.7	18.8	115	0	0	

 Qualifiers:

 • Value exceeds Maximum Contaminant Level.

 D Sample Diluted Due to Matrix

 H Folding times for preparatorian or analysis exceeded

 ND Not Detected at the Reporting Limit

 PQL
 Practical Quantitive 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
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WO#:

1712479

10-Jan-18

- RL Reporting Detection Limit W Sample container temperat
- rature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Client: Project:		gineering LLC Jisposal 1								
Sample ID	MB-35706	SampType: MI	BLK	Test	Code: EP	A Method	7470: Mercur	y		
Client ID:	PBW	Batch ID: 35	706	R	unNo: 48	037				
Prep Date:	12/26/2017	Analysis Date: 1:	2/27/2017	S	eqNo: 15	39683	Units: mg/L			
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury		ND 0.00020								
Sample ID	LCS-35706	SampType: LC	cs	Tes	Code: EP	A Method	7470: Mercur	y		
Client ID:	LCSW	Batch ID: 35	706	F	tunNo: 48	037				
Prep Date:	12/26/2017	Analysis Date: 1	2/27/2017	s	eqNo: 15	39684	Units: mg/L			
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercurv		0.0056 0.00020	0.005000	0	111	80	120			

Qualifiers:

- Value exceeds Maximum Contaminant Level.

- Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Mattrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 Post-Call Quantitative Limit
 % Recovery outside of range due to dilution or matrix
- 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 Detection Limit
 W Sample container temperature is out of limit as specified

B Analyte detected in the associated Method Blank

Qualifiers:

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- Qualifier:

 • Value exceeds Maximum Contaminant Level.

 D
 Sample Dhuted Due to Matrix

 H
 Holding times for preparatorian or analysis exceeded

 ND
 Not Detected at the Reporting Limit

 QL
 Practical Quantitative Limit

 S
 % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated without B
 Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Detection Limit

B Analyte detected in the associated Method Blank

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W Sample container temperature is out of limit as specified

WO#: 1712479 Hall Environmental Analysis Laboratory, Inc. 10-Jan-18

	-		-						
Client: Project:	Rule Engineering LLC Sunco Disposal 1								
Sample ID MB-A	SampType: MB	SampType: MBLK TestCode: EPA Method 6010B: Dissolved Metals							
Client ID: PBW	Batch ID: A48	122	F	tunNo: 48	8122				
Prep Date:	Analysis Date: 1/2	/2018	S	eqNo: 1	543126	Units: mg/L			
Analyte Magnesium	Result PQL ND 1.0	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID LCS-	A SampType: LC	6	Tes	tCode: EF	PA Method	6010B: Disso	lved Meta	als	
Client ID: LCSV	V Batch ID: A48	122	F	RunNo: 48	8122				
Prep Date:	Analysis Date: 1/2	/2018	S	eqNo: 1	543131	Units: mg/L			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Magnesium	56 1.0	50.00	0	112	80	120			
Sample ID MB-A	SampType: MB	SampType: MBLK TestCode: EPA Method 6010B: Dissolved Metals							
Client ID: PBW	Batch ID: A48	195	F	tunNo: 48	8195				
Prep Date:	Analysis Date: 1/4	/2018	S	eqNo: 1	546973	Units: mg/L			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND 1.0								
Potassium Sodium	ND 1.0 ND 1.0								
sodium	ND 1.0								
Sample ID LCS-	A SampType: LC	6	Tes	tCode: EF	PA Method	6010B: Disso	lved Meta	als	
Client ID: LCSV	V Batch ID: A48	195	F	tunNo: 48	8195				
Prep Date:	Analysis Date: 1/4	/2018	s	eqNo: 1	546974	Units: mg/L			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	49 1.0	50.00	0	97.9	80	120			
Potassium Sodium	48 1.0 47 1.0	50.00 50.00	0	96.6 94.1	80 80	120 120			
Soaium	47 1.0	00.0c	0	94.1	80	120			

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Client: Project:		ngineering LLC Disposal 1								
Sample ID	MB-35440	SampType: MI	BLK	Tes	tCode: E	PA 6010B:	Total Recover	able Meta	als	
Client ID:	PBW	Batch ID: 35	440	F	RunNo: 4	7726				
Prep Date:	12/11/2017	Analysis Date: 1	2/13/2017	s	SeqNo: 1	525934	Units: mg/L			
Analyte		Result PQL	SPK value	SPK Ref Val	X PEC	Loud imit	HighLimit	%RPD	RPDLimit	Qual
Arsenic		ND 0.020	OF IX VAIUS	OF ICTOR VAL	7014LO	LOWEIIIII	riigneiniit	70111 D	Ri Dunik	Quai
Barium		ND 0.020								
Cadmium		ND 0.0020								
Chromium		ND 0.0060								
Selenium		ND 0.050								
Silver		ND 0.0050								
_										
Sample ID	LCS-35440	5440 SampType: LCS TestCode: EPA 6010B: Total Recoverable Metals								
Client ID:	LCSW	Batch ID: 35	440	F	RunNo: 4	7726				
Prep Date:	12/11/2017	Analysis Date: 1	2/13/2017	5	SeqNo: 1	525935	Units: mg/L			
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic		0.47 0.020	0.5000	0	94.5	80	120			
Barium		0.51 0.020	0.5000	0	102	80	120			
Cadmium		0.50 0.0020	0.5000	0	101	80	120			
Chromium		0.48 0.0060	0.5000	0	96.6	80	120			
Selenium		0.50 0.050	0.5000	0	100	80	120			
Silver		0.10 0.0050	0.1000	0	105	80	120			
Sample ID	MB-35440	SampType: MI	BLK	Tes	tCode: E	PA 6010B:	Total Recover	able Meta	als	
Client ID:	PBW	Batch ID: 35	440	F	RunNo: 4	7726				
Prep Date:	12/11/2017	Analysis Date: 1	2/13/2017	S	eqNo: 1	526525	Units: mg/L			
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead		ND 0.0050								
Sample ID	LCS-35440	SampType: LC	s	Tes	tCode: E	PA 6010B:	Total Recover	able Meta	als	
Client ID:	LCSW	Batch ID: 35		F	RunNo: 4	7726				
	12/11/2017	Analysis Date: 1:			SeqNo: 1		Units: mg/L			
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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

 0.0050
 0.5000
 0
 104
 80
 120
 0.52

Client:

Project:

Sample ID mb-1 alk

Analyte Total Alkalinity (as CaCO3) Sample ID Ics-1 alk

Client ID: LCSW

Analyte Total Alkalinity (as CaCO3) Sample ID mb-2 alk

Client ID: PBW

Analyte Total Alkalinity (as CaCO3)

Sample ID Ics-2 alk

Client ID: LCSW

Analyte Total Alkalinity (as CaCO3)

Prep Date:

Prep Date:

Prep Date:

Client ID: PBW

Prep Date:

- 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

Batch ID: R47724

Batch ID: R47724

SampType: MBLK

Batch ID: R47724

Analysis Date: 12/11/2017

SampType: LCS

Batch ID: R47724

Analysis Date: 12/11/2017

Analysis Date: 12/11/2017

0 20.00 80.

Analysis Date: 12/11/2017

Rule Engineering LLC

Sunco Disposal 1

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

B Analyte detected in the associated Method Blank

TestCode: SM2320B: Alkalinity

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

 ND
 20.00

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

 78.80
 20.00
 80.00
 0
 98.5
 90
 110

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

 ND
 20.00

TestCode: SM2320B: Alkalinity

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

 78.44
 20.00
 80.00
 0
 98.0
 90
 110

SeqNo: 1525726 Units: mg/L CaCO3

SeqNo: 1525727 Units: mg/L CaCO3

SeqNo: 1525750 Units: mg/L CaCO3

SeqNo: 1525751 Units: mg/L CaCO3

RunNo: 47724

RunNo: 47724

0 30.5 TestCode: SM2320B: Alkalinity

RunNo: 47724

RunNo: 47724

SampType: LCS TestCode: SM2320B: Alkalinity

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WO#:

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1712479

10-Jan-18

Value above quantitation range

- RL Reporting Detection Limit W Sample container temperat ure is out of limit as specified

- Qualifiers:

 *
 Value exceeds Maximum Contaminant Level.

 D
 Sample Dhuted Due to Matrix

 H
 Holding times for preparation or analysis exceeded

 ND
 Next 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 J Analyte detected below quantitation limits P Sample pH Not In Range

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WO#:

1712479

10-Jan-18

- Value above quantitation range
- RL Reporting Detection Limit W Sample container temperat
- ature is out of limit as specified

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Rule Engi Sunco Dis		LC								
Sample ID 1	1712479-001DDUP	SampT	ype: DU	JP	Test	Code: S	pecific Gra	vity			
Client ID: 5	S-6 (12/7/17 Batch ID: R47877				R	tunNo: 4	7877				
Prep Date:		Analysis D	ate: 12	2/19/2017	S	eqNo: 1	532349	Units:			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Specific Gravity		1.026	0						0.0487	20	

Qualifiers:

- Value exceeds Maximum Contaminant Level.

- PQL
- Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 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

в

RL

W

Analyte detected in the associated wethod is Value above quantitation range Analyte detected below quantitation limits Sample pH Not In Range Reporting Detection Limit

Analyte detected in the associated Method Blank

Sample container temperature is out of limit as specified

Qualifiers: Value exceeds Maximum Contaminant Level.

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

RL

E

- B Analyte detected in the associated Method Blank Value above quantitation range Analyte detected below quantitation limits
 - Page 15 of 16
 - Sample pH Not In Range Reporting Detection Limit Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

	e Engineering LLC aco Disposal 1								
Sample ID MB-35443	SampType: M	BLK	Tes	Code: SM	2540C MC	DD: Total Diss	olved So	lids	
Client ID: PBW	Batch ID: 35	443	F	unNo: 47	725				
Prep Date: 12/11/2017	Analysis Date: 1	2/13/2017	s	eqNo: 15	25834	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-35443	SampType: LO	s	Tes	Code: SM	2540C MC	DD: Total Diss	olved So	lids	
Client ID: LCSW	Batch ID: 35	443	F	unNo: 47	725				
Prep Date: 12/11/2017	Analysis Date: 1	2/13/2017	s	eqNo: 15	25835	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			

WO#:

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1712479

10-Jan-18

Client Name: RULE ENGINEERING LL	Work Order Number:	171247	9			RoptNo:	1
Received By: Anne Thome 1	2/8/2017 7:55:00 AM			0m	1_		
Completed By: Anne Thorne 1	2/8/2017 10:13:08 AM				1-		
Reviewed By: Ar 12/08/17				cana,	1) w		
Chain of Custody							
1, Custody seals intact on sample bottles?		Yes [No		Not Present 🗹	
2, Is Chain of Custody complete?		Yes 5	2	No		Not Present	
3. How was the sample delivered?		Quarte	2				
Log In							
4. Was an attempt made to cool the samples?		Yes	2	No		NA 🗆	
5. Were all samples received at a temperature of	f >0° C to 6.0°C	Yes s	Z n	No		NA 🗆	
6. Sample(s) in proper container(s)?		Yes	2	No			
7. Sufficient sample volume for indicated test(s)?	, , ,	Yes 8	2	No			
8. Are samples (except VOA and ONG) properly	preserved?	Yes	/	No			
9. Was preservative added to bottles?		Yes [No		NA 🗆	
10.VOA vials have zero headspace?		Yes .	~ k	T/2/03	5	No VOA Vials	
 VOA viais have zero headspace? Were any sample containers received broken 	0	Yes	<u>.</u>		2		
11, more any sample containers receives crower	1	105				# of preserved bottles checked	
12. Does paperwork match bottle labels?		Yes &		No		for pH: >	2
(Note discrepancies on chain of custody)			_		2.	Adjusted?	or > Zaniese
13, Are matrices correctly identified on Chain of C	ustody?	Yes b	-	No		Adjusted r	-
14, is it clear what analyses were requested? 15. Were all holding times able to be met?		Yes b		No No	_	Checked by:	Ar 1
(If no, notify customer for authorization.)		105 1		140	- L		PH /4
Special Handling (if applicable)							
16. Was client notified of all discrepancies with thi		Yes [-	No	-	NA 🗹	

Client Instructions: 17. Additional remarks:

18. Cooler Information

 Cooler No
 Temp *C
 Condition
 Seal Intact
 Seal No
 Seal Date
 Signed By

 1
 1.0
 Good
 Yes
 Yes

Page 1 of 1

Oual	ifiers:
	Value ex
D	Sample I

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

 W
 Sample container temperature is out of limit as spo

ure is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmentat.com Hawkins E. - Aubugargus, MK 2109 005-945-3075 Fax 605-945-107 005-945-3075 Fax 605-945-107 Air Bubbles (Y or N) Rook Direct Bill to Agua Mass - Rades far Sue Atherbud Pages (2) See Attached × (AOV-ime2) 0728 (AOV) 80828 8081 Lesticides / 8082 PCB's nions (F,CI,NO₃,NO₂,PO₄,SO₄) RCRA 8 Metals 4901 Hawkins NE -Tel. 505-345-3975 (SMIS 0728 to 0158) a'HA9 (1.403 borteM) 803 kny sub-contract (1.814 borteM) H9T (ОЯМ \ ОЯО \ ОЯО) ВЗГОВ НЧТ BTEX + MTBE + TPH (Gas only) i di di (1208) \$18MT + 38TM + X3T8 HEALNO. MIZ 479 Date Time 1 12/03/1 (930 <u> 9 9 9 9 9</u> 20 Vulocots Sunco Disposed # 1 (1)500mt Pake, VaCH
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 (1)500mt Pake, NaCH
 (2)250mt Pake, NaCH
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 (1)25mt Pake, NaCH
 (1)125mt Pake, NaCH
 (2)141, Marcian Jon
 (2)140, Marcian Jon Lubcools C Rush Heather Wood U)500 Make HNO3 Lype Turn-Around Time: ł roject Manager: Stardard Project Name: Container Type and # 3 "Mr Sampler: On Ice: Sample Te
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 <t Sample Request ID Level 4 (Full Validation) S-6 (12/3/17) Chain-of-Custody Record Date: Trine: Retinguished by: 10/1/1 (130 Aleas Alex A. Wondry) Date: Trine: Retinguished by: Rule Engineering , LLC (r) m Dether_ ₩ 1 WOLL ļ. Matrix < 2003 1036 QA/QC Package: Time Stardard Accreditation C EDD (Type) 1 =1/2/21 Date 442 Client

Sunco Disposal #1 Quarterly Laboratory Analytical List Page 1

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

EPA HW No.	Contaminant	SW-846 Methods	Regulatory Leve (mg/L)
D004	Arsenic	1311	5.0
D005	Barium	1311	100.0
D018	Benzene	8021B	0.5
D006	Cadmium	1311	1.0
D019	Carbon tetrachloride	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

Sunco Disposal #1 Quarterly Laboratory Analytical List Page 2

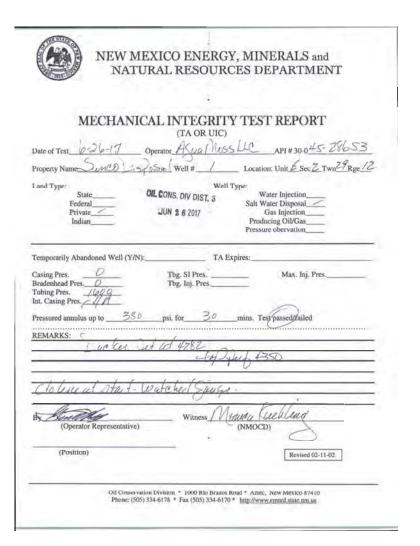
D036	Nitrobenzene	8091 8270D	2.0	
0037	Pentrachlorophenol	8041	100.0	
D038	Pyridine	8260B 8270D	5.0	
D010	Selenium	1311	1.0	
D011	Silver	1311	5.0	
D039	Tetrachloroethylene	8260B	0.7	
D040	Trichloroethylene	8021B 8260B	0.5	
D041	2,4,5-Trichlorophenol	8270D	400.0	
D042	2,4,6-Trichlorophenol	8041A 8270D	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 meals (dissolved), the EPA 1311 TCLP Laboratory Method is required with the exception of Mercury (total).

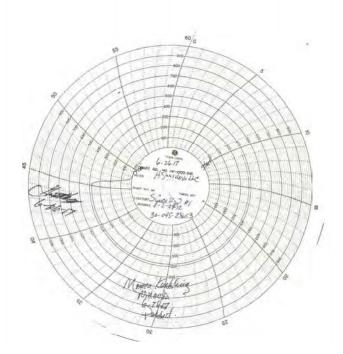
ADDTIONALLY:

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.

Appendix C







=)	1	& NA	TURA			MINERALS S DEPARTMENT MINERALS S DEPARTMENT MONTH AL (201) 334-4779 MONTH AL (201) 334-4779 MONTH AL (201) 334-4779 MONTH AL (201) 334-4779 MONTH AL (201) 334-4779
		DIV DI				Index data and many second particles of the second s
	JUN	2 6 201	7		and it into here in	
				B		HEAD TEST REPORT I copy to above address)
Date of	Test,	6.	2.6-	17	Operato	Ar AL LIA 1 A-3
Propert	v Nar	ne Su	wear	2.		1 Location: Unit E Section 2 Township 29 Range 12
	P. (1976)	1	2			ubing 800 Intermediate V/A Casing O Bradenhead O
well St	atust	Shut-In	or Produ	cing) In	mai PSI: 1	uting and Intermediate 11 Casing D Bradennead
OPE	N BR	ADENH	EAD AN	DINTER	EMEDIATE	TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH
Testing		Braden	PRESSU	RE	DM.	FLOW CHARACTERISTICS BRADENHEAD INTERMEDIATE
TIME	BH	Int	Csg	Int	Csg	DRADEGIEAD DITERMEDIATE
5 min_	0	-	0			Steady Flow
0 min_	0		0	-		Surges
5 min_	U		0			Down to Nothing / ULCULAT)
20 min_						Nothipg
25 min						Gas
30 min						Gas & Water
						Water
fbrade	nhead	flowed	water, che	k all of t	the description	ons that apply below:
	CLEA		FRESH		SALTY	SULFURBLACK
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		IUT-IN	PRESSUR	E	BRADENH	EAD INTERMEDIATE 1/14
REMAR	KS:	ma	11/1	CUU	nuire	u spened - Nothingloken
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-	(Posit	ion)	-			

Sunco SWD #1 30-045-28653 **Class I Disposal: UICI-5-0**

2017 Falloff Test



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
 - Sunco Disposal #1 c.
 - 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 5)
- 5. Copy of Porosity Log: Previously submitted 1992 (page 6)
- 6. See attached Fall off Test analysis
 - a. FOT Procedure (page 8)
 - b. Analysis (page 8)
 - c. Results (page 20) d. Summary (page 10)
- 7. Results Comparison attached (page 19)
- 8. The raw test data will be kept on file for a period of 3-year and will be made available to the
- NMOCD upon written request. (page 20) 9. Conclusions (page 20)
- 10. Any pressure or temperature anomaly: None seen on BH readings. As seen in Figures 4 & 5 the change in rate and surface pressure are not significant and quickly stabilize. The results, Table 1, and IRT analysis confirm that the injection rate attained a pseudo-steady state, therefore the slight variation did not affect the integrity of the results. 11. Plots attached
 - - a. Pressure and Rate (fig 3) (page 21) b. Injection Rate vs Time (fig 4) (page 22)
 - Pressure and Rate (fig 5) (page 23)
 - Elapsed Time (fig 2) (page 8) d
 - e.
 - Derivative Plot (fig 7) (page 24) Horner Plot (fig 7) (page 25)
 - Elapsed Gauge Time (fig 8) (page 26) g.
 - Injection Volumes and Surface Pressure (fig 9) (page 27)
 - Average Hourly Injection Rate (fig 10) (page 28)

12. NO PVT data necessary, injected 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 2017 through June 2017) are attached. (page 29-33)

- 14. The Sunco Disposal #1 has injected approximately 16,154,574 bbls into the point lookout formation from 1994 through July 2017 (see attached). 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. 1 Mile AOR:
 - a. AOR 1 mile (page 34)
 - b. AOR 1 mile well data (page 35)
 - 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 last Permit renewal submitted 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.

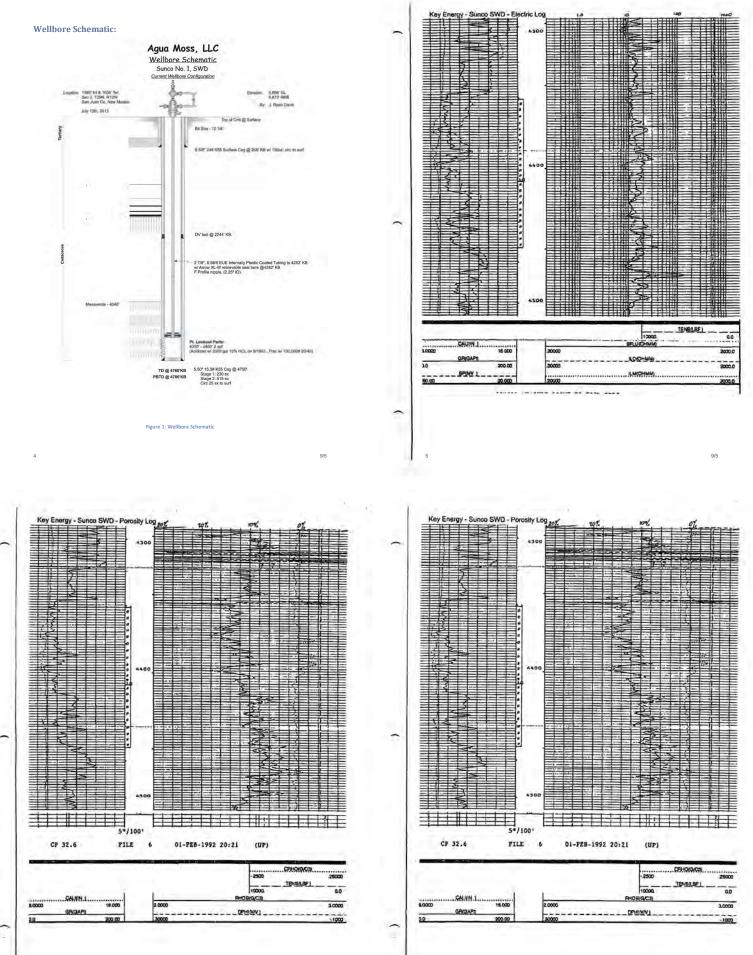
- Chronological listing of the daily, testing activities (operations log) attached (pages 37-53)
 - a. Date of Test: Monday June 26th , 2017 through Monday July 5th, 2017
 - b. Time of the injection period: ${\bf 50.63\ hours}$
 - c. Type of injection fluid: Produced water
 - d. Final injection pressure & temp prior to shutting in in the well: 3953.93 psi, 84.99 °F
 - Total shut-in time: 159.22 hours
 - f. Final static pressure & temp at the end of the fall-off portion of the test: 3457 psi, 92.44 °F

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: (see attached)

З

- a. SP-2000 Memory Pressure Gauge (page 54)
- b. Pressure range: 0-5000 psig (page 55)
- c. Last Calibration: 2/23/15 (page 37)



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At the request of the NMOCD and permit requirements, a Falloff Test (FOT) was performed on the Sunco SWD #1 Class | injection well (UICI-5-0) on 06/26/2017, Below is a summary of findings from the FOT.

Procedure:

Tandem electronic gauges were run in the subject well. The initial BHP was 3480 psi at a depth of 4405'. The injection period started at 3:00 pm on 06/26/2017, with a total of 6498 bbls injected over 50 hours, and an average injection rate of 3150 bpd (91 gpm). The final bottom hole injection pressure was 3953 psi. Injection was shut down and the well was shut it at the wellhead. The bottom hole pressures were monitored for 159 hours of pressure falloff. The final BHP was 3457 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 9 -18.

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



Figure 2 Pressure and Temp vs. Time

9/5

9/5



Sunco Disposal Well #1 2017 Fall-off Test Results

Summarv:

8

The results of the 2017 fall off test (FOT) for the Sunco Disposal Well #1 indicate that the length of the shut-in test did just allow the transient to reach a stabilized flow period and that the well has a significant hydraulic fracture. These results are similar to the 2015 and 2016 fall-off test results. The pressure transient effect of the frac plus the wellbore storage effects do obscure to some extent the reservoir property influences; however, a reasonable and satisfactory set of reservoir properties could be calculated. The conventional straight-line analysis for extrapolated reservoir properties could be calculated. The conventional straight-line analysis for extrapolated pressure and the reservoir property calculations from the Homer and MDH type plots are acceptable. The input parameters for the fluid properties (i.e. PVT data) were the same as the newly available data for the 2016 test (Report titled "2nd Quarter 2016 Sampling - Injection Weil.pdf", NM1-9 INJECTION WELL ANALYTICAL RESULTS, Agua Moss Disposal Facility, Crouch Mesa Road, San Juan County, New Mexico, 6/28/16).

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) = 10.4 md
- Estimated skin = -6.0
- -
- Extrapolated pressure = 3,273 psig Fracture half-length = 517 feet (from derivative half-slope line)
- Radius of investigation = 1,790 feet

Calculated Reservoir Parameters										
	Horner Analysis	MDH Plot	Derivative Plot	Average						
Estimated Kw (permeability, mD)	9.9	12.3	9.1	10.4						
Estimated skin (dimensionless)	-6.0	-5.9	-6.1	-6.0						
Extrapolated pressure (psig)	3,255	3,329	3,235	3,273						
Fracture half-length (feet)			517	517						
Radius of investigation (feet)	1,820	2,000	1,550	1,790						

Larger versions of the plots appear at the end of this document.



2017 Fall-off Pressure Test Analysis for the Sunco Disposal Well #1 San Juan County, New Mexico

prepared for

Merrion Oil and Gas Corporation

25 July 2017

International Reservoir Technologies, Inc. Lakewood, Colorado, USA

> Tel. (303) 279-0877 Fax (303) 279-0936

300 Union Blvd., Suite 400, Lakewood, Colorado 80228 (303) 279-0877 (303) 279-0936 Fax



Input data and assumptions:

- Assumptions: o Formation fluid properties equal injection water properties due to cumulative volume injected and miscibility of formation water and injection wate
 - Reservoir temperature = 91 deg F
 - Porosity = 0.114 (fraction, estimated from density log) Net pay = 110 feet

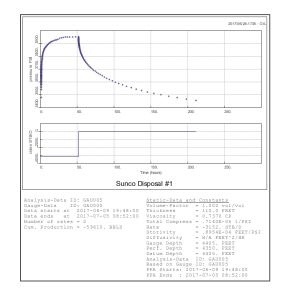
 - Rock compressibility = 4.50E-06 1/psi (correlation)
 - Wellbore radius = 0.506 ft
 - Wellbore volume total = 34.88 bbls (tubing = 24.79 bbls, casing = 10.09 bbls) Wellbore compressibility = injection water compressibility =2.64E-06 1/psi (from Osif correlation)
 - Injected water specific gravity = 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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DATA PLOT:





HORNER PLOT:

Conclusions: The stabilized flow period was reached relatively late in the conventional straightline extrapolation for the extrapolated pressure, however the reservoir property calculations appear reasonable.

- Estimated extrapolated pressure = 3,255 psig
- -
- Estimated Kw (permeability) = 9.9 md Estimated skin = -6.04 Radius of investigation = 1,820 feet 2017/08/28-1738 8 88 20 8 8 100 (Tp + dT)/dT Sunco Disposal #1 slope of the line = 247.1846 281/cycle extrapolated pressure = 3255.03 PST R(Zav) at 196.5 hr = 1920. FEET P(Inv) at 39.63 hr = 1000. FEET Static-Cats and Constants Wolume-Factor = 1.002 vol/vol Thickness = 110,0 FERT Viscosity = 0.7370 cc Total Compress = .72408-05 1/BH Fate = .2132.5Tm/D Storivity = .85548-04 FEET/I prod. time=153.0 hr at rate=-3152.31 STD/D Fate Storivity Diffusivity Sauge Depth Perf. Depth Intum Depth Analysis-Dat Based on Gau PFA Starts: PFA Ends - -3152. STB/D - .B954E-04 FEET. - 4159. FILT^2/B + 4405. FEET - 4350. FEET - 4405. FEET - 4405. FEET - 140005 ID: GAUG05 ID: GAUG05 ID-67-05 UB:52:00 skin = -6.04 permeability = 9.52 MD permethickness = 1000, MC-VEET

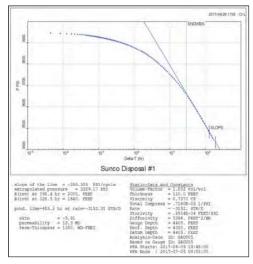
300 Union Blvd., Suite 400, Lakewood, Colorado 80228 (303) 279-0877 (303) 279-0936 Fax 9/5



MDH PLOT:

Conclusions: The 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 = 3,329 psig
- Estimated Kw (permeability) = 12.3 md
- Estimated skin = -5.91
- Radius of investigation = 2,000 feet



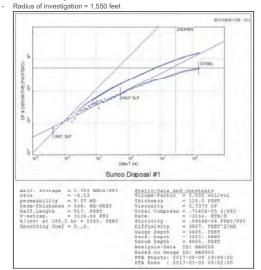
300 Union Blvd., Suite 400, Lakewood, Colorado 80228 (303) 279-0877 (303) 279-0936 Fax 9/5



DERIVATIVE PLOT:

Conclusions: The behavior of the derivative curve is affected by the wellbore storage and the influence of an apparent hydraulic fracture. The data does appear valid. Also the plot indicates that the length of the shut-in test was sufficient to reach a stabilized period. A half-slope is shown in the derivative curve which is characteristic of linear-flow due to a hydraulic-fracture. The calculated half-length for the fracture was 594 feet. There is no clear indication of a boundary or fault.

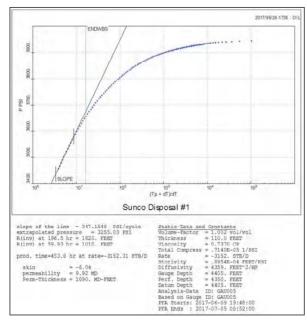
- Estimated extrapolated pressure = 3,235 psig
- Estimated Kw (permeability) = 9.07 md Estimated skin = -6.13
- Fracture half-length = 517 feet

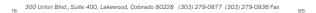




ENLARGED PLOTS:

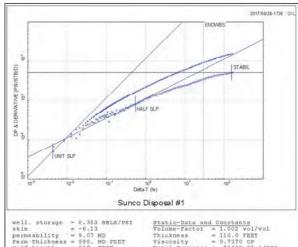
HORNER PLOT:







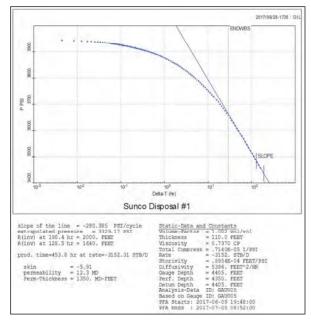
DERIVATIVE PLOT:



skin = -6.13	Volume-Factor = 1.002 vol/vol	
permeability = 9.07 MD	Thickness = 110.0 FEET	
Perm-Thickness = 998. MD-FEET	Viscosity = 0.7370 CP	
Half.Length = 517, FEET	Total Compress = .7140E-05 1/PSI	
P-extrap. = 3234.84 PSI	Rate = -3152. STB/D	
R(inv) at 155.1 hr = 1550. FEET	storivity = .8954E-04 FEET/PSI	
Smoothing Coef = 0.,0.	Diffusivity = 3987. FEET^2/HR	
	Gauge Depth = 4405. FEET	
	Perf. Depth = 4350, FEET	
	Datum Depth = 4405. FEET	
	Analysis-Data ID: GAU005	
	Based on Gauge ID: GAU005	
	PFA Starts: 2017-06-09 19:48:00	
	PFA Ends : 2017-07-05 08:52:00	



MDH PLOT:



300 Union Blvd., Suite 400, Lakewood, Colorado 80228 (303) 279-0877 (303) 279-0936 Fax 9/5

Results:

The results from the Horner, MDH, and Derivative pressure plots are summarized in the Table 1 below. The results for the different methods were consistent and the average calculated properties were:

- 1. P* = 3273 psi
- 2. K = 10.4 md 3. S = -6.0
- 4. Radius of Investigation = 1790 feet 5. No indication of boundary

Table 1 Calculated Reservoir Prop

Ca	lculated Reservoir	Parameters		
	Horner Analysis	MDH Plot	Derivative Plot	Average
Estimated Kw (permeability, mD)	9.9	12.3	9.1	10.4
Estimated skin (dimensionless)	-6.0	-5.9	-6.1	-6.0
Extrapolated pressure (psig)	3,255	3,329	3,235	3,273
Fracture half-length (feet)			517	517
Radius of investigation (feet)	1,820	2,000	1,550	1,790

The Derivative plot, Figure 6, shows flow regimes for wellbore storage, and linear flow, the stable or radial flow is not clearly present. The lack of a clear break-over into a flat plateau is most likely due to naturally fractured rock.

Comparison with past Falloff Tests:

The results from the 2017 FOT were compiled with previous FOT results from the facility and are shown below in Table 2.

Table 2: Results Comparison

	2017	2016	2015	2010	2009	2008	<u>2007</u>
Rate (bbl/day)	3150	3132	3340	4500			
P* (psi)	3273	3114	3283	3231	3242	3176	3258
K (md)	10.4	11.5	15.8	13.6	10.2	20.7	
S	-6.0	-5.93	-5.97	-7.18	-7.23	-6.79	
Radius of Inv (ft)	1790	1430	1580	1450	1250	1750	1620
Frac ½ Length (ft)	517	594	467	893	926	596	688
Boundary	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 differing P* over the last 3 years can most likely be explained by the increased injection volume in the months near the FOT. In both 2015 and 2017 the volume of injected water from April to June was about 20,000 and 40,000 bbls respectively more than in 2016. If given time to equilibrate before the FOT, it is expected that the P* would be close to the 2016 value.
- 2. The radius of investigation for 2017 was adequate enough to see out beyond all but one of the Previously seem boundaries. Note: On 2010 results seems peculiar to have a boundary beyond the Radius of Investigation.
- 3. The parameters calculated compare well enough with previous FOT parameter to validate the 2017 FOT results.

The raw test data obtain during the 2017 falloff test will be kept on file for a period of three (3) years and will be available upon request.

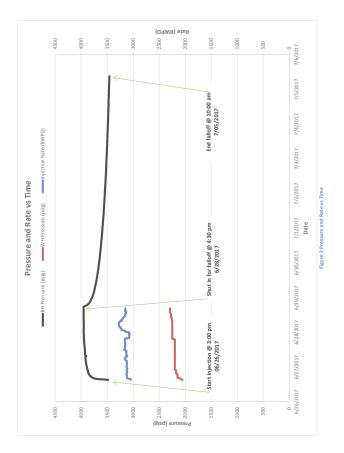
Conclusions:

20

Instanteous Injection Rate vs Time

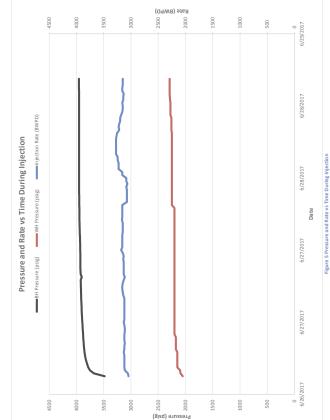
4000.00

Based on the above analysis and results comparison, Agua Moss believes the Sunco SWD #1 2017 FOT $\ensuremath{\mathsf{FOT}}$ was successfully completed. The results do not show indications of concern in continuing the current waste injection operations.





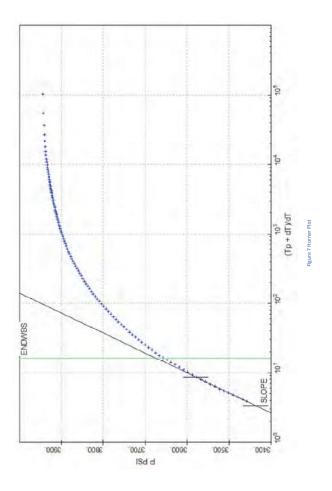
9/5

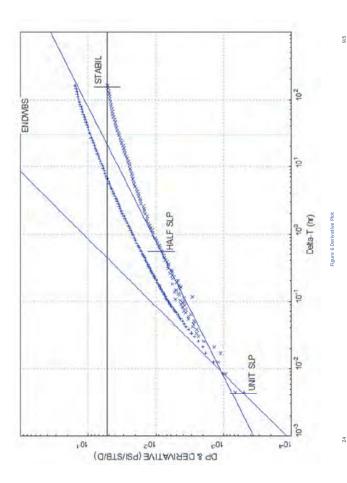


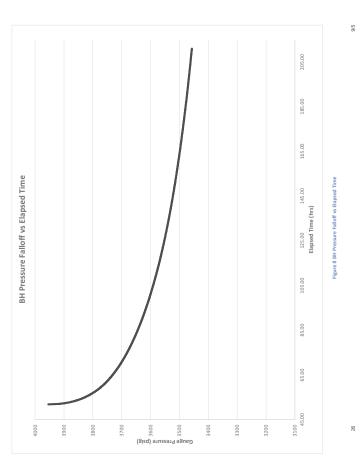
21

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23







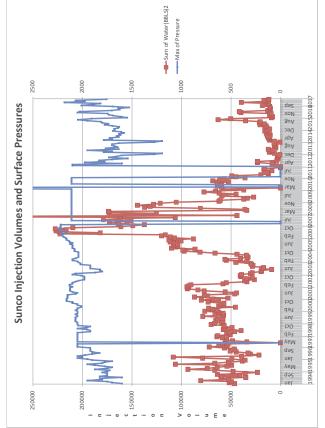


Figure 9 Injection and Pressure Plot

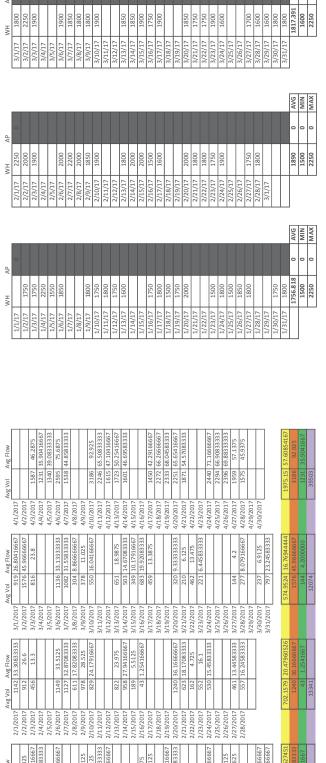
25



	7/1/17	7/2/17	7/3/17	7/4/17	7/5/17	7/6/17	71/1/L	7/8/17	7/9/17	7/10/17	7/11/17	7/12/17	7/13/17	7/14/17	7/15/17	7/16/17	7/17/17	7/18/17	7/19/17	7/20/17	7/21/17	7/22/17	7/23/17	7/24/17	7/25/17	7/26/17	7/27/17	7/28/17	7/29/17	7/30/17	7/31/17			
																																AVG	MIN	MAX
AP																																0	0	0
MH	2200	2200			2200	2250	2000	1700	2200			1800	2000	2000	2000	1900			1850	2100	2200	2250	2250			2200	2200	2290	1890	1850		2069.545	1700	2290
	6/1/17	6/2/17	6/3/17	6/4/17	6/5/17	6/6/17	6/7/17	6/8/17	6/9/17	6/10/17	6/11/17	6/12/17	6/13/17	6/14/17	6/15/17	6/16/17	6/17/17	6/18/17	6/19/17	6/20/17	6/21/17	6/22/17	6/23/17	6/24/17	6/25/17	6/26/17	6/27/17	6/28/17	6/29/17	6/30/17				

			_			_	_	_	_	_																			_	_	AVG	MIN	MAX
AP																															0	0	0
МН	2000	2100	2000	2000	2100			2000	2000	2000	2200	2100			2100	1800	200	1750	2100		2100	2200	2100	2200	2100				2200	2100	1975	200	2200
	5/1/17	5/2/17	5/3/17	5/4/17	5/5/17	5/6/17	5/7/17	5/8/17	5/9/17	5/10/17	5/11/17	5/12/17	5/13/17	5/14/17	5/15/17	5/16/17		18/		5/20/17		5/23/17	5/24/17	5/25/17	5/26/17	5/27/17	5/28/17	5/29/17	5/30/17	5/31/17			

	_	_	_	_	_			_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	AVG	MIN	MAX
AP																															0	0	0
ΜH			2100	1850	2250	2200	1950			2250	2300	2250	2200	2100			2100	2300	2250	2300	2300			2300	2300	2200	2300	1850			2182.5	1850	2300
	4/1/17	4/2/17	4/3/17	4/4/17	4/5/17	4/6/17	4/7/17	4/8/17	4/9/17	4/10/17	4/11/17	4/12/17	4/13/17	4/14/17	4/15/17	4/16/17	4/17/17	4/18/17	4/19/17	4/20/17	4/21/17	4/22/17	4/23/17	4/24/17	4/25/17	4/26/17	7	4/28/17	4/29/17	4/30/17			



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8

Avg Flow		20.825	10.00416667	38.47083333		27.76666667			25.1125	7.6125	21.233333333	7.291666667				9.975	27.9125		2	22.19583333				21.81666667			14.2625			-	24.09166667	20.1627451	38.470833	6.5041667	
Avg Vol		714	343	1319		952			861	261	728	250				342	957		805	761				748		1173	489			223	826	691.2941	1319	223	11752
Total Injected	1/1/2017	1/2/2017	1/3/2017	1/4/2017	1/5/2017	1/6/2017	1/7/2017	1/8/2017	1/9/2017	1/10/2017	1/11/2017	1/12/2017	1/13/2017	1/14/2017	1/15/2017	1/16/2017	1/17/2017	1/18/2017	1/19/2017	1/20/2017	1/21/2017	1/22/2017	1/23/2017	1/24/2017	1/25/2017	1/26/2017	/27/201	/28/201	1/29/2017	1/30/2017	1/31/2017	AVG	MAX	NIN	Total for month

29

972

AVG MIN MAX

-

Avg Flow	14.4375	30.333333333			15.77916667	31.12083333	26.57083333		16.5375			20.32916667	7.816666667	18.2875	11.9875				9.654166667	27.9125	5.83333333333	31.7625	20.475			17.70416667	90.53333333	88.05416667				26.95162037	90.53333333	5.8333333
Avg Vol	495	1040			541	1067	911		567			697	268	627	411				331	957	200	1089	702			607	3104	3019				924.0556		200
	6/1/2017	6/2/2017	6/3/2017	6/4/2017	6/5/2017	6/6/2017	6/7/2017	6/8/2017	6/9/2017	6/10/2017	6/11/2017	6/12/2017	6/13/2017	6/14/2017	6/15/2017	6/16/2017	6/17/2017	6/18/2017	6/19/2017	6/20/2017	6/21/2017	6/22/2017	6/23/2017	6/24/2017	6/25/2017	6/26/2017	6/27/2017	6/28/2017	6/29/2017	6/30/2017				
Avg Flow	20.7375	5.8625	21.93333333	20.97083333	24.90833333			17.325	28.525	37.12916667	32.05416667	22.89583333			8.254166667	5.570833333	13.65	7.816666667	23.77083333			12.27916667	10.99583333	15.19583333	27.76666667	22.89583333				33.65833333	10.2375	19.29242424		5.5708333
Avg Vol	711	201	752	719	854			594	978	1273	1099	785			283	191	468	268	815			421	377	521	952	785				1154	351	661.4545		191
	5/1/2017	5/2/2017	5/3/2017	5/4/2017	5/5/2017	5/6/2017	5/7/2017	5/8/2017	5/9/2017	5/10/2017	5/11/2017	5/12/2017	5/13/2017	5/14/2017	5/15/2017	5/16/2017	5/17/2017	5/18/2017	5/19/2017	5/20/2017	5/21/2017	5/22/2017	5/23/2017	5/24/2017	5/25/2017	5/26/2017	5/27/2017	5/28/2017	5/29/2017	5/30/2017	5/31/2017			

2016 AREA OF REVIEW UNIT LETTERS ENCOMPASSED BY THE 1-MILE AOR

Sec	TWN	RNG	UL
1	29N	12W	DELM
2	29N	12W	ALL
3	29N	12W	ABCFGHIJKOP
10	29N	12W	AB
11	29N	12W	ABCDEF
34	30N	12W	AGHIJKNOP
35	30N	12W	DEFGHIJKLMNOP
36	30N	12W	LM

All tracts within the AOR were reviewed for activity that had ensued since 2015 Annual Report.

	PLUGGED									4350-4460TA'd				NOI to PA 5/2014						TA'd 3/5/14				3/26/2013	and the second se
	P ac leer									4282 10/15/07															
	Perfs	6518-6718	6425-6602	1702-1926	1774-2077	1730-1951	1658-1878	1976 -2010	6489 -6596	4350 -4460	6446 -6644	1692 -1904	6432 -6524	1621 -1885	6277-6454	1543-1704 1744-1800	1811-1839	1726-1764	6298-6483	6396-657604'RC to FC1492-1870	6521-6708 94 RC to FC 1824-2037	629-6714	6460 6680 011 RC to FC 1784 1994	3492 -1870	
sing	Sacks TOC	300 surf	820 surf	310 surf	262 surf	255 surf	258 surf	250 surf	1065 surf	1010 surf	700 surf	289 surf	500 surf	238 surf	765 surf	229 surf	181 surf	270 surf	300 surf	1000 surf	445 surf	1425 surf	750 surf	6000 surf	
Production Casing	dep th	6785	6622	2151	2221	2195	2126	2106	1865	4760	6739	2112	889	2117	6514	1959	2022	2000	1099	6608	6760	6777 1	0520	9 6099	
Prode	size	4.5	5.5	4.5	4.5	4.5	4.5	3.5	4.5	SS	45	45	4.5	4.5	4.5	45	3.5	4.5	4.5	4.5	45	45	45	4.5	
	Sacks TOC				_																				
INT Casing	depth		_		_		2126	1978							_		1811	_	_					_	
INT	size d						6.25	5.5									5.5								
	Sacks TOC	200 surf	225 surf	90 surf	34 surf	85 surf	44 surf	10 surf	225 surf	150 surf	275 surf	150 surf	250 surf	61 surf	150 surf	55 surf	70 surf	35 surf	150 surf	295 surf	200 surf	170 surf	250 surf	250 surf	
Surface Casing	depth Sad	264 20	318 22	137 90	135 32	162 81	139 44	42 10	318 22	209 15	307 27	218 15	307 25	144 6:	240 15	147 St	106 70	140 32	250 15	316 29	301 20	230 17	306 25	316 25	
Sufa	size de		8.625 3	7	7 1	7	7 1	16	8.625	8.625 2	8.625 3	2	8.625 3	7 1	8.625	7	8.625	7 1	8.625 2	8.625 3		8.625 2	8.625 3	8.625 3	
	TD si	6785 8.265								4760 8.6	6740 8.6	32							6604 8.6		78 8.625			8	
	Spud Date T	3/12/1961 67	3/22/1985 5825	7/22/2004 2152	12/1/2004 2225	8/17/2006 2200	7/14/2003 2136	7/29/1944 2107	11/19/1961 6720	1/28/1992 47	8/1/1961 67	7/13/2007 2132	3/14/1964 6689	8/14/2005 2120	1/5/1981 6514	1/7/2003 1968	11/7/1955 1839	10/7/2003 2008	12/6/1961 66	11/20/1984 6608	12/19/1960 6778	6/15/1984 6780	7/22/1966 6750	10/9/1990 6608	
_	s. L	0	L 3	N N	0	0	z	-	-		0	8	-	- 00 LL	8		ء د	0	0	0	P 12	۵	-	N	
	RNG	1.2W	1 2 W	1.2W	1.2W	1.2W	1.2W	1.2W	12W	12W	1.2W	1 ZW	1 2W	1.2W	1.2W	1.2W	1.ZW	1.ZW	1.2W	1 ZW	1.2W	1.2W	1.2W	1 ZW	
	TWW	29N	29N	29N	29N	29N	29N	29N	29N	29N	29N	29N 1.2W	29N	29N	29N	29N	29N	29N	29N	30N	30N	30N	30N 1.2M	30N	
	Sec	-1	1		2	2	2	2	2	2	2	m	m	e	10	6	11	11	11	2	35	35	35	98	
	Status	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	TA/d	Active	Active	Active	Plugged	
	lease	Private	Federal	Federal	Private	Private	Federal	Federal	Private	Private	Private	Private	Private	Private	Federal	Federal	Federal	Federal	Federal	Federal	Private	Private	Federal	State	
	Typ e	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Sis	Salt Water Disposal	Sis	Sas	Gas	Gas	Gas	Sis	Gas	Gas	Sea	Gas	Sec	Gas	Sas	Sea	
	Ournent Operator	8P. America	8P. America	Energen Resources	Buringoon	Burlingbon	Burlington	Burlington	Burlington	A gua Moss	Burlington	Burlington	Burlington	Burlington	Buringoon	Burlington	l hompson Engr & Prod	Buringoon	8P. America	Burington	Hok amb Oil & Gas	Mertion OI & Gas	Burlington	Burlington	
	Well N	#00.1	A00 1E 0	A002R	VOOLR 0	A0015 B	4500	4007	4001 B	1004	100	003S	#001	#1005	A001E B	0014	1 1006	M01 8	4001 B	#001E	1004	A002	N003	A02.4 B	
	WellName	ALLEN A			_		CORNELL COM	COR NELL SRC		SUNCO DISPOSAL		MCGRATH /			BECK A	CORNELL		CORNEL	CORNELLC	DUFF GAS COM	3045-08946 CARNAH AN CO M	30-045-25844 CAR NAH AN CO M	r NOSONH	IC STATE COM	
	IdV	30045-08851 A	30045-26214 ALLEN A	30045-32346 CORNEL	30045-32241 BEOK	30045-33811 BEO	30045-31580 C	30045-08714 C	30045-08704 MCGRATHB	30045-28653 \$	30045-08839 YOUNG	30045-33580 A	30045-08712 MCGRATH A	30045-32931 WALKER	30045-23889 8	30045-30381 C	30-045-06615 CORNEL	30045-31581 C	30045-13092 C	30045-26141 D	3@45-08946 C	30-045-25844 C	3004S-11770 H	30-045-28177	

* * * * * * _{*} * * * * * *

	Total	Cumulative	Volume	(barrels)	1443363	14445410	14458751	144708 25	144708 25	14510328	14524880	14541513	14541513	14541513	14541513	14541513	14541513	14541513	14541513	14541513	146493@ Life Of well injecte
	F	Cum	Volume Vo	(barrels) (ba	L	11 752 144	13341 144	12 074 144		39503 14	14 552 14	16 63 314		0 14	0 14	q 14		q 14	0 14	0 14	107855 14
		Minimum	Volume Vo	(pdq) (pa	Previous year	223	43	144	Previous Quarter	1231	191	200	Previous Quarter	0	0	0	Previous Quarter	0	0	0	Total for year 10
		Maximum M	Volume V	(pdq)		13 19	12.40	15 76		3186	12.73	31.04		Þ	0	0		0	0	0	Total
		~	Average	Volume (bpd)		691.2941176	702.1578947	574.952381		1975.15	661.4545455	924.0555556		Þ	0	0		0	0	P	
	Minimum	Annular	Pressure	(bisd)		0	0	0		0	0	0		0	0	0		0	0	0	
2017 Quarterly Injection Report	Maximum	Annular	Pressure	(psig)		0	0	0		0	0	0		0	0	0		0	0	0	
Injec Q		Average	Annular	Flow (gpm) Pressure (psig)		0	0	0		0	0	0		0	0	0		0	0	0	
			Minimum	Flow (gpm) 1		6.5041667	1.2541667	4.2		92.925 35.904167	5.5708333	5.83333333		0	0	0		0	0	0	
			Maxium Flow	(mdg)		38.47083333	36.16666667	45.96666667		92.925	37.12916667 5.5708333	90.5333333 5.833333		0	0	0		0	0	0	
			Average Flow	(m d8)		20.1627451	20.47960526	16.76944444		57.60854167	19.29242424	26.95162037		0	0	0		0	0	0	
		Minimum	Pressure	(psig)		1500	1500	1600		1850	200	1700		0	0	0		0	0	0	
45-28653		Maximum	Pressure	(p sig)		2250	2250	2250		2300	2200	2290		0	0	0		0	0	0	
UICI-5-0 Agua Moss, LLC Sunco Disposal #1 30-045-28653		Average	Pressure	(b sig)		Jan-2017 1756.818	18 90	1817.391		2182.5	1975	Jun-2017 2069.545		0	0	0		0	0	0	
UICI-5-0 Agua Moss, LLC Sunco Disposal i						Jan-2017	Feb-2017	Mar-2017		Apr -2017	May-2017	Jun-2017		Jul -17	Aug-17	Sep-17		Oct-2017	Nov-2017	Dec-2017	

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00.045.08713 McGrefh SKC (001 leurington Gas Private Prugged 2 20n 1.2m j 777/2073 2136/14.1073/550 4.844	Burlington Gas Private Prugged 2 25n 12w j	Gas Private Plugged 2 29n 12w j	Private Plugged 2 29n 12w j	Plugged 2 29n 12w j	Plugged 2 29n 12w j	2 29n 12w j	12w j	-		973 213613	22	1.6	0.75550 &:	2 sxmud 4 964 sxmud	4 8.625	_	1526 5 str	5 semud \$508.330	3150 2	2020 12 sx mud 2136 340 surf	2 sx mud 340 surf	2020-2.13.6 2012-2.07.8		1998
3045-08797 Pre-Organd	Pre-Orgard		Southland	Sis	Private	Plugged	2	29n 1.	12w 8	g 4/14/15	4/14/1948 21.25	10					_	-		-				2/23/1984
30.045-30486	MCGRATH SRC	A001R	Burlington	ag B	Private	Physics Not. Released	2	29N 12W		3/23/20	3/23/2001 2235	8625	23 23	12 surf				28	2.875 22	2228 42	425 surf	2010 -2157		6/25/2010
30045-08793 Pre-Organd	Pre-Organd		Southern union	Gas	Private	Plugged	1	2.9N 11	12W E	E 3/16/19	3/16/1948 21 25							_		_				3/16/1948
30.045-08656 Cornell	Cornell	5	Energen Resources Gas	Gas	Federal	Plugged	1	2 SN 11	12W M		10/2/1955 29.96	6 8.625	5 97	75 surf				5.5		1950 100	100 surf	1711-1936		9/15/2005
30045-06823 W	Walker SRC	1	Burling ton	Gas	P rivate	Phugged	~	2 SN 12W	2WV G		2/25/1943 20 50	0 16	21	20 surf	5.5		29.30	3.5		2 050 172	175 surf	1938 - 1974		10/12/2009
3045-08711 Pre-Organd	Pre-Organd		Union Texas	Gas	Private	Plugged	m	2.9N 11	12W K	K 6/25/15	6/25/1955 29.40													11/10/1964
30.045-23758 Pre-Organd	Pre-Organd		Southland	Sas	Federal	Plugged	9	10 2.9N 12W		A 12/19/1980 1870	187	6												2/10/1984
30.045.08950	NOSON	~	Burlington	Sik	Federal	Plugged		34 3 0N 12W		P 7/17/19	7/17/1946 2137	7 15.5	38	20 surf		10 & 8.62 5 1618	1217 1618 99 surf	rf S.S		1961 4C	40surf	1728 -1 98 8 1962-2 00 8	2128	9/26/2008
3015-08955 Pre-Organd	Pre-Organd		Aztec O&G	Gas	Private	Plugged	34	3 CN	12W N		11/1/1944 29 65	10					_	_		_				10/29/1977
30-045-20140 Pre-Organd	Pre-Organd		Southland	NG NG	Federal	Plugged	35	30N 11	12W L		Hd 7961/1/6						_			-				6/9/1982
30-045-33573	30-045-33573 CORNELL COM	#5005	Burlington	Gas	Private	Plugged	2	29N 11	12W P	P 3/18/2005 2210	06 221	0	132	34 surf	6.25		2230	4.5		2198 275	279 surf	1754-1939 1743-1924		1/23/2013
30045-08844 KATTLER	KATTLER	1004	Burlington	89	Private	Plugged	2	29N 11	12W C	C 1/26/29-45 2069	45 206	0	846	surf	5.5		1960	3.5		2050 205	205 surf	1961-2:007		5/26/2012
30045-08709 MCGRATH	MCGRATH	#003	Burlington	Sas	Private	Private Plugged 3		29N 11	12W J		45 204	3/4/ 29:45 2040 13:375	75 675	2 surf	8.625 INT 1 5.5 INT 2		1460 4 surf 1928 58 surf	rt 35		2011 110 surf	0 surf	1872 -1 91 2 1922-1 93 7	1871-1876	3/1/2013

07/06/17 File Reference F262705.RED

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Gauge Identification

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Gauge Setup Parameters

WARY: WERE MER	BS+ LLC					PADE 1. OF II	COMPANY ADDA NO	125					PAGE 2 UP 11
L NAME HUNCH	(.OH CHER DE					DATE 27/06/27	WELL NAME - BUNG	I .DH CHER O					DATE . 07/04/11
LISCATION	SAN JUAN COOR	TT:. 5H				FILE RET F282705 HEL	WHILL MOCATION	SAN JUMP COD	CTY. 18				VILA MER VICTOS UN
Title D th.em.ss	Test Time	Preseure Paig	Temp Deg P	deltar PS1	Da. Fress Rel. to 14.7 PSI Atm.		Date Time HM/DD Libreman	Test Time	Pressure Felg	Temp Deg 7	deltap PH1	Comment	
				P51	Ga. Fress Ref. to 14.7 PSI Atm.							SA. Press set. to 14 7 sat Ate	
5 13-02-90 5 13:28/00	26.2000	00	104.00				06/20 13:49:45 06/26 13:50:00	47.7500	2941.13	89.53	34.29		
0 13,31,00	29.0000	6,77	103.99	a7%	PAREADED OF LUNKICATON		06/26 13:50:15	48.2500	3005.42	91.31	33.36		
6 13:31:30	29.2546	35.46	102.88	28 AM 903.01			06/26 13:50:30	48.5000	3040.77	92.20	35.35		
26 13:31:30	29.5000	1522.12	102.88	583.65			06/26 13:50:45	49.0000	3070.52	93.09 93.98	29.75		
6 13:33:30	31.5000	1534.09	98.87	11.97			06/26 13:51:15	49.2500	3127.41	94.88	31.87		
6 13:34:45	32.7500	1534.34	95.65	.25	SURFACE STOP		06/26 13:51:30 06/26 13:51:45	49.5000	3153.12	95.77	25.71		
6 13:35:45	33.5000	1559.49	92.30	3.35	SANAACE SIND		06/26 13:51:45	49.7500	3180.25	96.66	27.13		
09136185 B	24.0000	3972.86	91.04	13.17	BAN TANDON KLASS. MOMONT LINES.	All Wilder	06/26 13:52:15	50.2500	3242.13	98.38	29.04		
16 13/36/15	14 2500	1592 10	90.35	20,05			06/26 13:52:30	50.5000	3264.89	99.17	22.76		
26 13:36:30	34.5000	1632.49	90.17	12.48			06/26 13:52:45 06/26 13:53:00	50.7500	3290.50 3311.95	99.96 100.75	25.61		
26 13137100	35.0000	1656.46	88.51	33.97			06/26 13:53:00	51.2500	3329.96	100.75	18.01		
26 13:37:15	35.2500	1694.63	87.48	28.17			06/26 13:53:30	51.5000	3348.11	102.33	18.15		
26 13:37:30 26 13:37:45	35.5000	1718.72	86.49 85.49	24.09 18.23			06/26 13:53:45	51.7500	3369.54	103.12	21.43		
26 13:37:45	36.0000	1736.94	89.49	18.23			06/26 13:54:00 16:54 13:54:15	52.0000	3392.25	103.91	22.71		
26 13:38:15	36.2500	1776.85	83.51	21.68			01/26 13:54:30	50.5000	3422 78	106.49	10.07		
26 13:38:30 26 13:38:45	36.5000	1801.40 1819.79	82.52 81.53	24.55			00/20 13(50(45) 00/26 13(60:00	52,7500 63.0000	3441 90	100,29	13,12		
26 13:39:00	37.0000	1838.06	80.53	18.26			06/26 13:66:00	14 2500	3461.70	107.39	18.45	TANDEM BLEC NEMONY INST. # 44	08.1
26 13:39:15	37.2500	1859.90	79.55	21.84			00780 14100.00	V0 1005	3480.40	200,65	1.49	and the second s	
26 13:39:30 26 13:39:45	37.5000	1882.91	78.56	23.01 22.16			04724 14/02/15	60.2500	3479.86	97.60	- 14		
26 13:40:00	38.0000	1931.11	76.58	26.04			16/06 14:06:45 00/26 14 19:00	12.0000	3478.82	03.21	- 52	BEGAN INJECTING WATER	
26 13:40:15	38.2500	1963.43	75.89	32.32			HE-26 SA-10-20	73.VCCC	3540 53	48.33	54.47		
24 13 40 37	39,5000 38.7%00	1999 92	75,84	41.00			06/26 14:15:15	73.2500	3557.59	93.12 93.55	17.07		
26 13:41:00	39.0000	2088.29	75,13	46.70			06/26 14:15:30 06/26 14:16:00	73.5000	3568.93	93.55	11.34		
26 13:41:15	39.2500	2117.19	74.88	28.90			06/26 14:16:15	74.2500	3589.16	94.86	5.75		
26 13:41:30	39.5000	2139.49	74,62	22.30			06726 34(17)00	75.9000	3605.36	96.38	18.20		
26 13:41:45	39.7500	2160.50 2183.09	74.36 74.10	21.01 22.59			06/26 14:18:45	75.2500	3628.99	99.98	19.47		
26 13:42:15	40.2500	2206.53	73.85	23.45			06/26 14:20:00	78.0000	3643.76	103.13	14.77		
26 13:42:30	40.5000	2231.14	73.60	24.60			06/26 14:21:30	79.5000	3656.60	106.18	12.83		
26 13:42:45	40.7500	2256.03	73.34	24.90			06/26 14:24:30 06/26 14:24:45	82.5000	3676.32	107.61	19.72		
26 13:43:15	41.2500	2302.97	73.21	23.48			06/26 14:29:30	87.5000	3694.48	104.44	17.43		
26 13:43:30	41.5000	2323.38	73.61	20.41			06/26 14:33:15	91.2500	3705.61	101.32	11.14		
26 13:43:45	41.7500 42.0000	2343.79 2362.18	74.01 74.41	20.40 18.39			06/26 14:37:45 06/26 14:43:30	95.7500 101.5000	3717.75	98.20 95.11	12.14		
26 13:44:15	42.2500	2378.70	74.81	16.52			06/26 14:52:45	110.7500	3747.23	92.09	16.34		
26 13:44:30	42.5000	2402.97	75.21	24.28			06/26 15:10:15	128.2500	3766.77	89.93	19.54		
26 13:44:45 26 13:45:00	42.7500 43.0000	2435.00 2467.03	75.61 76.01	32.03			06/26 15:10:30 06/26 15:32:30	128.5000	3767.07 3786.76	89.92 89.63	.30		
26 13:45:00	43.2500	2491.87	76.41	24.84			06/26 15:32:30 06/26 15:32:45	150.5000	3786.76	89.63	19.69		
24 13(49)30	43.8000	2010 24	78/85	21.39			06/26 15:59:00	177.0000	3802.99	89.88	16.10		
26 13 46 00	44.0000	2534.51 3555.89	77,21	21.20			06/26 16:25:00	203.0000	3817.32 3828.78	90.11	14.33		
26.11.86.115	84.2800	3591.56	78/26	25.84			06/26 16:51:00 06/26 17:17:00	229.0000	3828.78	90.27	11.46 9.02		
26 13:46:30	44.5000	2612.10	79.04	30.85			06/26 17:43:00	281.0000	3845.63	90.41	7.83		
26 13:46:45	44.7500	2641.36 2666.60	79.82	29,26			06/26 18:09:00 06/26 18:39:00	307.0000	3852.70 Jens 71	90.45 80.48	7.07		
26 13:47:00	45.2500	2666.60	80.60	25.24			06/26 18:35:00 06/28 13:01:00	323.0000	3058 71	90.48	4.40		
26 13 47:30	45.5000	2724.22	82.17	30.24			06/26 19:27:00	395 0000	3866 16	80.67	5.94		
26 13:47:45	45.7500	2743.26 2765.02	\$2.95 \$3.74	19.04 21.76			16/36 19:53:00 06/26 20:19:00	411 0988	3859 17	16 5 90 51	3.01		
26 13:48:00	46.2500	2765.02	84.52	21.76			06/26 20:19:00 06/26 20:45:00	437.0000 463.0000	3872.32 3875.20	90.51 90.52	3.15		
26 13:48:30	46.5000	2813.83	85.31	25.48			04/26 21:11:00	489.0000	3476.12	90,54	2,40		
26 13:48:45	46.7500	2836.57	86.09	22.74			NR/20 21 11.00	\$15.0000	3003.25	90.55	2.32		
26 13:49:00	47.0000	2859.60	86.88	23.03			06/26 22:03:00	541.0000	3884.42	90.58	3.17		
26 13:49:30	47.5000	2906.89	88.64	25.21			06/26 22:55:00	593.0000	3890.15	90.61	2.83		
38						9/5	39						9/5

LL NAME : BUNCO SWD NO. 1 LL LOCATION : SAN JUAN COUNTY, NM	FAGE 3 OF 11 DATE 07/08/17 FILE REF, F262705, RED	TERMANY, AND HOM, LLC MELL NAME - SURCE MAR MEL. 1 MELL LOCATION - SAN JUNN EDITORY, INC	PAGE = 27/28/41 DATE = 27/28/41 FILE REF = 72/28/81
te Time Test Time Pressure Temp deltaP /DD hhimise manning Daig Deg N Pai	Commant. Da. Press Pat. 10 14-7 MpC ALM.	Data Dime Shat Time Pressure Temp deltaD Com MM/DD blivmine mineme.mme Paig Leg P Pai Da. 06/28 02:22:00 2240.0000 3949.75 83.33 -13	ent Press Ref. to 14.7 Dei Atm.
7/14 7/14 <th< td=""><td></td><td>Bit III Bit IIII Bit IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</td><td>NTE DARETIN AUDI</td></th<>		Bit III Bit IIII Bit IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	NTE DARETIN AUDI
28 00.38:00 2136.000 3950.17 84.16 - 00 28 01.04:00 2136.000 3950.12 83.81 - 05 80 01:30:00 2188.0000 3949.93 83.57 - 19 28 01:56:00 2214.0000 3949.88 83.42 -,05		06/29 03/25:00 3743.0000 3745.78 50.21 -3.01 06/29 03/51:00 3745.700 3745.79 50.28 -3.06 06/29 04:17:00 3795.0000 3742.65 90.34 -3.07	
40	9/5	41	9/5
NRÁNY, AGUA MOZÉ, LAZ LL NAME I SUNCO SMO NO. 1 LL LOCATION I SAN JUAN COUNTY, NM te Time Test Time Pressure Temp delta?	VNNE 2 0P)) DATE : 07/06/17 FILE KEF: F242705 WED Comment	COMPANY ADDA MESS. LLC MELL RAME SONCO SMO RO I MELL RAME SONCO SMO RO I MELL RAME SONCO SMO ROMANY, MA DALE TIME TABLE TIME PREASURE Tamp deltap Comm	
z Time Test Time Pressure Temp deltaP 20 Minum:se Pelg Deg Pei 29 04:43:00 3821.0000 3739.72 90.40 -2.93	Comment DA, Franke Wef. to 14.7 Fai Atm	994/DD Nhimmese menemen menem Paig Deg P Pai da. 09/30 08:53:00 5511.0000 3624:03 91.79 -1.17	ni Trese Het. Lo 14.7 Pel Alm.
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		00430 09.19.40 5837.000 3622.42 91.41 -1.21 06430 09.19.40 5837.000 3622.45 91.41 -1.22 06430 09.19.40 5843.0000 3621.45 91.41 -1.24 06430 101.11.00 5843.0000 3621.45 91.44 -1.26 06470 10.11.00 5844.0000 368.69 91.44 -1.26 06470 10.11.00 5844.0000 368.69 91.44 -1.26 06470 10.10 5847.0000 365.47 91.44 -1.27 06470 10.21.00 365.167 91.44 -1.27 06470 12.41.00 363.167 91.46 -1.27 06470 12.41.00 363.167 91.46 -1.27 06470 14.70 544.000 363.167 91.46 -1.28 06470 14.70 547.000 371.900 371.90 -1.48 06470 342.100 3451.400 91.49 -1.48	

MEANY) ADUA MOES, LUIC LL HAME SCHOOL BHD BD 2		#WNS = DP 11 DATE : 07/04[]]	COMMANY ACTIA HORE, LLC WELL NAME : SUNCO SHO NO. 1	9600 # 0F () DATE : 07/06/17
LL ESCATION (SAN JURA COURTY, SAN te Time Test Time Pressure Temp	deltaP Comment	TTIA BEP FEADIDS.WED	WELL LOCATION : SAN JUAN COUNTY, NM Date Time Test Time Pressure Temp deltaP Comment	FILE REF: F26270
/DD hh == as Peig Deg (/D1 13103100 /201.0000 3561.07 92.00	PRI Da Press Ref 10 14.7 Pai Ate			Ref. to 14.7 PBi Atm.
Add 13.28.4 00 7227,0000 3466.77 72 72 Add 13.28.4 00 7227,0000 3459 347 72 72 Add 14.1 00 7227,0000 3484 947 72 72 Add 14.1 00 7227,0000 3484 947 72 72 Add 14.1 00 7231,0000 3587,28 72 72 72 Add 731,000 7333,0000 3565,53 72 72 72 72 74	- 71 - 72 - 72 - 72 - 73 - 73 - 73 - 73 - 73 - 73 - 74 - 74 - 74 - 74 - 74 - 74 - 74 - 74		0*/02 17.3.8.00 1817.0000 3313.4.01 18.2.24 56 0*/02 18.0.1.00 1893.0000 3313.4.01 18.2.24 53 0*/02 18.0.1.00 1893.0000 3313.4.01 19.2.24 57 0*/02 18.0.1.00 1893.0000 3313.4.01 19.2.24 57 0*/02 19.4.1.00 1903.0000 3313.4.7 19.2.24 60 0*/02 20.4.1.00 1903.0000 3314.4.7 19.2.24 53 0*/02 20.4.1.00 1903.0000 3314.1.7 19.2.24 50 0*/02 21.3.1.00 1817.0000 3131.1.61 19.2.77 47 0*/02 21.3.1.00 1817.0000 3131.4.7 19.2.77 45 0*/02 21.3.1.00 1817.0000 3131.4.7 19.2.77 45 0*/02 21.3.1.00 1817.0000 3131.4.8 22.2.7 45 0*/02 21.3.1.00 1817.0000 3101.4.8 22.2.7 45	
44 44 EXAMPLE AND	42	95 MAGE & OP 13 MATE \$7/M/25	07/03 20:57:00 10555.0000 3487.45 92.36,45 45 Соммалтт: Алла може, 110 мещ. плет. 5 сако мо мо, 1	97 PAGE 13 OF 1 DATE - 07/94/13
LL LOCATON SAN JULA COUNTY, NM 58 Time Test Time Pressure Temp	deltas Comient	WILL MEP. FEEXTON /MAX	WELL LOCATION : SAN JUAN COUNTY, NM Date Time Test Time Pressure Temp deltaP Comment	FILE REF: F26270
UTD: 10. norm. ab memory. norm. Psig Psig (2) 11.23.00 10.85.000 3447.03 12.3.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	34 41 37 37 37 33 40 36 36 36 40 40 29		PH/LOD bhi ms.as memmer, mem Paig Deg F Pail Oa. Dress 07/05 01.33.00 12271.0000 3442.04 52.43 -41. 07/05 01.33.00 12271.0000 3441.07 52.43 59 07/05 02.251.00 12232.0000 3441.36 52.43 39 07/05 02.251.00 12232.0000 3440.47 52.44 30 07/05 02.151.00 12323.0000 3440.47 52.44 30 07/05 03.440.00 124.4 31 31 07/05 03.450.00 1342.7 52.44 33 07/05 03.450.00 1342.7 52.44 33 07/05 04.100 1242.000 1459.78 52.44 33 07/05 04.31.00 1345.700 1342.4 24 33 07/05 04.31.00 1345.700 1345.4 12.45 33 07/05 04.31.00 1345.7 12.45	

: AGUA MOS	

WELL NAME : SUNCO SWD NO. 1

WELL LOCATION	BAR JOAN COD	NT2_ IN				File MEF, 1242755 622
Date Time	Test Time	Pressure		deltaP	Comment	
MM/DD hh:mm:##		Psig	Deg F	Psi	Ga. Press Ref. to 14.7 Pai Atm.	
07/05 08:41:00		2133.02	91.08	-48,47		
07/05 08:41:15		2085.99	90.54	-47.03		
07/05 08:41:30		2032.63	90.02	-53.36		
07/05 08:41:45		1988.87	89.48	-43.76		
07/05 08:42:00		1971.59	88.96	-17.28		
07/05 08:42:15		1968.22	88.43	-3.37		
07/05 08:43:45		1968.63	84.79	.41		
07/05 08:45:00		1967.69	81.59	94		
07/05 08:46:15		1966.91	78.54	78		
07/05 08:48:30		1966.31	75.34	60		
07/05 08:49:15		1966.05	74.38	26	STOP @ 1000'	
07/05 08:49:30		1941.62	74.08	-24.43		
07/05 08:49:45	12707.7500	1912.80	73.77	-28.82		
07/05 0R:50:00	12708.0000	1858.70	73.46	-54.10		
07/05 08:50:15	12708.2500	1801.72	73.16	-56:98		
07/05 08:50:30	12708.5000	1743.16	72.85	-58.56		
07/05 08:50:45	12708.7500	1687.03	72.55	-56.13		
07/05 08.51.00	12709.0000	1646.12	72.26	-41.91		
07/05 08:51:15	12709.2500	1600.33	71.94	-44.78		
07/05 08:51:30	12709.5000	1560.00	71.64	-40.33		
07/05 08:52:00	12710.0000	1542.97	71.02	-17.03		
07/05 08:52:15	12710 2500	1529.97	20.52	-13.10		
07/05 08:56:15	12714.2500	1514.26	70.47	-15.61	SURFACE STOP	
07/05 08:56:30	12714.5000	1492.29	70.71	-21.97		
07/05 08:56:45		29.03	70.95	-1463.26		
07/05 08:57.05		.01	71.19	-29.02		
07/05 09:00:15		.01	74.35	.00		
07/05 09:05:00		.01	77,79	.00		
07/05 09:13:00		.01	80.81	.00		

		· EVENT SUMMARY ·		
DHEAST ACCA NO	BE LLC			PADE B1
WILL NAME SUNCC	BHD 90-1			DATE 07/00/21
WILL LOCATION S	AN JUAN COUNTY, N	h.		VILL NUT VILLIVON NOD
ats Time		Yey Event.	Preseire	Tesp
M/DD hhimmiaa m			Palg	Deg F
		***************************************	*************	
6/26 13:31:00	29.0000	PRESSURED UP LUBRICATOR	8.77	103.44
8/26 13:25:30	13. 5000	SURFACE STOP	1349.74	NX 3.0
1/34 13/36-20		TANDEM ELEC. MEMORY INST. 10 WELL TANDEM ELEC. MEMORY DEST. # 4400	1512.85	N1. 24 TOX TO
6/24 13:88:10	14.2800 72.5000	BEDAS INCECTING WATER	1488 2h	41.21
6/26 14114:00				
6/28 18/55 45	3113.9400	STOFFED INJUCTING WATER	3824 47	89.03
8/88 16 16 00		BEDAS FALL-DEF TEST ESDED FALL-DEE THET / INST. DEF NOTTOM	1033.76	35.43
7/06 QB/10-16				
00/05 28/19(00		310% # 44400	1275-75	254 47
	12667.2000	STOP # Alone	2844-07	108.84
7/05 58:39:30		\$70P # 2000'	2411.95	93.16
7/05-38/49:58		BTOP = 1000/	1944 05	294.33
17/05 08:54:15	12114.2802	FURFACE STOP	1618-26	76-47

EVENT SUMMARY

COMPANY : AGUA MOSS, LLC WELL NAME : SUNCO SWD NO. 1 WELL LOCATION : SAN JUAN COUNTY, NM

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PAGE : B1 DATE : 07/06/17 FILE REF: F262705.DAT

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9/5

PAGE 11 OF 11

DATE : 07/06/17

	Test Time	Key Event	Pressure Psig	Temp Deg F	
06/26 13:31.00 30/26 13:33:05 30/26 13:35:05 30/26 13:15:0 30/28 13:15:0 30/28 13:15:0 30/28 16:14:00 30/28 16:14:00 30/28 16:14:00 30/28 16:14:00 30/28 16:19:00 07/25 08:19:00 07/25 08:19:00 07/25 08:55:00	29.0000 13.0000 14.0000 14.0000 14.0000 14.0000 14.0000 12677.0000 12677.0000 12677.0000	PRESSURED UP LUBRICATOR SURFACE STOP RAN TARCEME ELSC. MEMORY LRST. 10 WELL TARDEM KLAC. MEMORY LSTT. # 4(0)	8.77 1534.06 1572.88 1480.81 3478.60 3957.84 3951.56 3457.00	103.44 94.87 95.18 96.14 196.14 88.00 98.16 92.44 114.67 109.00 93.81 74.63	

Company: ADUA MOSS, LLC Well: SUNCO SHD NO. 1 Field: PUBT LOOKOUT & Ingunes: MEL TEPTILLE Using Appen ELECTROPIC Dauge Appen 9 5000 Gauge Depth: 4405 ft Serial No.: 242	SHATTON .	SLACP	SHUT IN	
Tubing:	TO 4282' TO TO	0il Leve H2O Leve		
Shut-in BMP 3481 0 Shut-in WHP 1523	4405 ft Shi Shi	ut-in WHT 0	F @ 0 ft F	

	MD	TVD	PRESSURE	PSI/ft
1	4405	4405	3481.00	
2	4405	4405	3457.00	0.000
3	4000	4000	3279.00	0.440
- 4	3000	3000	2846.00	0.433
5	2000	2000	2405.00	0.441
6	1000	1000	1966.00	0.439
7	0	0	1523.00	0.443

WATER LEVEL @ SURFACE

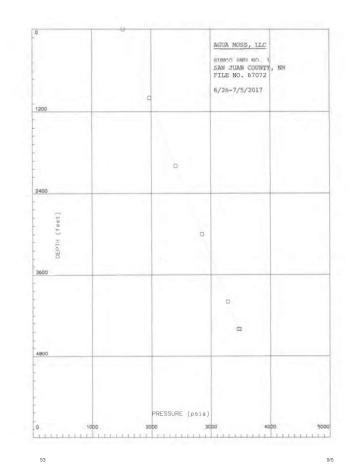
51

49

Well: Field: Enginee Hauge T Gauge R	SUNCO FOINT E: NEIL Ype: FL ange: 0 opth: 4	405 81		BLACE DALE Weill Vest Stati	Type: Type: Type:	SAN JUAN NEW MEXI 06/26/20 DISPOSAL DEADISHT SHOT IN 67072	17	
Tubing:	2-7/8*	TO	4282'					
Tubing:		TO						
Casing:		TO		-01	L1 Lev	1.48		
	.4350' -				20 Lev			
Shut-in Shut-in		3481 @ 1523	4405 ft	Shut-in BH7 Shut-In WH7			0 ft	
				T	Tefce	ller Inco	rporated)	
# HD	779/17	PRESSURE	PST/It					
-1 440		3481.00						
	5 4405		0.000					
	0 4000		0.440					
		2846.00						
		2405.00						
5 100	0 1000	1966.00	0.439					
- 10 C	0 0	1523.00	0.441					

WATER LEVEL & SUPFACE

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SP-2000

Downhole Memory Pressure Gauge

The SP-2000 downlible memory pressure gauge is controlled by an internal interoprocessor and powerful software. The EP-2000 can stay downhole and collect data for hours of days; depend on your application. It is similar and operates fully from balany power. lad

The microprocessor is capable of detect the somed pressure and tangentium en adjust the sampling rule autonetically (once programmed for the test the some adjust the sam (once program "Bration).

appresence). The SP-2000 is tough, dependiatin, almpin and incilligent. If your plot negutine gauges that are reliable yet? togged and simple for use, the SP-2000 instructory gauge, with the Hylind Sumtry example in the one key pp: R IS 30 simple The's paper citip can be used to programs it by changing the anthon's settings for the Type and Doubles of famil.

With the use of our simple, mean driven software, you can nitrieve and report the parage date (using a competible competer and printer) from the two occur it is restored from the well.

d reporting metaites are evaluated and reporting features and most of the standard

Micro-Smart Systems offers excepted Weil Test Interproteitios, utilizing Facted F-A.B.T. Weil Test¹¹⁰ software. This control static of the ant advance include data proparation, variotes analysis methods, analysical reservoir modeling and detivenability. Micro-Smart Bystems is the SMART choice for culting-wrige lacknology and suphrior culting-wrige lacknology and suphrior culting-wrige lacknology and suphrior culting-wrige lacknology and suphrines suphrited and belog you keep your customers subatted SMART Features: The technological features of the SP-2000 are:

SP-3000 area - David ESP/ROM Memory - Tool parforms belowed below to define a so againsf to credit rependion - Martine Control and a storage translation - Martine from the storage - Control from memory to fill of gauge webs attraje mediate storage - Control them With Micro-Simer's production - Control them With Micro-Simer's production skripte module strange Competitive with Micro-literative production logging basis = Bindhar ASCH data stonage kernet = Bindhar ASCH data stonage kernet of a compatie = Selectuble programming enhance the same of a compaties = Selectuble selections for duration in DAYS and TYPE of TEST Coalaber sempatier programming

- up to 15 time programming - up to 15 time periods - specify time interval, and participan el, sempling rais, and & P



Trains "IMART AND SIMPLE"

Direct and a

Få



ACCURACY VERIFICATION 5-February-2014

SP-2000 Gauge Model Gauge S/N 162 Pressure Range 5 K Accuracy 0.05% Full Scale

Applied Recorded Pressure Pressure Difference psig psig psi Percent (%) 0.01 0.71 0.70 0.0139% 774.08 774.96 0.88 0.0177% 1498 24 1499.12 0.88 0.0176% 2222.36 2222.99 0.63 0.0126% 2946.53 2947.04 0.51 0.0102% 3670.66 3671.23 0.57 0.0113% 4394.87 4395.53 0.66 0.0133% 5119.00 5119.94 0.94 0.0187% 4396 16 3671.99 4394.87 1.29 0.0258% 3670.66 1.33 0.0265% 2946.53 2947.97 1,44 0.0287% 2222.36 2223.84 1.48 0.0296% 1498.24 1499.73 1.49 0.0299% 774.08 775.18 1.10 0.0220% 0.01 0.25 0.0049% 0.24

Oven Temperature: 144.7 °F

Sman Gauge Calibration accuracy is confirmed.

55

Calibrated with RUSKA Pressure Standard, model # 2451-700-00 Sorial #26018, Mass Set Serial #25008 Componented to focal acceleration due to gravity

Verified by: CM

Probe Temperature:

144.7 °F

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May 09, 2016 Thomas Long Enterprise Field Services 614 Reilly Ave. Farmington, NM 87401 TEL: (505) 599-2141 FAX

RE: Chaco Plant

Dear Thomas Long:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/15/2016 for the analyses presented in the following report.

Hall Ensteamental Analysis Laboratory 4901 Hawkins NS dimunaryon: NM 8710 282, 505-345-3978 FAA: 808-345-4442

OrderNo.: 1604674

These were unalyzed 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 impertative that your review this report in the entrety. See the sample checklist and/or the Chan of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a entrative 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 simulit be reviewed. All samples are required, as received, unless otherwise indicated. Lab measurement of analyses considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed ouiside of the recommended holding time,

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

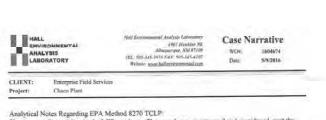
ADHS Cert #A20682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

District J 1625 N. Fransis Dr., Holds, Mid 80240 (20053-31	State of New Mexico Energy Minerals and Natural Resource	Form C-13
TMT W. Guand Avenue, Vineaia, NM #ET10 District, III 1000 Ein Brussen Band, Azum, NM 87310 DuniteTIV 1249 S. & Francis Dr., Santa Fe, NM 87505	Oil Conservation Division (220 South St. Francis Dr. Santa Fe, NM 87505	Stardare Waste Management Facility Howards and Generator shall maintain and order shi documentation available for Division in a store
	T FOR APPROVAL TO ACCEP	T SOLID WASTE
1. Generator Name and Address: Enterprise Field Services, LLC, 614 Re		
2. Originating Site: Chaco Gas Plant		
 Location of Material (Street Addre UI. M Section 16, T26N, R12W; 36.44 	56, City, State or ULSTR): (2905, -108,119193, San Juan County, NM	
Bentsleitling Von Enmissibles Hermiter	t WasteWater Tanks and from the compressor ski as Water from the compressar skida, nowa Volume (to ke entered by the operator at the	
	TOR CERTIFICATION STATEMENT OF V	
Generator Signature certify that according in the Resource Ca	e or authorized agent for Enterprise Products Oper intervation and Recovery Act (RCRA) and the US rifed wester is: (Clasch the appropriate abasis feati-	Environmental Protection Agency's July 1988
C RCRA Exempti Oil field waster	s generated from oil and gas exploration and prod hy: Wasne Acceptance Frequence [] Monthly	action operations and are not mixed with pon-
RCRA Non-Exempt: Oil field a	wasie which is nun-fazardous that does not exceed regulations, 40 CPR 263 31 (20) 36, or fixed has ing documentation is attached to demonstrate the	d the minimum standards for worke hazardoos b autous wante as defined in 40 CFR, part 261,
MSDS Information S RCRA Haz	rardous Waste Analysis 🖾 Process Knowledge	Other (Provide description in Box 4)
GENERATOR 19.15.36.15	WASTE TESTING CERTIFICATION STAT	EMENT FOR LANDFARMS
1, Thomas Long , representat Generator Signature the required testing/tign the Generator W	eve for Enterprise Products Operating authorize in	a complete
the required resting sign the creates and w		
have been found to conform to the speci-	tative for <u>Agna More</u> , LLC aste have been subjected to the pater Ofer terr and lie requirements applicable to landlarms parsuant at la demanstrate the above-described waste confe	In Section 15 of 19 15,36 NMAC. The resalu-
5. Transporter: Triple S Trucking		
OCD Permitted Surface Waste Mana	agement Facility	
Name and Facility Permit #, *Agua M Address of Facility, SW/4 NW/4 Socia	lean, LLC - Permit 5: NM-61-689 an 2, Township 29N, Range Crouch Mesa, NM	h-
Method of Transmost and/or Dispensi- Traporation 🔯) Waste Acceptance Statust	,	🗌 Landfill 🔲 Other
tions marphane plant		HED (Must Be Maintassed As Permanent Reco
PRINT NAME GARDE MAT IN	mile Superin	tendent DATE 12/17



Analytical Notes Regarding EPA Method 8270 TCLP-The recovery for pyridine in the LCS was low. The sample was reextracted and reanalyzed, past the holding time, and the initial result, ND, was confirmed.

2017

Hall Env	iro	nmental Analys	is Labors	itory, Inc.			Auglyfical Repart Lan Order 1664674 Duie Reported: 5/9/2011	e.	
CLIENT: Enterprise Field Services Project: Chaco Plant Lab ID: 10046744001			Collection			Date: W	he ID) Air Dy Dessicant Date: 4/14/2016 10:08:00 AM Date: 4/15/2016 7:20:00 AM		
Analyses			Result	PQL Qual	Units	DF	Date Analyzed	Batch	
MERCURY,	TGL	,					Analyst	pmf	
Miroury			(NO	0.020	inst	1	1/28/2016 3:56:44 PM	24004	
EPA METH	OD 6	010B: TCLP METALS					Analyst	MED	
Areanic		Contraction and the second	ND	5.0	mail	1	4/25/2016 11:02:11 AM	24953	
Banium			ND	100	marc	1	4/25/2016 11:02:11 AM	24955	
Cadmium			ND	1.0	mgiL	1	4/25/2016 11:02:11 AM	24953	
Chamlan			ND	5.0	molL		4/25/2016 11 02 11 AM		
Loui			ND	5.0	mgr		4/25/2016 11:02:11 AM	21063	
Selenium			ND	1.0	mal	1	4/25/2016 11:02:11 AM	24953	
Silver			ND	5.0	mol	-1	4/25/2016 11:02:11 AM	24953	
EPA METH	00 6	270G TOLP		-	100		Analyss		
2-Melhylph			ND	200	mol	1	1/22/2016 5:24:22 PM	24921	
314-8407-14		1	NO	200	molt	1		24621	
Phonoi	print.		ND	200	mg/L	1	4/22/2016 6:24:22 PM	24821	
2,4-Dinitrot	oluene		ND	0.13	mg/L	1	4/22/2016 6:24:22 PM	24921	
Howenced			ND	0.43	mg/L-			24831	
Historican			NU	0.60	mg/L		4/22/2016 0:24/22 PM	24821	
Hexachioro	ethan		ND	3.0	mg/L	1	4/22/2016 6:24:22 PM	24921	
Nivobenzer			ND	2.0	mg/L	1	4/22/2016 5:24:22 PM	24821	
Pennachlore	rener	of l	ND	100	mp/L	1	4/22/2016 6:24 32 PM	34921	
Pyridwe			ND	5.0	mart	- 1	4/22/2016 6:24:22 PM	24621	
2,4,5-Truh	oroper	enul	ND	400	mg/L	1	4/22/2016 6:24:22 PM	24921	
2,4,6-Trichl	loroph	enol	ND	2.0	mg/L	1	4/22/2016 6:24:22 PM	24921	
Crescie, To	2.41		NILY	:200	ingit.	1	4/22/2010 0:24:22 PM	24621	
Sum 2-F			66.1	10-121	Hilten	1	4/22/2010 0:24:22 PM	24921	
Surr: Phe			41.6	31.8-117	%Rec	1	4/22/2016 6:24:22 PM	24921	
		ramaphting	10, †	31.3-139	WRING	1	4/22/2018 8:24:22 PM	24921	
Sur MD			77.6	43(2)-128	AiRie		4/22/2016 6:24/22 PM	24921	
Sur 24			73.T	58,4-114	WHEE	1		24921	
Sur 4-T	athie	nyi-ora	60.0	17:4-141	THRE.	- U	A020/2016 0/24/22 PM	24021	
EPA METH	00 8:	2608: TCLP COMPOUN	DS				Analyst	DJF	
Benzere			NO	0.50	Distri-	10	4/18/2016 1:22 16 PM	24838	
1.2-Didnin	neiher	e (EDC)	ND	0.50	ppm.	10	4/18/2016 1:23:16 PM	74835	
2-Bulanona	600		ND	200	ppm	10	4/16/2016 1:23:16 PM	24836	
Carbon tetra	achior	ide	ND	0.50	ppm	10	4/18/2016 1:23:16 PM	24836	
Chickhiler	wee .		NO.	100	0000	10	4/18/2016 1:23:16 PM	24536	
Diferelemi			MO	6.0	Population of Contract of Cont	10	MIN AL ROT BEDONIS	248.66	
1,4-Dishlore			ND	7.5	(ppm)	10	4/18/2016 1:23:16 PM	24838	
1.1-Dichion	milier	e	ND	0.70	ppen	10	4/18/2016 1:23:16 PM	24030	
Refer	to the	e QC Summary report a	nd assupte by	çin ahozklışı far ü	agged QC	data and p	reservation information		
Qualifiers		Value exceeds Maximum C	onteningent I		is Analyte	descent in a	he associated Method Blank		
dammenter.	D	Sample Diluted Due to Mat				bove quantit			
	11	Holding must fir preparate			T Autiste	driaroad hall	ne quantization limits Page	-	
	ND	You Descend a the iligants			P linesk	pill Mrs In R	Page	20[14	
	R	RPD mitside accepted record				ng Detection			
	5	5% Receivery retries of card					uperature is out of femil as a	helling	

Hall Environmental Analy	sis Labor	atory, In	ic.		Å	Analytical Report Lab (Inder 1604674 Date Reported: 5/9/2010	
CLIENT: Enterprise Field Services Project: Clasco Plant Lab ID: 1604674-001	Matric	SOLID	Cu	dection	Date: 4/1	Dy Dessient 4/2016 10:08:00 AM 5/2016 7:20 00 AM	
Analyses	Result	PQL	Qual E	nits	DF	Date Analyzed	Batch
SPA METHOD 82508" TOLP COMPOS	INDS			-		Analyst	DJE
Tetrachiccostment (PCE)	NO	0.70	0	iprix.	10	4/15/2018 1:23:10 PM	24658
Trichkspottena (TCE)	ND	0.50		DOM:	10	4/16/2016 1:23:15 PM	246.3
winyt chilonge	ND	0.20		(m)	10	4/16/2016 1:23:16 PM	74638
Sur: 1,2-Dichloroetham-d4	104	70-130		LRen:	10	4/18/2016 1.73 15 PM	24536
Sum 4-Browofiuorocienzerwi	105	70-130		Rec	19	4/16/2016 1:23:10 PM	2483
Surr. Dibromofluoromethane	103	70-130	7	Rec	10	4/18/2016 1:23:15 PM	2483
Surr: Toluene-d8	99.8	70-130	9	(Rec	10	4/18/2016 1:23:16 PM	24836

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

Analytical Report Lan Order 1604674

Date Reported: 5/9/2016

Hall Er	vironmental Analys	sis Labora	atory, Inc.			Analytical Report Lab Order 1604074 Date Reported: 5/9/201	
CLIENT: Project: Lak ID:	Enterprise Field Services Chaos Plant 1604674-002	Mately	AQUIROUR	Collection	Date: 4/	n Exempt Tank 4/2016 10:45:00 AM 5/2016 7:20:00 AM	
Analyses		Result	PQL Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 8270C TCLP				-	Analyat	DAM
3-Mailtyly	sand	7407	200	mpi.	τ.	#72/2010 0:54 25 PM	24521
3+4-Melh	ylohenol	ND.	290	mark	1	4/32/2018 8:54:25 PM	24921
Prenol		ND	200	mart	1	4/22/2018 6:54:25 PM	24621
2.4.0900		MD	0.15	ngh	a.	1/33/3016 8-64-95 PM	34531
Hexachio	obenzenii	NO	0.13	mg/L		4/33/2016 6:54:25 PM	24921
	novinciene	ND	0.50	mg/L		4/22/2018 6:54 25 PM	24921
Headyla		NO	3.0	mg/L	1	4/22/2016 6:54:25 PM	24921
Nitrobesta		ND	2.0	mig/L:	1	4/23/2016 0:54:25 PM	24921
Dantachic	rophenal	ND	100	mg/L	3	4/22/2016 0.54.20 PM	24921
Pyridine		ND	5.0	mg/L	1	4/22/2016 6:54:25 PM	24921
	Norophenol	ND	400	- Jimm	1	4/22/2016 6:54:25 PM	24921
	N0/0phenol	Alth-	2.0	mgit		4/22/2016 0.54.25 PM	24021
Cresols, 7		ND	200	mg/L	1	4/22/2016 6:54:25 PM	24921
	Fluctophenet	44.8	15-124	%Rec	1	4/22/2016 8:54:25 PM	26921
	hinol-d5	33.4	15-118	16 Rein	. 1	4/22/2016 0:54 25 PM	24921
	& B-Tribrimophenol	74.6	15-148	%Place	*	4/22/2016 8:54:25 PM	24921
	Robenzene d5	64.0	40.6-124	%/Rec	- t	4/22/2016 6:54:25 PM	24921
	Fluorobiphenyl	67.4	35.7-128	%Rec	1	4/22/2016 6:54:25 PM	24921
Sur 4	Terphonyl-d14	Serv	18 8-115	BARC	1	4/22/2016 0:54:25 PM	24921
EPA MET	HOD 7479: MERCURY					Analysi	pmf
Military		0.0033	100020	mail		3/29/2018 11:25.07 AM	7800EE
	B: TOTAL RECOVERABLE N	METALS				Analyst	MED
Arsenic		NE	5.0	mgL.	- E	4/29/2016 11:45:10 AM	24977
Bariam		ND	100	mail	- 1	\$/5/2016 8:45:25 AM	24977
Commission		ND	1.0	mail	1	5/5/2016 8:45:25 AM	24977
Chromium		ND	5.0	mgL	1	5/5/2016 8:45:25 AM	24977
Lead		ND	5.0	met-	1	4/29/2010 11:45:10 AM	
Seleniore		MD	1.0	mpt	1	5/5/2016 8:45:25 AM	24977
Saver		NO	3.0	mpL	1	5/5/2016 B:45:25 AM	94977
CLP VOL	ATILES DY 02600			1.0		Analyse	NIE
Benzend		ND	13.50	mig/L	÷.	4/26/2010 9:15:00 PM	01180
1,2.0kHo	(deltrane (EDC)	ND	0.50	mark	1	4/26/2018 9 15:00 PM	83380
2 Bulances		NO	10	mort.	1	4/20/2016 9.15:00 PM	PLANED.
Carlon Te	wwohlovide	NO	0.50	THE	- 1	4/74/2016 9 15 00 PM	BILSHO!
Chikkloform	n	ND-	8.0	mg/L	1	4/28/2016 9:15:00 FM	B33807
1.4-Dichio	echerrateria-	HD.	7.5	mpiL	. 5.	4/26/2010 9:15:00 PM	033007
1.4-Cichle	Pooliterus:	ND	0.70	mal.	1	42W/2016 9:15:00 PM	833807
1HOOR CONTRACT	obx/tadiene	ND	0.50	mail	1		833803
	r to the QC Summary report i	and the second second					

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services Project: Classy Plant Lat. ID: 1604574-002	Mateix	AQUINOUS	Collection	Date: 4/	en Exempt Tank 14/2010 10:45.00 AM 15/2016 7/20:00 AM	
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch
TELF VOLATILES BY 82608	-				Analyst	DJF
Tetractionostiama (PCE)	NO	0.20	mail		4/20/2016 9:15:00 PM	B39807
Trichsorpethese (TCE)	1403	0,59	not	. 1	4/26/2016 9:15:00 PM	B33807
Vinyl chinnula	NO	0.20	ngt.	1.1	4/26/2016 9:15:00 PM	B33807
Drivarablecasilie	1003	100	-maA		4/26/2018 9:15:00 PM	B3380
Sun 1,2-Dichoromana-d4	101	70-130	%Rec	1	4/26/2016 9:15:00 PM	B33807
Sun 4-Bremultusetaenzene	100	70/130	16Rec	1	4/26/2016 5:15:00 PM	833807
Sur, Diskonofluciomilihume	104	/0-130	TERME		4/20/2010 IK15:00 PM	B3380)
Surr: Toluene-d8	94.2	70-130	%Rec	1	4/26/2016 9:15:00 PM	B33807

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

14 U.S.

 Qualifiers
 Constraint (report and many region constraint)
 Images (2)
 Constraint (report and many region constraint)

 Qualifiers
 Constraint (report and many region constraint)
 R
 Analysis (report tables)
 Note constant (report and some constraint)

 If it isolating unuse for perparation or constraint(second and tables)
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 Analysis (report babas posterion in limits)
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 If IP constraint constraint (respect recovery limits)
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 IF IP constraint constraint (respect recovery limits)
 R
 Sample constaint temperature is out of limit as s

Value exercit Maximum Counsminut Level.
 Sample Dilated Dee to Matrix
 H
 Huhding Brane Re-preparation or analysis excepted
 Arti 1440 Deserted at the Reporting Enrol
 RPD matter accepted resource limits
 S
 RPD matter accepted resource limits
 S
 % Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Mask
 Value above quantization range
 Analyte detected Jefury assuminants family Page 4 of 1.6
 Pomuly p1 (for in R mays
 Response) Detection Limit (
 W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Client: Enterp Project: Chaco	rise Field Se Plant	rvices				1				
Sample ID mb-24836	Samp	Cyse: Mi	BLK	Tes	Curin E	PA Matind	BRANK TOLP	Company	oshi -	_
Client ID: PBS	Baic	10 34	836		Invite a	3605				
Prep Date: 4/15/2016	Analysis [Date: 4	18/2016		SegNo: 1	034248	Units: ppm			
Analyte	Résult			SPK RM Val			HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050	S.U. HOUSE	SLU UNE AND	AINEL	Principle.) myre-ann	and o	No. Dealin	- Contract
1.2-Dichloroethane (EDC)	ND	0.050								
2-Butanone	ND	20								
Cerbon tetrachiorida	ND	0.050								
Discinaryana	ND	10								
Chioroform	ND	0.60								
1,4-Dichlorobenzene	ND	0.75								
.1-Dichloroethene	ND	0.070								
Telvart/tomeltiene (PEE)	ND	0.070								
Intrationations (TCE)	NO	0.050								
Vinyl chloride	ND	0.020								
Sur: 1,2-Dichloroethane-d4	0.51		0.5000		101	70	130			
Sur: 4-Bromofluorobenzene	0.52		0.5000		105	70	130			
Sur. Districtuorenethese	0.52		0.5000		104	70	130			
Birr Trikimiertő	0.51	-	0.5000		101	70	130	_		
Sample IO Icp-24836	Simp	Type: LC	5	Tes	Cose E	PA Method	\$2408: TCLP	Compos	nde	
Client ID LOSS	Balin	h ID: 24	336		hunble 2	3608				
Prep Divie 4/15/2016	Analysis I	America A	18/2016		SugNa 1	934249	Unit: ppm			
Ananas	Result	POL	SPK WINH	SPK Ref Val	WREC.	LOWLINK	HighLimit	1APD	RPDLimit	Quai
Benzene	1.1	0.050	1.000	0	108	70	130			
Chlorobenzene	1.0	0.050	1.000	0	102	70	130			
1,1-Dichloroethene	1.1	0.050	1.000	0	107	70	130			
Trichickolihwee (TCE)	1.0	0,050	1.000	0	104	70	130			
Sur 13-068/strattine-d4	0.52		D.5000		103	70	150			
Sun 4-Bromofilioroberizenii	0.53		0,5000		105	70	190			
Sur: Dioromotiuoromethane	0.54		0.5000		105	70	130			
Sur: Toluene-d8	0.52		0.5000		105	70	130			

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc. Cliest: Enterprise Field Services

Ecompte ID: web dell	Sump	Type: Mt	DLR	Ter	Code: T	CLP Yolall	ies by szees			
Client (D: PBW	Ba	THE B	13807		RunNo: 1	3807	1.010			
Prep Date:	Analysis	Detn: 4	26/2016		SegNa, 1	041350	Units: mg/L			
Analyte	Result	POL	SRK value	SPK Ruf Val	WREC	LowLint	HohLint	1.820	RPOLIm/L	Qual
Benzene	ND	0.50							THE RESIDENT	-
1,2-Dichloroethane (EDC)	ND	0.50								
2-Butanone	ND	10								
Carbon Tetrachloride	ND	0.50								
Chloroform	ND	6.0								
1,4-Dichiorobenizine	ND	7.5								
1.1 Dichisenationa	ND	6.70								
Have goth for the characteristic state of the second s	ND	0.50								
Tetrachioroethene (PCE)	ND	0.70								
Trichloroethene (TCE)	ND	0.50								
Vinyl chloride	ND	0.20								
Chlorobenzene	ND	100								
Sutt: 1,2-Dichloroethane-d4	0.0099		0.01000		98.9	. 70	130			
Sur. 4-Bonchumberzere	0,011		0.01000		107	70	130			
Sur DhonelLoremétraire	0.011		0.01000		105	70	130			
Sur Taluenavat	0,0098		0.01000		98.4	70	130			
Sample (D) 100mg les	Samp	Type: LC	s	Tes	Coole T	CLP Volatil	tes by 6260B	_		_
Client ID: LCSW	BAK	hID B3	3807	5	timble: 1	3807				
Prep Date:	Analysis	Date: 4	26/2016	1	ingNo: 1	041360	Units: mg/L			
Analyte	Rasult	PQL	SPK value	SPK Rid Val	NREC	LOWLATE	HighLimit	SIRPD	RPDLimit	Cauge)
Berchre	0.022	0.0010	0.02000	a.	112	70	130			-
1,1-Dichlomethere	0.021	0.0010	0.02000	0	106	70	130			
Trial Rolling Theory (TGB)	0.021	0,0010	9,02000	U	103	70	130			
Chicolantulere	0.019	0.0010	0.02000	0	96.6	70	190			
Surr: 1,2-Dichloroethane-d4	0.010		0.01000		101	70	130			
Surr: 4-Bromofluoroberurene	0.010		0.01000		105	70	130			
Sur: Dibromofluoromethane	0.011		0.01000		107	70	130			
Surr: Toluene-d8	0.0095		0.01000		94.9	70	130			

WO: 1504674

09-Mar-16

- Qualifier:
 If
 Analyte detected in the associated Method Blank

 •
 Value records Maximum Contaminant Level.
 If
 Analyte detected in the associated Method Blank

 D
 Sample Dated Date to Maximum Contaminant Level.
 If
 Value above quantitation range

 If
 Itability times for preparation or studyies saccodul
 I
 Analyte detected in the associated methods.

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 Itability times for preparation or studyies saccodul
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 Analyte detection Iteline quantitation range.

 If
 Itability times for preparation or studyies saccodul
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 Analyte detection Iteline quantitation times.

 10
 Test Detections a for Reporting Level.
 P
 Sample times the preparation is not of limit as specified.

 2
 % Recovery outside of range due to dilution or matrix
 W
 Sample container temperature is out of limit as specified.
 Page 7 of 14

Hall Environmen	tal Anal	ysis	Laborat	ory, Inc.					WQU.	3484564 99-May-10
Client: Enterp	rise Field Ser	vices								
Project: Chaco										
Eampic ID mb-24921	Samp?	iper M	aLK	Tur	Goder 2	PA Method	STOC TOLF	_		
Clinni ID: PBS	Batch	10: 2	4921	R	unNo: 3	3739				
Prep Date: 4/21/2016	Analysis D				eqNo: 1		Units: mg/L			
					-					1.1
Analytin Z-Methylohenol	Result	PQL 200		SPK Ref Val	MREC	LawLinii	HighLinit	NRPD	RPOLImit	Gual
S+4-Mathylphanol	ND	200								
Phenol	ND	200								
2.4-Dinitrotokuener	ND	0.13								
Hexachlorobenzene	ND	0.13								
Hasidivisiadene	ND	0.50								
Hexadilaroseune	ND	3.0								
Nitrobenzene	ND	2.0								
Paritachilvinghandi	ND	100								
Publice	ND	- 50								
2,4,5-Trichlorophenol	ND	400								
2,4,5-Trichlorophenol	ND	400								
Cresols. Total	ND	200								
Sur: 2-Fluorophenol	0.12	200	0.2000		58.4	19	121			
Sum Phonol d5	0.087		0.2000		43.5	31.8	117			
Sur: 2.4.6-Tribromophenol	0.17		0.2000		84.1	31.3	139			
Surr. Nibobirtzinie-d5	0.084		0.1000		64.3	48.2	128			
Sur. 2-Playoboteryl	0.064		0 1000		82 A	58.4	114			
Sur A-Terphenyl-214	0.067		0.1000		67.3	17.4	141			
Sample ID mb-25008			2/112	-			8270C TCLP			_
	Samp1				_		82/0C TCLP			
Climi ID: PBS	Bald	1D 2	5008	R	unNo: 3	3838				
Prep Dale: 4/27/2016	Analysis D	lare y	127/2016	5	HigNo: 1	042551	Units: %Rec	F		
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Quai
Surr: 2-Fluorophenol	0.16		0.2000		80.7	19	121	-	1000	
Surr: Phenol-d5	0.17		0.2000		82.7	31.8	117			
Sur: 2,4,6-Tribromophenol	0.17		0.2000		05.1	31.3	130			
Sum Nitrobenzene-d5	0.081		0.1000		81.5	48.2	128			
Sur: 2-Fluorobiphenyl	0.088		0.1000		87.6	58.4	114			
Sur 4.Tephanyl.d14	0.064		0.1000		64.0	17.4	141			_
Sample ID Ica-25008	Samp	ype: L	cs	Ten	Doder E	PA Method	8270C TOLP	-		-
Climit ID: LCSS		10 2			untier 1					
Prep Date: 4/27/2016	Analysin E				Gentlick 1		Links: NRec	1		
Analyte	Rasult	FOL		SPK Rat Val	-	LowLinit	HighLinit	SRPD	RPDLimit	Club
Surr 2-Fluoropheriol	0.095	1.46	0.2000	a. ti min #di	47.9	19	121		Cit amondit	
Serr Phenol-45	0.078		0.2000		39.1	31.6	317			
Sar: 2.4,6-Tribromophanol	0.16		0.2000		81.9	31.3	139			
Qualifiers: Value escepta Maximum 11 Sample Dilated Date (a) H Holding times for prepar ND Not Detected at the Rep	Vision or analysi orting Limit		led	 U Value a J Analyte P Sample 	detected I pll Not In	estation cargo selow quantit Range		ui.	Page 8 c	ef 14
R RPD outside accepted re					ng Detecti					
S % Recovery outside of r	ange due to dilu	tion or r	matrix	W Sample	container	temperature.	is out of limit as	specified		

QC SUMMAR Hall Environmen			aborat	ory, Inc.					WARE.	1604674 99-May-18
Client: Enterp	ise Pield Se	nvices.								
Project: Chaco	Plant									
Dampte ID 1ca-2000	Samp'	Cyper La	3	Tex	iCiude El	PA Method	BITOC TOLP			
Client ID LCSE	Bald	10: 25	800		tunHis 3	3830				
Prep Dale: 4/27/2016	Analysis I	Jale 4	27/2016		SegNo: 1	042552	Units WAw			
Analyte	RinsLift	POL		SPE Ref Val	NREC	LowLint	Hatturet	SRPO	RPDLimit	Goel
Swr. Nirchanzerie-d5	0.065	i di	0.1000	We at 1 day and	85.1	48.2	12/	and G	To Deliver	agore:
Sam 2-Fixerobiohamil	0.062		0.1000		81.7	58.4	114			
Sur: 4-Terniveny6d14	0.056		0.1000		56.3	17.4	141			
Sample ID Ice-24921	Samo	TYDE LC	5	Tet	Code: E	PA Method	8278C TOLP			
Client ID LCSS		NID: 24			Runkia: 3		-9111-			
Prep Date: 4/21/2016	Analysis I				SegNo: 1		UMIN MURL			
								-		1000
Analyte 2-Methylphenol	Nersult 0.074	PGL 0.010	3PK value 0.1000	SPK Ref Val	%REG 74.5	LowLimit 37,6	HighLand 110	WRPD	RPDLimit	Quai
3+4-Mathyloherol	0.074	0.010	0,1000	0	73.9	30.5	140			
2.1 Deletablione	0.072	0,010	0,2000		71.8	21.0	03.7			
Hexachlorobenzene	0.087	0.010	0.1000	0	86.7	40	114			
Hexachlorobutadiene	0.066	0.010	0.1000	0	65.9	37.4	119			
Hexachloroethane	0.057	0.010	0.1000	0	57.2	33.8	105			
Ntroberusre	0.077	0.010	0.1000	0	77.3	33.4	115			
Pentachiorophenol	0.073	0.010	0.1000	Ū	73.0	27.9	90.3			
Pyridine	0.011	0.010	0.1000	0	11.3	29.3	105			S
Z,4,5-Trichtarophenial	0.008	0.010	0,1000	0	97.0	- 34	118			
2,4,8-Trichlorophenol	0.097	0.010	0.1000	0	36.5	54,1	109			
Cresols, Total	0.22	0.010	0.3000	0	74.1	30	136			
Sort 2-Floorophenol	0.10		0.2000		52.0	19	121			
Sim Prantini	.0.(892		0.2000		40.0	91.0	147			
Sur: 24.6-Tribromophenol	0.17		0.2000		85.4	31.3	139			
Sur: Nitrobenzene-d5	0.081		0.1000		81.3	48.2	128			
Sum: 2-Fluorobiphenyl	0.083		0.1000		83.0	58.4	114			
Son: 4-Tephenyidti	9.069	_	0,1000		69.3	17,4	141			
Sample ID Icad-24821	Samp	Type: LO	SD	Ter	iCode: E	PA Mathod	8270C TCLP			
Clinit ID: LCS502	Batc	n (D. 24	921	1.1	RunNo: 3	3739				
Prep Dave 4/21/2016	Алаўлая (Dami A	22/2016		Segnio 1	042555	time: mg/L			1.1
Analyte	Result	PQL	SPK value	SPK Ref Val	AREC	LowLint	FlighLimit	76RPD	RPDLimit	Giosi
2-Methylphenol	0.078	0.010	0.1000	0	77.6	37,6	110	4.13	20	
3+4-Maritylphmed	0.17	0.010	0.2000	9	83,8	30.5	148	12.6	30	
2,4 Dimitrolokuste	0.074	0.010	8.1000	- D	73.9	24.0	03.7	2,88	20	
Hexachlorobenzene	0.091	0.010	0,1000	0	.90,8	40	514	4,57	20	
Herecklowedathere Nacionalizations	0.066	0.010	0,1000	0	65,9	37.4	119	0.0303	20	
Na sachtornalitumo Mitrobenzane	0.064	0.010	0.1000	0	81.4	33.8	105	5.19	20	
	3.041	2010	3,1000		21.10	344	110	3.15		_
Qualifiers:	- Companying						and Marked 111			
 Value exceeds Maximus D Sample Diluted Due to N 		Level.				in the associa ititation range	ted Method Bla	-		
H Huiding unter the propa		a manual	4			helow quanti			Page 9 d	F 1.4
ND No Deserved at the Kept		- cercia	-		pH No. is		and the second		raffe à t	
R RPD outside accepted re					ing Detecti					
S % Recovery outside of a		at an an a	and a				is out of limit as	enterid at		

Page 6 of 14

9499 (604674

- Qualifier:
 The Analyse detected in the same land. Mained Illust.

 **
 Value records Marsing Contaminant Level.
 The Analyse detected in the same land. Mained Illust.

 13
 Jampie Distinct Days in Maine:
 E
 Value down examination means.

 17
 Holding times for preparations or analysis excepted.
 1
 Analyse detected below quantitation limits.

 10
 Ison Diversed: as its response Limit.
 P
 Sample pri Yiels. Its Marge

 15
 % Recovery outside of range due to diffusion or matrix
 W
 Sample container importance is out of limit as specified.

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Client: Enterprise Field Services

Oualifiers:

Annhysis D	ana Al	and and and and							
	- an	22/2016	3	incNo: 1	042555	Units mg/L			
Reull	POL	SPK value	SPK Ref Val	KREC	LowLint	Huttim	MRPD	RPDLimit	Quil.
0.079	0.010	0,1000	0	79.0	27.9	90.3	7.79		
0.017	0.010	0.1000		16.6	29.3	105	38.8	20	RS.
0.10	0.010	0.1000	ú	103	34	118	5.40	20	
0.097	0.010	0.1000	0	97.2	34.1	109	0.599	20	
0.25	0.010	0.3000	0	81.7	30	136	9.82	20	
0.12		0.2000		61.6	19.	121			
0.096		0.2000		-68.2	31.8				
0.19		0.2000		95.3	31.3				
0.085		0.1000		85.3					
0.087		0.1000		86.7	58.4	114			
0.069		0.1000		69.3	17.4	141			
	0.079 0.017 0.10 0.097 0.25 0.12 0.12 0.12 0.19 0.49 0.085 0.087	0.079 0.010 0.017 0.010 0.007 0.010 0.007 0.010 0.25 0.010 0.12 0.049 0.085 0.087	0.079 0.010 0.1000 0.017 0.010 0.1000 0.10 0.1000 0.1000 0.017 0.010 0.1000 0.107 0.010 0.1000 0.25 0.010 0.1000 0.12 0.2000 0.12 0.181 0.2000 0.191 0.193 0.1000 0.1000 0.087 0.1005	0.079 0.010 0.1000 0 0.017 0.010 0.1000 0 0.017 0.010 0.1000 0 0.017 0.010 0.1000 0 0.027 0.010 0.1000 0 0.025 0.010 0.2000 0 0.19 0.2000 0 0.10 0.198 0.2000 0 0.19 0.085 0.1000 0 0.000 0.086 0.1000 0 0.085	0.079 0.010 0.1000 0 75.0 0.017 6.010 0.1060 0 75.0 0.017 6.010 0.1060 0 16.0 0.010 0.100 0.1000 0 16.0 0.010 0.0100 0.1000 0 17.0 0.25 0.010 0.3000 0 81.6 0.048 0.2000 481.2 0.19 0.2000 55.3 0.186 0.1000 26.5 0.067 45.3 0.067 0.005 85.3	0.02% 0.010 0.1000 0 78.0 27.9 0.017 0.010 0.1000 0 78.0 27.9 0.017 0.010 0.1000 0 10.0 27.9 0.110 0.010 0.1000 0 10.0 34.4 0.017 0.010 0.1000 0 10.7 30.0 0.12 0.2000 0 81.7 30.0 11.7 30.0 0.168 0.2000 0 81.7 30.0 11.3 11.6 11.6 0.198 0.2000 95.3 31.3 10.066 0.1000 85.3 48.2 10.4 0.047 0.1000 85.3 48.2 10.4 10.0	0.079 0.010 0.1000 0 78.0 27.6 90.3 0.017 60.10 0.1060 0 16.6 29.3 105. 0.10 0.010 0.1060 0 16.5 29.3 105. 0.10 0.010 0.1060 0 10.5 3.4 118. 0.097 0.010 0.1000 0 97.2 34.1 109. 0.025 0.010 0.3000 0 87.7 30 136. 0.12 0.2000 81.5 16 19 127 0.18 0.2000 85.3 31.3 135 0.186 0.1000 265.3 48.2 128 0.048 0.1000 265.3 48.2 128	0.079 0.010 0.1000 0 75.0 27.5 96.3 77.9 0.017 0.010 0.1000 0 16.0	0.079 0.079 0.1790 0.7900 0 750. 27.9 56.3 37.76 67.80 0.017 0.0171 0.1000 0 100. 53.4 198 3.40 30 0.017 0.0170 0.1000 0 100. 34. 198 3.40 30 0.007 0.0170 0.1000 0 100. 34. 198 3.40 20 0.007 0.010 0.3000 0 97.2 34.1 109 0.5669 20 0.132 0.2000 0 81.7 30 9.82 20 0.132 0.2000 81.5 141 9.7 20 30 0.149 0.2000 41.2 31.4 138 0 20 0.149 0.2000 41.2 31.4 138 0 20 0.046 0.2000 48.3 31.3 138 0 20 0.049 0.2000 85.3 <t< td=""></t<>

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09-May-16

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Sample IN MB-25068	SumpType: MELK	TostCode EPA Method	7470: Mercury	0		-
Dent ID PBW	Baich ID: 25068	RunNo: 33987				
Prep Date: 4/28/2016	Analysis Dala: A/29/2016	SegNa: 1044543	Units: mg/L			
Analyte	Result POL SPK value	SPK.Ref Val WREC LowLinit	Hohumi	WHPD	RPOLinit	Qual
Mercury	ND 0.00020					
Sample ID LCS-25066	SimpType LCB	TestCode EPA Method	7670: Mercury	()		
Client (D LCSW	Basch (B) 25066	RonNo: 33807				
Presc Date: 4/26/2018	Analysis Dawn 4/29/2016	SegNo 1044544	Linth mg/L			
Analyte	Result PQL SPK value	SPK Ref Val MREC LowLine	HighLimit	SHPD	RPDLimit	Qual
Mercury	0.0051 0.00020 0.005000	0 102 80	120			-

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09-May-16

09-Mar-14

Qualifiers:

Quanters
Value exceeds Maximum Contaminant Leves.
D Sample Dilated Dae to Marie:
H Halling items for programming on analysis exceeded
H Halling items for programming and
K RPD outside accepted recovery limits
R RPD outside accepted recovery limits
% Incovery market of range day to delition or materix.

- Page 11 of 14
- B Analyte detected in the associated Method Blank
 Value above quantitation range
 Value above quantitation range
 Analyti Artistich Valuer quantitation busis
 Sample JH Nos to Range
 RL. Reporting Detection Limit
 W Sample container transmission is out of limit es spo
- is out of limit as spacified.

OC SUMMARY REPORT -----Hall Environmental Analysis Laboratory, Inc. 09.May-16 Enterprise Field Services Client: Project: Chaco Plant TeolGode: MEROURY, TOLP RunNis: 33798 Sample ID MB-24964 SampType MBLK Billch ID: 249M Client ID: PBW SegNo: 1040933 Units: mg/L Prep Date: 4/26/2016 Analysis Date 4/26/2015 Analyte Result PQL SPK value SPK Ref Val KREC LowLinit, HighLinit KRPD RPCLavit, Qual-NO 0.020 Sample ID LCS-34094 SameType: LCS TestCode: MERCURY, TCLP Bends ID 24994 Analysis Citic 4/26/2016 Client-ID: LGBW Prep Dale: 4/26/2016 Runteo 33788 BirdNo: 1040935 Unite: mg/L Analyte
 Result
 PGL
 SPK value
 SPK Val
 SPEC
 LowLine
 HighLineL
 SRPD
 RPDLine
 Dual

 ND
 0.020
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 Mercury

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 Numeric consummant Invert
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 Support Ji Note Karger
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 54
 Sec Densels at its & Second Processory Binsh
 R.
 Report Beetring Landt
 K

 55
 % Recovery outside of nange due to dilution or matrix
 W
 Sample container temperature is out of limit as specified

QC SUMMARY REPORT WWW 1884674 Hall Environmental Analysis Laboratory, Inc. Chent: Enterprise Field Services Project: Chaco Plant

Sampio ID MB-24555	Gamp1	Type: MI	DLK	Tes	Code. E	PA Method	00108: TCL	P Metals		
Client ID: PBW	Batc	h ID: 24	953		RunNo: 3	3748				
Prep Date: 4/22/2016	Analysis (ater, 4	25/2016	4	SegNo: 1	019448	Units mg/L			
Analyte	Resul	POL	SPK value	SPK Ret Val	AREC	Lowint	HighLimit	SRPD	RPOLimit	Quel
Arsenic	ND	5.0	-							
Barium	ND	100								
Cadmium	ND	1.0								
Chromium	ND	5.0								
Lead	ND	5.0								
Selenium	ND	1.0								
Silver	ND	5.0								
Silver	_	5.0 Type 1.6	_	Tea	Gude E	PA Method		P Metala	-	
	Same	-	.5		Cude e		6010B: TCL	P Metale	-	-
Sample ID LCC-24953	Same	7791 6.6 h ID: 24	:5 053			3748	SafaB: TCU Units: mg/L			
Samele ID LCS-24953 Client (D: LCSW	Seme1 Baild	7791 6.6 h ID: 24	15 1953 125/2016		iniNa is	039449			RPDLimit	Qual
Somele ID LCS-24955 Gent ID: LCSW Prep Date: 4/22/2016	Same Baild Analysis E	Type C.G h ID: 24 Date: 4	15 1953 125/2016	f	iunNa is SeqNo: 1	039449	Units: mg/L		RPDLimit	Qual
Somelo ID LCS-24953 Dawi (D: LCSW Prep Date: 4/22/2016 Analyte	Same1 Itald Analysis E Result	Type 6.6 h ID: 24 Date: 4 PQL	5 953 (25/2016 SPK value	f SPK Ref Val	BegNo: 1 %REC	lä748 039449 LowLimit	Units: mg/L HighLimit		RPDLimit	Qual
Somele ID: LCS-24950 Client ID: LCSW Prep Date: 4/22/2016 Analyte Arsenc	Semi1 Baild Analysis E Result ND	Type Lis h ID: 24 Date: 4 PQL 5.0	3 125/2016 SPK value 0.5000	SPK Ref Val	SeqNo: 1 SeqNo: 1 SeqC 109	13748 039449 LowLimit 80	Units: mg/L HighLimit 120		RPDLimit	Qual
Someke ID LCO-24953 Dilwi (D: LCSW) Prep Date: 4/22/2016 Analyte Risenc Barlum	Semi1 Baild Analysis E Result ND ND	7794 6.6 h ID: 24 Date: 4 PQL 5.0 100	:5 1953 125/2016 SPK value 0.5000 0.5000	SPK Ref Val 0 0	BunNis S SeqNo: 1 %REC 109 98.0	13748 039449 LowLimit 80 80	Units: mg/L HighLimit 120 120		RPDLimit	Qual
Bornole ID LCG-24950 Clian/ (D: LCSW Prop Date: 4/22/2016 Analyte Assenc Barlum Cadmium	Samat Bailet Analysis E Result ND ND ND	Frpa LG h ID: 24 Date: 4 PQL 5.0 100 1.0	:5 1953 125/2016 SPK value 0.5000 0.5000 0.5000	SPK Ref Val 0 0 0	BunNo 3 SeqNo: 1 %REC 109 98.0 102	13748 039449 LowLimit 80 80 80	Units: mg/L HighLimit 120 120 120		RPDLimit	Qual
Biomekic ID LCD-ob4600 Calwryl (D: LCSW) Prop Date: 4/22/2016 Analyte Astenic Barlum Cadmium Colomium	Samut Baijd Analysis E Result ND ND ND ND	Fype 66 h ID: 24 Pole 4 FOL 5.0 100 1.0 5.0	25/2016 25/2016 SPK value 0.5000 0.5000 0.5000 0.5000 0.5000	SPK Ref Val 0 0 0 0	SeqNo: 1 %REC 109 98.0 102 97.6	13748 039449 LowLimit 80 80 80 80	Units: mg/L HighLimit 120 120 120 120		RPDLimit	Qual

Qualifiers:

- Qualifier:

 Yake exoloh Maximum Contaminant Level.

 D Sample Diluted Dae to Marie

 III Halding timos, for preprutitary to analysis stranskol.

 PD For Downrada as the Regionming Lamit.

 R RPD onside as the Regionming Lamit.

 R RPD onside accepted precovery limits.

 % Recovery outside of range due to dilution or matrix.

- Page 12 of 14
- B Anatyle detected in the associated Method Blank
 Value above quantifiation range
 / Anatyle detected below quantifiation limits
 benyts pill Sive is Range.
 Reporting Detection Limit
 W Sample container temperature is out of limit as specified

Qualifiers

 Qualifier:
 • Value records Maximum Consumnant Level.

 D
 Sample Datated Data to Maxim

 1
 Relating intermediation for programmer or studying extrached

 ND
 Net Detected on the Engineering times

 ND
 Relating intermediate decords records regulations

 S
 % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank Vahe above quantitation range J Analyte Analota Heart quantitation limits sumple ref Nice IN Range RL Reporting Detection Limit Sample container temperature is out of limit as specified

Page 13 of 14

lient: roject:	Enterprise Chaco Play		Vices								
Sample ID Mill-24		_	per MB	ILK		TestCod	lo: EPA 60105:	Total Recove	nabile Met	als	
Vep Date: 4/25/3	2016	Batch Annlysis Dr	ID: 249				lo: 33820	Unite mail			
unayou .		Resit	POL		e SPK Ref		REC LOWLIMI			RPOLimi	Cual
aemc ad		ND	0.020				12.02				100
iemple ID LCS-24	1977	Sampt					e EPA 6010B:	Total Recove	rable Mei	dia .	-
Vep Date: 4/25/2	2016	Batch Analysis Da	1D: 249				la 33820 la 1941826	Livits: mg/L			
malyla	-	House 0.61	PCL 8.020	SPIC valu	o SPK Rat		REC LowLimit	HighLinit	%RPD	APOLINI	Qual
ei .		0.47		0.500			94.3 80				
innoic ID ME-24	977	Batch	PH MB				e EPA 60108:	Tetal Recove	whin Mai	ate	
rep Outo: 4/25/2	81016	Analysia Da	de: 5/5	5/2016		SeqN	la 1047607	Units: mg/L			
natyte		Rimaili	POL 0.020	SPK whe	SPICENT	/ui 365	REC LowLimit	HighLinit	5890	RPDLimit	Qual
dmium romium		ND I	0.0020								
lenium ver			0.050								
ample ID LCS-24	1977	SempTy					EPA 6010B:	Total Recover	able Met	ais	
nop Demo Arg5/2	(e10 /	Reton Heatyme De	ID: 249				lo: 33997 hr 1047605	ums mg/L			
nalyte		Result 0.50	PQL 0.020	SPK vetur 0.500	SPK Ref	var %R	TEC LowLimit		%RPD	RPDLimit	Quei
dmium		0.50	0.0020	0.5000	0 0	5	100 80 99,6 80 98,6 80	120			
élena, en la companya de la companya			0.050	0.500	0 0		102 80	120			
	cepted recover	fue to diluti		uix 10 A) 58%		ple conta		is out of limit as	specified		
TORY	tside of range of	5/5/7 5/5/7 5/800 5/800 5/800 5/800	1 2003 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	20 10 10 10 10 10 10 10 10 10 10 10 10 10	8) # HA9 8) # A90 9) # A00 9) # A00 9) # A00 9) # A00 8) # A00 9) # A00 90	× ×			specified		Reed Lunds
TORY	tside of range of	5/5/7 5/5/7 5/800 5/800 5/800 5/800	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	600 bort 646940 1 646104 1 646104 1 640104 1 6400 1 64000 1 64000 1 64000 1 64000 1 64000 1 64000 1 64000 1 64000 1 64000 1 64000000000000000000000000000000000000	18 AND 78 19 Inoinh 19 Inoinh	×××			specified		Tale Repa Limits
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenironthenabloom	tside of range of	5 (5) 5	4 100 200 200 200 200 200 200 200 200 200	00F0) 87 Mathematical States (1999) 89 Mathematical States (1999) 199 Mathematical States (19	1204 H4T 1204 H4T 1214 H4T 1215 H	×××			specified		the Repairings
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenironthenabloom	tride of range of tange of tan	5/0/7 677 677 680 608 608 608 608 608 608 608	10000000000000000000000000000000000000	 т. заплования онго на слада на	ун, влад ун, ун, ун, ун, ун, ун, ун, ун, ун, ун,	×××					Repeating REPA Limits
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HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenreentental.com	100 Howkins Nic - John Mill 2016 101 SUS-365/3075 F. Faux 600-5446-407 - 101 SUS-365/3075 F. Faux 600-5446-407 - Antightis Regular	5/0/7 6/7/ 8/80/ 6/8/10 (0/8/10 (1/2019) (1/2019)	(N) 34 /07 34 /07 1) 255 10 10 10 10 10 10 10 10 10 10	1 + 3811 + 3811 - 3815 - 6000 - 8000 - 6000 - 7000 - 6000 - 7000 - 700 - 7000 -	Anr Bubs Anr Anr Anr Anr Anr Anr Anr Anr Anr Anr	XXX					(C
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenreentental.com	100 Howkins Nic - John Mill 2016 101 SUS-365/3075 F. Faux 600-5446-407 - 101 SUS-365/3075 F. Faux 600-5446-407 - Antiophysic Response	5/0/7 6/7/ 8/80/ 6/8/10 (0/8/10 (1/2019) (1/2019)	(N) 34 /07 34 /07 1) 255 10 10 10 10 10 10 10 10 10 10	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	HEALMS. HEALMS. AND CONTINUES AND	100-					102
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Thran-fround The HALL ENVIRONMENTAL X340444 Bruin Analysis LaBORATORY Profession More More More	Project # Allagreges MM 87/18 Allagreges MM 87/18 Project # Project # Allagreges MM 87/18 Project # Project# # Project# # Project # Project # Proj	5,101,7 6,7 6,7 7,7 6,7 7,7 6,7 7,7 7	(N) 24 00033 24 00000 24 00000 24 00000 24 00000 24 00000 24 000000 24 000000 24 000000000000000000000000000000000000	Test 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Contration Reservative HEAL No. Type and # Type (Market Provided Function of Annual Fun	Coul - ODI					Remerces of Alasta Hayle 1456
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The Around The Hall ENVIRONMENTAL ASsertion The Analysis Laboratory Properties Laboratory	A.e. Control of the standard stan standard standard s	ье то айней - 1/9 сто	(N) 24 00033 24 00000 24 00000 24 00000 24 00000 24 00000 24 00000 24 00000 24 000000 24 000000 24 000000000000000000000000000000000000	201011 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Sample Request ID Type and# HEALNA, A **********************************	Ar Dy Discon 3 Par Cal 201 101	Mar Freezer This is word - and -				a Long Remarks of Aller Hard Reverses
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Encounted bunders A. M. O.H. Logger Hite, Anthrey Challeges 4/15/24 Considence By Anthrey Challeges 4/15/27 Reviewer By: Chall of Classicaly 1 Controlly Senta Huart on sample hoffest 1/ 2 Is Chaln of Classicaly complete?		1004874 [4.	Rigthia	d-
Logard By Authory Carling-se 4/15/24 Considence By Anthony Carling-se 4/15/24 Considence By Anthony Carling-se 4/15/24 Challen of Custody Sestia march on sample holling. 7 2 Is Challen of Custody complete?	516 12 18 CS PM	ſ	e he		
Conserved By Anniew Casegoon 4/15/27 Reviewed By HAN (115/27 Chain of Custody seals insurt on sample hollies ? 2 Is Chain of Custody complete?	516 12 18 CS PM		a he		
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Chain of Custody 1 Custody seals insurt on sample hollow? 2 Is Dhain of Custody complete?	1 dife.		11		
1 Custody seals imact on sample holline 7 2 is Chain of Custody complete?					
		Yes :	No	Not Present	
		Yes 🗹	No	Noil Present	
3. How was the sample downerd?		-DAURES			
Log In					
4. Was an attempt made to cod the samples?		Yes w	No	NA	
5. Were all samples received at a semperature of >0*	G 39 6 0'C	V(0- ¥	No	NA	
6. Sample(s) in proper container(s)?		Yes 🖌	No 🗌		
7 Sufficient sample volume for relicated test(st7		Tes 🖌	NO /		
B Are samples (except VCA and OMS) property passe	Cinus,	view of	* No V		
9 Was preservative actour to bother?		Yes V	No + 3	3 NA	
10 VOA sals rave rero headspace?		Yes V	tio -	No VOA Viale	
11 Were any esimple confiamers received broken?		795	No M	# of presented bottles checked	101
12 Dices pape work match bottle labers?		Yan 🖉	fin.	for pH	or 512 unless nated)
(Note obscorpancies on shall of costody)		Yes v	No	Aquateo?	425
13 Are matrices correctly identified an Chain of Custod 14 Is it clear what analyzes were requisited?	Υ.Υ.	Yes V	No		
15. Were all holding times able to be met? (if no, mility conformer for authorowiken)		¥он ¥	Na	Checked by	az
Special Handling (if applicable)					
16 Was client inclined of all discrepancies with this prit	mr?	Yes	No	NA Y	
Person Notified:	Data				
By Whom	Va	eMei .	Phone Fas	le Parson	
Regarding					
Client Instructions:					
17 Additional remarks. For mexicis p.	aniysis (+0-602	0
18 Cooler Information Cooler No. Temp 'C Condition Sea Inta	Seat No.	Seil Onte	Signed By		
1 2.5 (Soud 10)	I amontal 1			4	115 @ 1529
Print and A					9.5
Page 1 of 1					
					2017

District 1 1623 N. French Dr., Hubbs: 504 80349 Exercise II		New Mexico and Natural Resources	Form C-138
1301 W. Grand Avenue, Ariania, NK6 \$8210. District III		vation Division	"Surface Waste Management Finisity Operator and Generator shall maintain and make this
000 Rio Brazos Rosd, Aztec, NM 87410 District IV		St. Francis Dr.	and Generator shall maintain and make this documentation available for Division inspection.
220.6 St. Transa Dr., Senta Fa, NM \$1505		, NM 87505	
REQUEST Generator Name and Address:	FOR APPROVA	AL TO ACCEPT	SOLID WASTE
Enterprise Field Services, LLC, 614 Rei	lly Ave, Farmington NM	87401	
Originating Site: Middle Mesa Compressor Station			
 Location of Material (Street Addres UL N Section 10 Township 31 North F 	s, City, State or ULSTR lange 7 West; 36,907568): , -107.582762, 5un Jua	n County, NM
 Source and Description of Waste: Source: Water Oil from the Non-Exempt Description: Non-Exempt/Non-Hazardous Estimated Volume 60, ydl (bbl) Konst 	Water from the compress	or skidu	
5. GENERAT	TOR CERTIFICATION	STATEMENT OF W.	ASTESTATUS
Generator Signature	or authorized agent for En servation and Recovery A bed waste is: (Check the a	ci (RCILA) and the US I	Environmental Protection Agency's hily 1988
RCRA Exempt Off field wasters	generated from oil and gan	exploration and produc	tion operations and are not mixed with non-
characteristics established in RURA re	egulationa, 40 CFR 261.21	1-261.24, or listed hazard	he minimum standards for waste hazardous by doas waste as defined in 40 CFR, part 261, ove-described waste is non-hazardous. (Check
MSDS Information RCRA Hazar	dous Waste Analysis	Process Knowledge	Other (Provide description in Box 4)
GENERATOR 19.15.36.15 W	ASTE TESTING CERT	TIFICATION STATE	MENT FOR LANDFARMS
Thumas Long How Log , representative	e for Enterprise Products (Operating authorize to o	omplete
he required testing/sign the Generator Wa	ste Testing Certification.		
, representat	tive for	Agua Moss, LLC	do hereby certify that
epresentative samples of the oil field was	a have been pubjected to t requirements applicable	the paint filter test and to to landfarms pursuant to	sted for chloride content and that the samples Section 15 of 19.15.36 NMAC. The results
Transporter: Various Apporved Transporter			
OCD Permitted Sorface Waste Manag	ement Facility		
Name and Facility Permit # *Agua Mas Address of Facility: SW/4 NW/4 Section			
	ction 📋 Treating Plan	n 🗆 Lastlices 🗖	Laadfill D Other
Waste Acceptance Status:	APPROVED	DENIE	D (Must Be Maimained As Petnanent Record)
PRINT NAME: GARNEttigons		TLE SUIR	ATERAT DATE 12/17

HALL ANALYSIS II.

April 19, 2016 Ashley Maxwell Senster, Miller and Associates. 401 WillScadway Farmington, NM 87401 TEL: (505) 325-5667 FAX

RE: Middle Mesa CS

OrderNo: 1603994

Hall Engineenmented Analysis Laborenery 1991 Hawkins Ri, Minapergna, Nd 831ar 7121 - 505-545-5072 FAX 550 445-4101 Wyhate: wyw.katheritemengeter:-

Dear Asistey Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/18/2016 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.hullenvirounnential.com or the state specific web sites. In order to pronerly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Castody for information regarding the sample receipt temperature and preservation. Data qualifies or an advirie will be provided if the sample analysis or analysis or analysis and and its control parameters require a flag. When necessary, data qualifies are provided of the sample analysis report and the QC summary report, both sections should be reviewed. All samples considered field parameters that require analysis within 15 minutes of sampling such as pH and residant chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADRS Cert #AZ0682 - NMED-DWB Cert #NM9425 - NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE. Albaquerque, NM 87109

Hall Environmental Analysis	s Labora	tory, Inc.		Analytical Report Lab Order 1603994 Tana Reported: 4/19/20	n
CLIENT: Souder, Miller and Associates Project: Middle Mess CS Lah ID: 1603994-001	Matrix:	AOUEOUS	Collection	4e 10: Midalle Mesa Non Exemp Date: 3/17/2016 9:39(40 AM Date: 3/18/2016 7:30:00 AM	pil.
Analyses	Result	PQL Qual	Units	DF Date Analyzed	Batch
EPA METHOD 82608: VOLATILES		1		Arcalyst	AG
Naphthalame	ND	0.40	form	200 3/23/2016 1:33:34 PM	R33026
3 Methy maphimules	ND	13.80	ma/L	200 3/23/2015 3:33:24 PM	R33028
2-Methylnaphtnalene	ND	0.80	mg/L	200 3/23/2016 3:33:24 PM	R33025
Acetone	ND	2.0	mg/L	200 3/23/2016 3:33:24 PM	R33025
Bimmatatination	ND	0.20	Wo/L	200 3/23/2016 3 33 24 PM	R33025
Samodelilonemenane	ND-	0.20	mail	200 3/23/2016 3:33:24 PM	R33028
Bromolom	ND	6.30	mail	200 3/23/2016 3:33:24 PM	R33025
Sampathe	ND	0.60	mail	200 3/23/2018 3 12 24 PM	R33025
Bulancer	ND.	20	mga.	200 3/23/00HI 3/32 24 PM	R33025
Carbon disusvelle	ND	2.0	mol.	200 3/23/2016 3:33:24 PM	R13025
Carbon Tetrachionae	ND	0.20	ma/L	200 3/23/2016 3:38:24 PM	F33025
Chimannana	ND	0.20	mail	200 3/20/2016 3/32/24 PM	R11025
Chicroselium	ND	0.40	mal	200 3/23/2016 3:33:24 PM	R03026
Chierolom	ND	6.20	mgil.	200 3/23/2016 3:33:24 PM	1835025
Chloromethane	ND	0.60	mg/L	200 3/23/2016 3:33:24 PM	R33025
3 Chicaniakene	ND	0.20	mg/L	200 3/23/2015 3:33:24 PM	R33025
4 Correlations	ND	0.20	mol	200 3/23/2016 3:39:24 PM	83902
die1.7-DCE	ND	0.20	mail	200 3/23/2016 3:33:24 PM	R33025
cis-1.3-Dichlorwariopene	ND	0.20	mal	200 3/23/2016 1:33 24 PM	R33025
1.2-Dibiomo-3-chiumonoana	ND	0.40	mat	200 3/23/2016 3 33 24 PM	R33028
Devonochioromatrane	ND	0.20	mail	200 3/23/2016 3/33/24 PM	R33025
Districtioned and	ND	0.20	mg/L	200 3/23/2016 3:33:24 PM	R33025
1.2-Dichloroberizene	ND	0.20	mg/L	200 3/23/2016 3:33:24 PM	R33025
1,2-Dichlorobenzene 1,3-Dichlorobenzene	ND	0.20	ingit.	200 3/23/2016 3:33:24 PM	R33025
1.4-Olchiombanzing	ND	0.20	mol	200 3/23/2016 3:33:34 PM	R33025
Dictionadiluorometriene	ND	0.20	mail	200 3/23/2016 3:33:24 PM	R39025
1.1-Dictilarcamana	ND	0.20	mol	200 3/23/2016 3:33:24 PM	R33025
1.1-Elebiotracional	ND	6.30	nga	200 3/24/2016 2 3k-34 PM	R33020
1.2-Dichloroproparie	ND	0.20	more	200 3/23/2016 3:33:24 PM	FC33025
1,3-Okhioropropane	ND	0.20	mail	200 3/23/2016 3:33:24 PM	R33025
2.2-Dichloropropane	ND	0.40	mg/L	200 3/23/2016 3:33:24 PM 200 3/23/2016 3:33:24 PM	R33025
1.1-Dichimoopene	ND.	0.20	mg/L	200 3/23/2016 3:33:24 PM	RENT
Hesotheropuscienc	ND	0.20	mgrt.	200 3/23/2016 3:33:24 PM	R33023
2-Hexanone	ND	2.0	mg/L	200 3/23/2016 3:33:24 PM	R33025
Isopropybencere	ND	0.70	mg/L mg/L	200 3/23/2016 3:33:24 PM	R33025
Lingpropytolium	ALC: N	0.00	mak	200 3/23/2010 3 X5 24 PM	833025
4-Meiltyl-2-sentanone	ND	20	mgA	200 3/23/2016 3 33 24 PM	R33025
Methylane Chloride	ND	0.60	mail	200 3/23/2010 1.33/24 PM	A11023
m-EkcilyAdverszenwi	ND	0.00	mail	200 3/23/2619 3 55 24 PM	R330

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- Volse esseeds Maximum Comminant Leve D Sample Diluted Date to Matrix H Holding Dinas for preparation or institution of SD Aaa Descale at the Bapawing Linui R RPD ostitide accepted recovery limits 5 To Recovery stability of range due to thintyen

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- Analyse devenue in the necessarial Method Mank
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 Analyse devenue holes aparametric on limits (Page 2 of 10)
 Banquisign Mark In Kange
 Koppering Direction Limit
 Sample consiste traperiture or our of time as spectrees

CLIENT: Souder, Muller and Associates Project: Middle Mesa CS	Metris: AC		100	Bestion Die	Pr 3/17	dle Menn Non Esenty /2016 9/39/00 AM /2016 7:30:00 AM		
Latrent	Result	PQL Qual		alis	DF	Date Analyzed	Ba	-
Analyses						Analyz		
EPA METHOD 8270C TCLP		1.000		Autoria and		3/24/2016 3,52:21 PM		409
2-Malitylohenol	7803	000		mg/L_	1	3/24/2016 3:52:21 PM		409
3+4-Minthrationald	ND	200		mark-		3/24/2016 3:52:21 PM		409
Phantol	ND	0.13		mail	1	3/24/2016 3:52:21 PM		409
2.4-Dinitrotokupres	NIT	0.13		mat	1	3/24/2016 3:52:21 PM		409
+Hosting account and	ND			mol		3/24/2010 3:52:21 PM		6044
Hexacherstadedine	ND	0.50		mg/L	1	3/24/2016 3:52:21 PM		4409
Husschlorpermin	ND	3.0		mgt	- 4	3/24/2016 3-52-21 PM		4409
Hutoberzann	ND	100		mail	1	1/24/2016 3:52:21 PM		4402
Pertucida uplant	14D			mat	1.1	3/24/2010 3:52:21 PM		409
Pyralam	ND.	5,0.		mg/L		3/24/2016 3:52:21 P		4409
2.4.5-Trichlorophenol	ND			mort		3/34/2016 3:52 21 P		99944
2,4,6-Trisslemphonol	ND	2.0		mg/L		3/24/2016 3:52:21 F		34400
Crematic, Tiolar	ND	200	5	ALRec	1	MV4/2016 3:52:21 P		2,4409
Burt 2-Fluoropherink	3,10	101101		%Rec		3/24/2016 3:52:21 P		74404
Burr Phenol-db	8.75		8	ALRac:	11	1424/2016 3:52:21 P		24400
Sam: 2,4,5-Tribromophilist	10.05	dimension of the second	5	ALFANC		1/04/2016 3:52:21 P	m	24409
Surr latracenzine di	159.7	40.6 124		Wifec-		3/24/2010 3:52:21 F		74409
Surr. 2-Planolophonp	60.0	35.7.128		miRitett		3/24/2016 3:52:21 F	M.	24409
Sur: 4-Terpheryi-t14	73.2	18.8-115		and.		Ann	iyst.	
EPA METHOD 7470: MERCURY		0.00090		mark				24421
Educers and	MD	0.00080		100.0		Ana	INTE:	MED
EPA 6010B: TOTAL RECOVERABLE	METALS					325/2016 111:34	PM.	2441/
	NO:	0.20		mar		a station of a second at	PM	2441
Ansarit	NU	0.20		mgfl			FIM.	2461
Banism	ND	0,020		mg¢.		and the second	PM	2441
Cadmium	ND	0.000		Tom		1 5/25/2016 1:11:34	PM	2441
Chromitim	ND	0.050		ingl		5 3/25/2016 1:13:08	PM	2441
Laid	ND	-2.5		mB/F		+ 3/25/2016 U11:34	PM.	2441
Sadamasin	ND	0.050		untr.				AG
Silver								RSG
EPA METHOD 62608: YOLATILES	HEX	0.70		mall		208 3/23/2016 3/23/2	22	REE
Buriterin	NO.	0.20		mgiL		200 3/23/2016 2:13:2	A DIA.F	HAS
Tolisenti	ND	0.29		mg/L		200 3/23/2010 3:33:2	A PM	R33
Entrylbenzerve	ND	0.20		mpi.		200 3/23/2016 3 33.2	1 224	R30
Medlingt terry boulgit wither (KATEE)	ND	0.20		mail		200 3/23/2016 3:33:2	4 1965	
1.2.A-Triametry/benzerve	ND.	0.20		maß		200 3/23/2016 2 35 2	* P.M	
1.5 STrimethy/benzents	ND	0.70		nia/L		200 3/3/3/2016 3:33 3	1 1541	
1 2 Contemporary (EDC)				mal		200 523/2016 3 201	on Carl	
1.2-Ditromoetherer (EDB) Refer to the QC Summary rel	NU			diam 10	C data	and preservation info	mab	001

Analytical Report

Lab Order 1603994 Date Reparted: 4/19/2016

limits page 1 of 10.

Value exceeds Maximum Consummer Ceret.
 Dissopte Distants Orace submarks
 Halding tumos for preparations on analysis encordeal
 MD Note Discord a the Responsing Lawn
 Reptionage acception enserger formance
 Sig Recovery outside of range due to dilution or matrix

Hall Environmental Analysis	Labora	tory, Inc.		Analytical Report Lab Order 1003994 Date Reported: 4/19/203	lê .
CLIENT: Sounder, Miller and Associates Project: Middle Moss CS Lab (D: 1603994-001	Matrisz	C AQUEOUS	Collection	e ID: Middle Ment Non Exemp Date: 3/17/2016 9:30:00 AM Date: 3/18/2016 7:30:00 AM	я.
Analyses	Result	PQL Qual	Units	DF Date Analyzed	Batch
EPA METHOD 82808 VOLATILES				Analysi	AG
n-Propulbergane	ND	0.20	mall	200 0/20/2016 3:33:24 PM	REIN
eac-Butylbenzone	ND.	0.20	mak	200 3/23/2016 3:33:24 PM	R3303
Styrene	ND	0.20	mg/L	200 3/23/2016 3:33:24 PM	R\$30
tert-Butylbenzene	ND	0.20	mg/L	200 3/23/2016 3:33:24 PM	R330
1,1.1,2-Tetrachiosolitemo	90	0.20	mg/L	200 3/23/2016 3:33:24 PM	R330
1,1,2,2 Telvanhomethere	ND	0.40	mg/L	200 3/23/2016 3:33:24 PM	R330
Tetrachloroetherm (PCE)	ND	0.20	nan	200 3/29/2016 3:33:24 PM	R330
trans-1,2-DCE	ND	0.20	mg/L	200 3/23/2016 3:33:24 PM	R330
trans-1.3-Dichloropropene	ND	0.20	mail	200 3/23/2016 3:33:24 PM	R330
1,2,3-Trichlaroberroom	MD.	0.20	maru	200 3/25/2016 3:33:24 PM	R330
1,2,4-Tricniorobenzene	ND	0.20	mg/L	200 3/23/2016 3:33:24 PM	R330
1,1,1-Trichloroethane	ND	0.20	mg/L	200 3/23/2016 3:33:24 PM	R330
1,1,2-Trichloroethane	ND	0.20	mg/L	200 3/23/2016 3:33:24 PM	R330
Trichloroethene (TCE)	ND	0.20	mg/L	200 3/23/2016 3:33:24 PM	R330
Trichlorofluoromethane	ND	0.20	mg/L	200 3/23/2016 3:33:24 PM	R330
1.2.3 Trichlorigename	ND.	0.40	mail	200 3/23/2016 3:33:24 PM	R330
Altrige orthogeneties	NIT	0.20	ngt	200 3/23/2016 3:28:24 PM	R320
Xylenes, Total	HD	0.30	mg1.	200 3/23/2016 3:33/24 PM	R330
Surr: 1,2-Dichlerce@vane-di	103	70-130	ThRec	200 M23/2016 3:33:24 PM	PR330
Sum 4-BrathoBuorobenzene	107	76-130	%Rec	200 3/23/J016 3:33:24 PM	R380
Sum Dibromofuoromethana	116	70-100	N/Rec	200 3/23/2016 3:33:24 PM	R330
Surr: Toluene-dő	103	70-130	TONOL	200 3/23/2016 3:33:24 PM	R330

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

- an Consumisant Level. olo Manim

- Vidue exceeds Maximum Commission Level.
 D Sample Dubted Due to Marinix
 Helding times file preparation or worknow exceeded.
 Ifin Same Denemal at the Expensing Limit
 R. RPD control accepted recovery limits.
 S. Recovery outside of range due to distance or matrix

- B Analysis detected in the expectence Method Minick
 E Value above quantitation range
 Montple detected lader quantitation from the page 3 (of 10)
 Sample control lader quantitation limits page 3 (of 11)
 Reporting Detection Limits
 Sample contains transportance in our of limit as specified

Value en

H H H H Wang adarwa quantitation maga Analysis data-ond balaw guantitation lantile pagge Sample pil Noi In Renau Response Detection Lanti Sample construme tamperature to text of time as ap

	at Analy	vis I.	aborator	v. Inc.						19-40-16	
	Miller and A			11.000		-					
roject: Middle	Mesa CS	_			_			-		-	
Sample ID 100mg lcs	SamuT)	qui Les	5				ESCOR- VOL	ATILES			
Dieni ID: LCSW	Baich	(D) R33	3025		innbin 3						
Pvep Date	Analysis Di	10 3/2	23/2016		SeqNis 1	013095	Units: HO/L				
Anniyles	Revit	POL	SPA WIND SI	PK Ref Val		LowLimit	HighLimit	BRPD	RPDLink	Qual	
enzene	22	1.0	20.00	U	112	70	130				
aluana	20	1.0	20.00	0	100	70	130 130				
hlorobenzene	21	1.0	2048	0	104	70	130				
1-Dicinoroattune	23	1.0	20.00	0	116	70	130				
Arrented from (TCE)	20	1.0	10.00	. 10	-90.9	70	130				
Size 1,2-Dichloroettrane-dA	10		10.00		97.4	70	130				
Sur, e-stanolucroberume Sur, Dibranolucrometianin	12		10.00		115	70	180				
Sur, Doronotocomenant Sur, Toluine-da	9.7		10.00		97.4	70	190	-			
		YOH .M	ni úr.	Te	etCone E	PA Method	82608: VUL	ATILES			
Sample ID m		107 R3			RunNo. 3						
Climit ID: PBW					Section 1		Units up/L				
Wrongs Gastin.	Australia D							WRPD	RPDLant	Quei	
Analyto	Result	POL	SPK value S	PK Ret Va	I,REC	LowLimit	HONTRUE	1000	Hanning	Simi	
Benzene	ND	1.0									
Tokerne	ND	1.0									
Etv/Isenten#	ND	1.0									
Methyl teri-bulyl other (MTBE)	ND	1.0									
1,2.4-Trimethylbenzene	ND	1.0									
1.3.5-Trimehylbenzine 1.2-Oktristreethane (EDC)	ND	1.0									
1,2-Dibromoestane (EDB)	ND	1.0									
Nachthalene	ND	2.0									
1-Methylnachthalene	ND	4.0									
2-Methylnaphthalene	ND	4.0									
Acetone	ND	10									
Bromobenzene	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromolorm	ND	3.6									
Bromomethane	ND	3.0									
2-Butanone	ND	10									
Carbon disulfide Carbon Tetrachloride	ND	1.1									
Carbon Tetraohioriele Chlorobenzene	ND	1.									
Choroethane	ND	2									
Chlorolorm	ND	1.									
Chioremotione	ND	3/									
2-Chlorololuene	ND	1/	0								
				_							
Qualifiers:		- Second		II Ant	ine deserve	it in the asso	iated Method I	thick.			
 Value escende Masim 		s speed.				cardulation m					
13 Sample Dilored Date is 11 Holding times for pre-	or sectors.	NII FORM	foin	/ Am	lyic detects	ad indew quar	dission (math		Page	0110	
11 Holdaing times for pre- ND Not Detected at the Ho		and a state of the		P Ser	pin pill Not	r In Range					
				AL No.	antang Dele	timil della					
EPD outside accepted							re is out of Smi				

										-
	, Milles and	Associate	ai.							
Project: Middle	e Mesa CS									
Sample ID ru	Gerrep7	TYPE MOL	8	To	tade: E	Ableting	8340B, YOL	ATRES		
Client ID: PBW	Eato	NIO RASI	826	1.00	Planhie: 33	1025				
Prep Date:	Analysis D	Date: 3/23	3/2016		SeqNo: 1	013096	Units: µg/L			
Analyte	Result		SPK value S	PK Ref Val	MREC	LowLimit	HighLimit	15RPD	RPDLimit	Qual
4-Chiorotoluene	ND	1.0		1000						
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 Dichlorobenzone	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichicrodifuoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropene	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-Bulylberizene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
terl-Buty/benzene	ND	1.0								
1.1,1.2-Tetrachiorpathane	ND	1.0								
1133 Trinchonethine	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								
1,2,4-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
	ND	2.0								
1,2,3-Trichloropropune	HU	a,d								
Qualifiers:										
* Value exceeds Maximu	im Contaminant	t Level.					iated Method B	lank		
D Sample Diluted Due to	Matrix					titation rang			- G. S.	3.2
11 Holding times for prep-	erstann og attalyt	in examini	1				niasce (milli-		Page 5	of 10
NO No Detected at the Re-	naing Limi				is pill that is					
R KPD outside accepted	eleovery limits				ting Detect					
5 % Recovery outside of	survival shire by all	interior and store	ALC: N	W Same	his summittee lange	descent realized	a is our of limit	as appointed	K	

tory, Inc.	Write	1403094 29c(pr-26	QC SUMMAN Hall Environme			aborate	ory, Inc.	-				WW	18039 79. арт
				er, Miller and lle Mesa CS	Associat	les.							
TesiGude EPA Method 92000: YOLATE.ES	-		Sample ID mbr04403		vor MB					8270G TOLP			
RunNey 33028			Client fil: PBS		0 IDI 244			hanNo: 33		Units: mg/L			
SeqNo: 1013096 Units: µg/L	TRANSITION AND INC.	Qui	Prep Date: 3/24/2016	Analysis D				SeqNo: 10				RPDLimit	Qual
SPK Ref Val SREC LowLimit HighLimit SARPD	RPDLINE	Quin	Analyte 2-Methylohenol	Result	PQL 200	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Quai
			3+4-Methylphenol	ND	200								
0 101 70 130			Phenol	ND	200								
107 70 130			2,4-Dinitrolaluene	ND	0.13								
118 70 130 95.5 70 130			Hexachlorobenzene Hexachlorobutadiene	ND ND	0.13								
95.5 70 130			Hexachtorobutadiene Hexachtoroethane	ND	3.0								
			Nitrobenzene	ND	2.0								
			Perstachiorophenol	ND	100								
			Pyridine	ND	5.0								
			2,4,5-Trichlorophenol	ND	400								
			2,4,6-Trichlorophenol	ND	2.0								
			Cresols, Total	ND 0.14	200	0.2000		71.9	15	124			
			Sur: 2-Fluorophenol Sur: Phenol-d5	0.14		0.2000		86.2	15	118			
			Sur: 2,4,6-Tribromophenol	0.16		0.2000		78.8	15	148			
			Burr Niticaestowe-U	0.087		0,1000		87.3	40,6	124			
			Elan S. Auromiticanyl	0.083		0 1000		85.2	35.7	128			
			Sur: 4-Teghenykd14	0.061		0.1000		61.2	18.8	115		_	_
			Sample ID Ics-24409	Samp	Type: LC:	s	Tet	stCode: El	PA Method	8270C TCLP	-		
			Glient ID: LCSS		hID 244			RunNo: 3					
			Prep Data: 3/24/2016	Analysia				SegNo 1		Unite mg/L			
			and the second second second second						LOW		SARPO	RPOLINE	Quil-
			Analyte	Remuil 0.096	POL 9.mip	0 1990	SPK Rot Vat	NREC 95.8	32.1	HELINE 120	2400	AP-MORTE.	Adda.
			-2-Mattughana 3+4-Methylphenol	0.28	0.010	0.2000	0	138	10.9	204			
			2.4-Dinitrotuluene	0.28	0.010	0.2000	0	07.2	41.9	116			
			Hexachlorobenzene	0.081	0.010	0.1000	0	81.4	37.7	99.4			
			Hexachionabulardisma	860,0	0.010	0.1000	0	97.8	30.6	107			
			Historicanter	0.082	0.010	0.1000	0	87.5	974	121			
			Marobaroamia	0,090	D.010	0.1000	0	90.0	28.5	129			
			Percacriorginanal	0.080	0.010	0.1000	0	80.2	7.31	111			
			Pyrame 24.5-Trictionochenici	0.075	0.010	5.1000 6.1000	0	78.9	£.54 25.3	340			
			2,4,5-Ynchorophenol 2,4,6-Trichlorophenol	0.10	0.010	0,1000	0	98.4	21.5	145			
			Cresols, Total	0.088	0.010	0.3000	0	124	30	136			
			Sum 2-Fluorophanol	0.17		0.2000		84.1	15	124			
			Surr; Phonel 45	0.19		0.2000		80.6	16	***			
CONTRACTOR AND			Qualifiers:										
B Analyse denoted in the wavesided Method Blank			 Value excends Maxw 		Lows					aal Mathod Bia	nk		
E. Value above quantitation range			D Sample Deluted Data						alatika rang				
J Analytic detected heliew quantitation limits	Page 6	0110	II Holding sings for pre-		is exceeds	bi			elaw quanti	tation lemits		Page 7	0110
			ND Not Detected at the R R RPD outside accepter					c při Not to ing Detecti					
P Sample pH Not in Range													
 Sample pil Non in Kange RL Reporting Disarition Linux Sample container temperature at cell of limit as specific 	ed .		S % Recovery outside of		ution or m	atrix				is out of limit a	specified		

Hall Environmental Analysis Laboratory, Inc. Client: Souder, Miller and Associates, Project: Middle Mess CS Sample II rb. Samply Mark Clean ID: PBW Batch ID: R33025 TasiGude CPA Mi RunNo 33025

QC SUMMARY REPORT

Crient ID: PBW Prep Date:	Analysis (Date: 3/	23/2016	5	SeqNo: 1	013096	Units: µg/L			
Analyle	Result	POL	SPK value	SPK Ref Vel	NREC	LowLimit	HighLinit	%RPD	RPDLINE	Qui
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Sur: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130			
Sur: Dibromofluoromethane	12		10.00		118	70	130			
Surr: Toluene-d8	9.5		10.00		95.5	70	130			

 Qualifier:
 9
 Value exceeds Maximum Consenses (Lovi)

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 Sample Oblined Doe to Maxim
 11
 Holding imus for preparation or indivis exceeded

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 Not Datasets of the Reporting Limit
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		19-5pc-16		
roject: Middle	, Miller and Ansociates Meta CS		Client: Souder, Miller and Associates Project: Middle Mesa CS	
Client ID: LCSS	SampType: LCE TextCode: EPA Method 8276C TCLP Batch ID: 24409 RunNo: 33040 Analym Dane 3264/2518 Stepho: 1014264 Unite: mg/L		Sample ID MB-24421 Samp/Type: mblk Tes/Code: EPA Method 7476: Mercory Client ID: PBW Batch ID: 24421 RunNo: 33122	
Hep Date: 3/24/2018 Unityte Sur: 2.4.6-Tribromophenol	Analysis Davie 3/24/2918 SingNo: 1014364 Units: mig/L. Reaulat: PGL: SPK matue SPR RetVal: VAREC: LonAumit: HighLave: %RPD RPDLand 0.17 0.2000 Bist 15 148	Que	Prep Date: 3/24/2016 Analysis Date: 3/25/2016 SeqNo: 1016891 Units: mg/L Analyte Rasult: HZL SPX waas SPK Ral Val %REC LowLim: 14(RPC)	RPDLinit Qual
Surr: Nitrobenzene-d5 Surr: 2-Fluorobiphenyl	0.10 0.1000 102 40.6 124 0.094 0.1000 94.2 35.7 128		Merculy ND 0.00020 Barrolai ID LCS-24421 EarrorType Ica. TestCodia: EPA Melhind 7470: Mercury	
Sur: 4 Terphenyl-d14 anialer ID: Icaud-24409	0.067 0.1000 66.8 18.8 11.5 SeminType LC6D TestCode EPA Method 8270G TCLP		Cilent NJ: LCSW Binley ID 24421 RumNia 33122 Pren Dalu 3/24/2016 Avalysis Dale 3/24/2616 Surphin 4016892 (Ava. regil	
lieni 10 i C8502 rep Date: 3/24/2016	Roles In State Results 3046 Analysis Date: 3/24/2016 SegNo: 1014305 Units: mg/L		Ansilyte Result POL SPH value SPH Rel Val %REC LowLinit %RPD Mintory 0.0049 0.00020 0.005000 0 97.7 B0 120	RPDLimit Qual
nalyte letisjoberoi	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit 0.007 0.010 0.1000 0 96.9 32.1 120 1.22 20	Qual	Samyle ID LCS0-24421 SampTyper load TestDirdic EPA Method 7470: Miercany Client ID LCS582 Batch ID 24421 RunNo 33122	
4-Midloylefunnil 4-Destrolokuene sobowotowotene	0.22 0.010 0.2000 0 380 10.0 204 15.0 20 0.080 0.010 0.1000 0 80.2 41.9 116 8.34 20 0.088 0.010 0.1000 0 87.9 37.7 94.4 7.70 20		Prep David: 3/24/2019 Ansh/nii Diato: 3/25/2019 SegNo: 1019895 Units: mgiu. Ansh/e Result PGL SPK value SPK Ref Val SAREC LowLinit HighLinit 3/RPD	RPDCimit Qual
nachtava na linu saist lansati	0.088 0.010 0.1000 0 97.9 37.7 94.4 7.70 20 0.10 0.010 0.1000 0 104 30.8 107 8.47 20 0.089 0.010 0.1000 0 88.0 27.4 121 1.88 20		Mercury 0.0050 0.00500 0 99.4 80 120 1.77	20
trobenzene intachlorophenol ridine	0.091 0.010 0.1000 0 91.1 26.6 134 1.13 20 0.084 0.010 0.1000 0 84.4 7.71 111 5.15 20 0.078 0.010 0.1000 0 76.1 854 92.4 4.16 20			
none 4,5-Trichlorophenol 4,6-Trichlorophenol	0.078 0.010 0.1000 0 78,1 8,54 92,4 4,16 20 0.12 0.010 0.1000 0 115 25,3 146 11,1 20 0.10 0.010 0.1000 0 102 21,5 145 3,14 20			
Suit 2-Fluorophenoi	0.42 0.010 0.3000 0 130 30 136 11.6 20 0.16 0.2000 79.6 15 124 0 20	5		
Surr: Phenol-d5 Surr: 2,4,6-Tritoromophenol Surr: Nitrobenzene-d5	0.19 0.2000 97.5 15 118 0 200 0.19 0.2000 93.2 15 146 0 20 0.11 0.1000 106 40.6 124 0 20			
Surt. 2-Fluorobiphenyl Surt. 4 Terphonyl d14	0.081 0.1000 90.7 35,7 128 0 20 0.086 0.1000 67,8 18,8 116 0 20			
malifiers:			Onalifare	
 Value exceeds Maximur D Sample Diluted Due to I 	fatrix E Value above quantitation range		Bit Analytic detected in the associated Method Blank * Value preseduit Materia Bit 13 Sameth Obligated Date In Method Blank Bit	
D Sample Diluted Due to P H Holding times for perpar ND Not Deneeved 97,599 Reps	Matrix E Value above quantitation range attain for mealysis excerded / Analysis descend below quantitation limits. Page 8 registricity appendix - - F Simple plate 100 to 1a Range	if10.	Value prisonali Maximum Cumminant Tervil. H. Analytis detined in the susceined Method Blink Sametr Distance Date in Marco Heading times for preparation or analysis exceeded Holding times for preparation or analysis exceeded XD No to Detected at the Reporting Limit P Sametre Dist No. In Same	Page 9 of 10
 Value exceeds Maximur D Sample Diluted Due to 1 Holding times for preparently Hist Demonde of Sector Equ R wRPD outside recorder Fre 	Matrix E Value shove quantitation range ation or evalyse exceeded / Analyse detected below quantitation limits Page 8 myst korp and the page 11 bot is transve	əf10.	Vulne piseundii Maximum Communiant Terrill II. Analytis detended in the piseunited Mathed Blank Saundo Tokinad Dae to Mario Historia ginne metyramesian on analysis szcendad Analytis detended belany quantitation limits	Page 9 of 10
Value exceeds Maximu Sample Division Date to 10 Halding times for perganeters Son Downski perge beginnes for perganeters Downski perge beginnes for pergenters	fairit E Value above quantitation range monotopie exceeded / Analyse decoreations limits Page 8 monotopie graph / E Sample constance temporations limits Page 8 very kinner // E Sample constance temporations in the specified Page 8 very kinner // E Sample constance temporations in control limit to specified V Sample constance temporations is control limit to specified Very	1403994-	Vide presenti Matemus Uterell Samto Diato be i Maren Maren Diato Vidence Maren Diato	
Value exceeds Maximu Sample Division Date to Mailing times for perparative of the perparative o	fairs If Value above quantitation range More above quantitation More ab		Vide grandi Matemus Line: Bandi Dialo ki Karo Hadia timo for preprinta or sachijis catorida No. Bondo Talako ki Karo Hadia timo for preprinta or sachijis catorida No. Pool osali se catorida te Kaporing Line: R. R. Pool osali se catorida te Kaporing Line: R. R. Rocker and Mathematikania S. % Recovery conside of range due to diffusion or matrix S. % Recovery conside of range due to diffusion or matrix Kall Environmental Analysis Laboratory Microsoft Constraint Constraint Section Line: Sample container temperature is out of limit as specified	
Value exceeds Maximu Sample Division Date to Mailing times for perparately to the perparately of the perparately o	fairs E Value above quantitation range To anyte decore deviation limits Page 8 Analyte decore deviation limits Page 9 Sample ell Not in Itage Sample ell Not in Itage Sample ensuiner transportation limit W Sample ensuiner transportation limit Y Sample ensuiner transportation limit Sample ensuiner transportation Y Sample ensuiner transportation Y Sample ensuiner transportation Y Sample ensuiner transportation Y Sample ensuiner Y Sample ensuiner Y	1403994-	Vide prediction of the system of Mathema Blank Sametro Blank Dlank Blank Making times for preparation or pachylic scatefield Vide times of the system of	n Check List
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	and Generator shall maintain and make this documentation available for Division inspection.
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Sincerely.

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Andy Freeman Laboratory Manager 4901 Hawkins NE louguerque, NM 67109 2017

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1-Methylmaphihalene	ND	0.00	mgi.	200	3/24/2016 3:00:52 PM
3. Mathematication	NO	0.80	Anna	:300	3/34/2016 3:00:52 PM
Appione	ND	2.0	impl.	300	3/24/2016 3:00:52 PM
Bromobenzenn	NO	0.20	mar.	300	3/24/2016 3:00:52 PM
Bromotichickomitteen	NO	0.20	mmd.	200	3/24/2016 3:00:52 PM
Homoform	ND.	0.20	mal	300	3/24/2016 3:00:52 PM
Bromomethane	ND	0.00	mg4.	200	3/24/2016 3:00:52 PM
2-Butanone	ND	2.0	mañ.	200	3/24/2016 3:00:52 PM
Carbon disulfdie	ND	3 0.	ina/L	200	3/24/2016 3:00:52 PM
Carbon Telescritoridi	HEA	9.20	mak	205	5/34/2016 3:00:52 DM
Chilorobenzene	ND	0.20	mark	200	3/24/2016 3:00:52 PM
Childmititizane	ND	0.40	mat	200	3/24/2016 3:00:52 PM
Chlorolorm	MED	0.90	mat	200	3/24/2016 3:00:52 PM
Chimmethane	(HD)	0.60	mal	500	3/24/2016 3:00:52 PM
2-Chlorotoluene	ND	0.20	mail	200	3/24/2016 3:00:52 PM
4-Chlorotoluene	ND	0.20	ma/L	200	3/24/2016 3:00:52 PM
dis-1.2-0CE	ND	0.20	molt.	200	3/24/2018 3:00:52 PM
ois 1.3 Dishlamanagono	ND	0.29	mail	200	534/2016 3:00:62 PM
1.2-Dibromo-3-chioroarooane	NID	0.40	man.	200	3/24/2016 3 (RP.52 PM
Dibramochiloronalfanna	ND	0.20	maß	500	3/24/2016 3:00:52 PM
Direcoccodia	NO.	0.20	mail.	200	3/34/2016 3:00:52 PM
1.2-Dichlorohectenn	HD	0.20	molt	200	3/24/2016 3:00:52 PM
1 3-Etichinnyhamman	NO	0.20	molt.	500	3/24/2016 3:00:52 FM
1.4-Elichiardberwana	ND	0.20	mo/L	200	3/24/2016 3:00:52 PM
Dictriorodifuor and an	MD	0.20	not	500	3/24/2016 3:00:52 PM
1.1-Dichioroethane	ND	0.20	mail.	200	3/24/2016 3:00:52 FM
1.1-Dichloroethene	ND	0.20	ma/L	200	3/24/2016 3:00:52 PM
1.2-Oldristocrocene	ND	0.20	Aom	200	3/24/2016 3:00:52 PM
4 3-Dichiorocecume	40	0.30	med	-300	1/04/0016 9:00:53 PM
2.2-Dichioropropunet	ND	0.40	mark.	200	3/24/2016 3:00:52 PM
1.1-Oldhiningning	ND	0.20	mal.	200	3/24/2018 2100:52 PM
Horrarchilewish at the analysis	ND	0.20	mat	200	3/24/2018 3:00 52 FW
2-Heidelano	ND	2.0	maß.	200	3/24/2016 3:00:52 PM
Isooroovlaenzene	ND	0.20	malt	200	3/24/2016 5:00:52 PM
4-Isopropyttoluene	ND	0.20	malL	200	3/24/2016 3:00:52 PM
4 Millilyi-2-bentanbox	ND	2.0	malt	200	3/24/2010 3:00:52 FM
Methylene Chloridu	ND	0.60	malt	300	3/24/2016 3:00.62 PM
n-isutyipenzene	NU	0.60	mg/L	200	3/24/2016 3:00:52 PM
Neter to the QC statistically report an	a sample tog		million Ac m	ini anu press	TRADUC DEPOSITION OF
D. Counts Dilucal Day in Mahl			r. Unberghe		
H Halfer time for moment				laterated hadron of	manufaction Rents
MD Max Determined at the Descention				I Vat In Danna	* "De
					and the second second
 A AFU column accepted many a accepted value 			Bi. APPOTING	LARGERTHON LARD	active its one on some we appreciately

Hall Environmental Analysis	Labora	tory, Inc.			Under 1603-461 e lieponed: 4/11/2010
CLUENT: Souder, Miller and Associates Project: McDermon CS			Collection I	hie: 3/21/20	mott Non Exampl 110 9:30:00 AM
Lab ID: 1503A61-001	Matrix:	AOUEOUS	Received I	Date: 3/22/20	016 7:05:00 AM
Analyses	Repuli	PQL Qual	Units	DF	Date Analyzed
EPA METHOD 8200B: VOLATILES	-	_			Analyst: AG
n-Propylbenzene	ND	0.20	mgt.	200	3/24/2016 3:00:52 PM
luno-Bulyiben	NO	0.20	mpil	200	3/24/2016 3:00:52 PM
Styrene	ND	0.20	mat	200	3/24/2018 3:00:52 PM
bed-Botylbenzone	NET	0.20	mot	200	3/24/2016 3:00:52 PM
1,1,1,2-Tetrachioroethane	ND.	0,20	mail	200	3/24/2016 3 00:52 PM
1,1.2.2-Telrachiacomore	NEX	0.40	ingh.	200	1/24/2016 3.00.52 PM
Tetrachloroeffinne (PCE)	ND	0.20	man	200	3/24/2016 3:00:52 PM
trans-1,2-DCE	NO	0.20	mark	200	3/24/2010 3 00 52 PM
Comp. 1.3. (Schleingermann	NO	0.30	ment.	200	3/2M/2010 X 00:52 PM

reparationsemanie (e.c.E)	NO	0.20	right.	-200	3/24/2010 3 00 SZ PW
trank-1,2-DCE	NO	0.20	mail	200	3/24/2016 3:00 52 PM
Game 1.3-Dichleropiconimi	NO	0.20	ngt	200	3/24/2010 3:00:52 PM
1.2.3-Trichkirobenzene	MO.	0.20	man_	200	3/24/2016 3:00:52 PM
1,2,4-Trichiorobenzene	NO	05.0	mgit	200	3/24/2016 3:00:52 PM
1,1,1-Trichloroethane	ND	0.20	mg/L	200	3/24/2016 3:00:52 PM
11.2/Trichlowwthure	ND.	0.26	mpA	200	3/24/2016 3:00:52 PM
Trionscrattings (TCE)	1403	0.20	mail	200	1/24/2018 3:00:52 PM
Trict/larofluommillium	ND	0.20	mpA	200	3/24/2016 3:00:52 PM
1.2.3-Trichlor0ptopane	ND	0.40	mg/L	200	3/24/2016 3:00:52 PM
Vinyl chiorice	ND	0.20	mg/L	200	3/24/2016 3:00:52 FM
Xylenes Total	ND	0.50	mgA.	200	3/24/2016 3:00:52 FM
Sur: 1.2-Dokkauellase-04	117	70-130	TaFan-	200	124/2010 0 CO.52 PM
SUT 4 Brohiofluckoberazinia	99.2	70-130	Territor	200	3/24/2018 3:00:52 PM
Select Carley and a select and a selection	1.00		and other	twee of	
Sam Tereste as	28.8	70 130	Nuclean .	200	providence o de so PNI

scene to the CSC Summary report and sample regar checkins for Haggeo CJC data and preservation information. North Res Part of the Constraint of Constraints and an angle angle constraint in langue O Constraints of the Constraint Method Black Parial Res P Sounds O Black Paria B A advised Relation of the Constraint Method Black P Sounds O Black Paria B A advised Relation on the Constraint Method Black P Sounds O Black Paria F Value dwarfs and the Constraint Method Black P Sounds O Black Paria F Value dwarfs and the Constraint Method Black P Sounds O Black Paria F Value dwarfs and the Constraint Method Black P Sounds O Black Paria P Sounds O Black Paria P Paria Paria Sounds o Black Paria P Paria Paria Paria P

Analytical Report

tian cavi	ronmen	tal Anal	ysis L	aborat	ory, Inc.						11-495-16
Client: Project:		Miller and mott CS	Азюсія	iics							
Semple ID 100	heg fosit	3amo1	yoe Lo	3	Tes	Code B	PA Minima	2000: YOL	ATRICS		
Chief ID: LC	SW	Belle	D RS	3057		NoNe 3	3057				
Prep Date:		Analysis E	ate: 3/	24/2016	5	SegNo: 1	014299	Units: µg/L			
Analyse		Result	POL	SPK value	SPK Rat Val		LowLint	HighLinit	%RPD	IIPDLIMI.	Quel
Bértanné		52	1.0	20.00	0	110	70	130			
Toluene		10	1.0	20.00	0	91.1	70	130			
Nerobenzere		20	1.0	20.00	0	102	70	130			
1,1-Old loruethere		23	1.0	20.00	0	117	70	130			
Sur: 1/2-Dichlore		21	1.0	20.00 10.00	0	107	70	130			
Sur: 1,2-Uchier		4.4		10,00		-107	70	130			
Surr. Dibromalluc		11		10.00		115	70	130			
Sur: Tolume-di	Contra Millio	9,4		10.00		93,7	70	130			
Sample Ki. re.		Sieng	ype: MB	BLK	Tas	Cote: E	PA Method	82668: VOL	ATILES		
until PB	e.	8010	3001		(LINI) 3	3067					
orres d'estate		American A	inter st	DATES A		-	014300	Uniter Linte			
Analyte		Read	POL	SPK value	SPR Ref Val	NREC.	EnsLinit	HighLink	MRPD	RPDLimit	Duli
Banzano		ND	1.0								
ciuana		ND	1.0								
Ethylbenzene	IN IT DO	ND	1.0								
éélinyi lert-bulyi élin 1,2,4-Trimothylbona		ND	1.0								
1,3,5-Trimethylberu		ND	1.0								
1,2-Dichloroeihane		ND	1.0								
2-Dihmmoethane		ND	1.0								
Naphthalene	1	ND	2.0								
- hinti yiruzyi ilisaleri		ND	4.0								
Methyliophenaker		ND	4.0								
Acetone		ND	10								
are suredoniere		ND	1.0								
Bromodichiorometh	ane	ND	1.0								
innatore		ND	1.0								
Secondara		ND	3.5								
Bulanone		ND	10								
Carbon disulfide		ND	10								
Carbon Tetrachlorid	0	ND	1.0								
Chicrobenzene		ND	1.0								
Chloroethane		ND	2.0								
Chloroform Chloromethane		ND	1.0								
2 Chlorotoluono		ND	3.0								
		11D	1.0								
Qualifiers:											
		Contaminant	Levyl.					ind Melliol III	anti-		
	falati Done ya h						iunicuo pange			1000	61.5
		ution in analysi	n prottåd	1			neime quantri	ation invite		Page 4 o	4 10
	ted at the Rep. de accepted re				e candos	pH Not In ng Detecti					
	de accepted re ry outside of n				W Sample		on Thur				

QC SUMMARY REPORT -9701 (683.46) Hall Environmental Analysis Laboratory, Inc. 11-400-26 Souder, Miller and Associates Client:

10.0	D: PEW											
Prep Da Analyte		Balo	n LD. Rá	3057		R	inNo: 3	1057				
Analyse.	ate:	Analysis D	late: 3/	24/2016		Se	igNo: 1	014300	Units: µg/L			
		Result	PQL	SPK value	SPK R	ef Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-Chloroto		ND	1.0									
s-1,2-0C		ND	1.0									
is-1,3-Did	chioropropene	ND	1.0									
	no-3-chioropropane	ND	2.0									
	noromethane	ND	1.0									
Noromorn	ethane	ND	1.0									
,2 Dichlor	robonzono	ND	1.0									
	robenzene	ND	1.0									
,4-Dichlor	robenzene	ND	1.0									
Nichlorodi	fuoromethane	ND	1.0									
1-Dichlor		ND	1.0									
1-CHONON	roeffene	ND	T.U									
2000	notropatel	ND	1.0									
3-Dichlor	ropropane	ND	1.0									
2-Dichlor	ropropane	ND	2.0									
1-Dichlor	ropropene	ND	1.0									
lexachion	obutadiene	ND	1.0									
Hexanor	10	ND	10									
sopropylb	enzene	ND	1.0									
-Isopropy	ansulotti	ND	1.0									
-Methyl-2	-pentanone	ND	10									
Jettylens	Criticia	ND	3.0									
duyluen	1.0.10	ND	3.0									
Propyfoe	enzene	ND	1.0									
ec-Butylb	enzene	ND	1.0									
Styrene		ND	1.0									
ert-Butylb	enzene	ND	1.0									
	hachioroathana	ND	1.0									
3,2,2-Te	varinbepetiane	MD.	20									
etrachion	oethene (PCE)	ND	1.0									
ans-1,2-0		NU	1.0									
rans-1.3-0	Dichloropropene	ND	1.0									
	hlorobenzene	ND	1.0									
	Norobenzene	ND	1.0									
	Noroethane	ND	1.0									
	hloroethane	ND	1.0									
	thene (TCE)	ND	1.0									
	uoromethane	ND	1.0									
	tioropropane	ND	2.0									
	_											
Qualifier	ra: Shu eventa Maxima	Contractor	Court.			Analysis -	and a	the same of	ted Method Bla	4		
	ample Diluted Due to 1		Passe.					tilation energy				
	olding times for pretai							titation emerge				610
	osting times for pretta- to Detected at the Rep-		a criterile				esected in the letter of the l		amon mumit.		Page 5 p	110
	PD outside accepted re											
	Recovery outside of r			and in			g Detecti		is out of limit as	minified		

QC SUMMARY REPORT

Client:

Wor IGAAGI. 11-Apr-16

Hall Environmental Analysis Laboratory, Inc. Souder, Miller and Associates

Project: McDer	mott CS				-					-
Sample ID rb	Sampi	Type: Mi	BLK	Tea	Coda: E	PA Method	82568: VOL	ATILES		
Client ID: PBW	Bato	Batch ID: R33057			tunNo: 3	3057				
Prep Date:	Analysis Date: 3/24/2016		/24/2016	SeqNo: 1014300			Units: µg/L			
Analyte	Rand	FQL	SPK value	SPK Ref Val	WREC	LowLand	HighLimit	SARPD	RPDLimit	Chial
Vinyt chloride	ND	1.0			-			_		-
Xylenes, Total	ND	1.5								
Sur: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		109	70	130			
Surr: Dibromofluoromethane	12		10.00		116	70	130			
Surr: Toluene-d8	9.9		10.00		98.7	70	130			

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Sample ID mili 24409	Somp	Type: Mi	BLK	Tes	iGode E	PA Method	82700 TOLF				
Circl UI PBS	Finite	h ID: 24	Ana		RunNo 2						
Prep Date: 3/24/2016	Anabala		-		SingNo: 1014382 Units: mg/L						
Araniyte	Result	POL	SPM value	SPK Ref Val			HighLimit	MRPD	RFDLinii	Qual	
2-Methylphenol	ND	200				samenta	- agrication		TO DUNIN	-	
3+4-Methylphenol	ND	200									
Phenol	ND	200									
2.4-Dinitrotokuene	ND	0.13									
lexachlorobenzene	ND	0.13									
lemminity (building	ND	0.50									
Issumorosthese	ND	9.0									
Vitrobenzene	ND	2.0									
Pentachiorophenol	ND	100									
Pyridine	ND	5.0									
2,4,5-Trichlorophenol	ND	400									
2,4,6-Trichlorophenol	ND	2.0									
Cresols, Total	ND	200									
Sur: 2-Fluorophenol	0.14	200	0.2000		71.9	15	124				
Sum: Phenol-d5	0.17		0.2000		86.2	15	118				
Sur: 2,4,6-Tribromophenol	0.16		0.2000		78.8	15	148				
Sur hirobstzini-dfi	0.10		8.1000		87.3		140				
Ser 2-Florebilder	D GAS		0,1000		83.3	40,0	128				
Sutr. 4-Testhenyl-d14	0.061		0.1000		81.2	18.8	115				
		_		_	-			_			
Simple ID (csi-24409		Type: Lo					8270C TCLP				
Client ID: LCSS		h ID: 24			RunNo: 3						
Prep Date: 3/24/2016	Analysis	Date: 3	/24/2016		SeqNo: 1	014304	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LOWLIMIT	regnLimit	%RPD	RPDLimit	Quai	
2-Methylphenol	0.096	0.010		0	95.8	32.1	120				
5+4-Mothytohenol	0.28	0.010		0	138	10.9	504				
4-Dinitionalucric	0.067	0.010	0.1000	Û	-87,2	41,5	118				
Hexachlorobenzene	0.081	0.010		0	81,4	37.7	99.4				
texat/millulaine	0.098	0.010		0.	07.8	30.6	107				
Harvier Corrections	B 087	0.010	0.1000	- 0	87.3	27.4	121				
WULLCHITTHE THE	0.090	0.010	0.1000	0	90.0	28.8	134				
Pentachiorophenol	0.080	0.010	0.1000	τ.0	861,2	7.71	100	1.1.1			
Pyridine	0.075	0.010	0.1000	÷.0	10.0	8.54	1.28				
2.4.5-T/chieron/terrol	p.10	0.010	0.1000	0	103	25.3	146				
2,4,5-Trichlarophenol	0.098	0.010	0.1000	ō	98.4	21.5	145				
Cresols, Total	0.37	0.010	0.3000	0	124	30	136				
Sur: 2-Fluorophenol	0.17		0.2000		84.1	15	124				
Sum Phenol-d5.	0.19		0.2000		.96.8	15	118				
1.11.1											
Qualifiers: * Value exceeds Maximu	m Contamia	1 must		B Analyti	a datasted	in the area its	ted Method Blat				
vance exceeds Maximu	 Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix 							ik.			
			titation range			Page 7 o	F10				
						E Strathe and a strate design of the strate					
	Conception of the local division of the loca										
ND Not Detected at the Rep R RPD outside accepted r					pH Not in ing Detecti						

Qualifiers: • Vable receds Maximum Contaminant Level. D Sample Dilated Due to Marix 11 Isfelding times for psynamics or analysis exceeded 10 res Detector at the Reporting Limit. R RPD outside accepted recovery limits S % Recovery outside of range due to dilution or matrix

QC SUMMARY REPORT

 B Analyte detected in the associated Method Blank
 E Value above quantitation range
 / Analyte detected below quantitation limits
 F Sample 21 Not In Range
 RL. Reporting Detection Limit
 Sumple contribute temperature is cert of limit as the Page 6 of 10 specified

> AVERIO. 1503,551

W	Samole c	ontainer	temperature	is out of	limit as

Hall Environmen	tal Anal	ysis I	aborat	ory, Inc.						II-An-I
	r, Miller and	Associ	ues							
Semule ID Ins-26409	Samu	Cyser L.C	a	THE	GUE E	FA Meshoul	6279C TGLP			
Client 1D LCSS	Bala	10 24	409		unNer X	3040				
Prep Date: 3/24/2016	Analysis [Date: 3	24/2016	5	SeqNo: 1	014304	Units: mg/L			
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surt 2,4,5-Tribromophenol	0.17		0.2000		86.1	15	148			
Sur: Nitubercene eff	0.10		0.1000		1.02	40.5	124			
Sain: 2-Fillonobip/hem/	0.094		0,1000		94.2	35.7	128			
Sum: 4-Terphenyl-d14	0.067		0.1000	1	66.8	18.8	115			
Sample ID land 24409	Samp	Type: Lo	:90	Tes	Cedir El	PA Method	\$270C TOLE			
Climito LG5862	Desc	h (0) 24	405	.4	iuntion 3	5040				
Prep Date: 3/24/2016	Analysis (Date: 3	24/2016	E	SecNo 1	014305	Units' mark.			
Analyse	Result	POL	SPK value	SPK Ref Val	INREC	LowLimit	HighLimit	%RPD	RPDLimit	Quili
A Althyle hands	0,097	0.010	0.1000	0	96.9	32,1	120	1,22	20	
+4 Mounylphicnoli	0.32	0.010	0.2000	0	160	10.5	204	15.0	20	
2,4-Dinitrotoluene	0.080	0.010	0.1000	0	80.2	41.9	116	8.34	20	
WOUTH-Designed	0.088	0.010	0.1000		87.9	37.7	99.4	7.70	20	
una historia da contra da	01.0	0.046	0.4000	n.	104	30.6	107	RAT	20	
Anastrick colleges	0.089	0.010	0.1000	0	89.0	27.4	121	1.88	20	
Wtrobenzene	0.091	0.010	0.1000	0	91.1	28.6	134	1.13	20	
Pentachlorophenol	0.084	0.010	0.1000	0	84.4	7.71	111	5.15	20	
yridren	0.078	0.010	0.1000	0	78.1	8.54	82.4	4,16	:20	
4,5-Trianorophenor	0.12	0.010	0.1000	o	115	25.3	140	11.1	20	
2,4,6-Trichlorophenol	0.10	0.010	0.1000	0	102	21.5	145	3.14	20	
Dreezvie, Total	0.42	0.010	0.3000	0	139	30	130	11.5	20	ŝ
Som 2-Riderophanial	0.10		0.2000		79.8	15	124	8	20	
Sun: Prerol-d5	0.19		0.2000		97.5	15	118	D	20	
Sav 2.4,5-Tithmorphond	0.19		0.2000		93.2	15	148	D	20	
for: Neocensire-d5	0.11		0.1000		100	40.0	124	D	20	
Sur: 2-Florotipheryl	0.091		D.1000		90.7	35.7	128		20	
Sur: 4-Terphenvi-014	0.068		0,1000		07.8	10.0	110	o	20	

	n, Miller and Associates ermott CS	
Server ID MD-24421	SempType: milels.	TestGode EPA Motion3 7476: Mercercy
Chini ID: PBW	Balet: IO: 14421	Faintes: 33122
Prep Date: 3/24/2016	Analysis Date: 3/25/2016	SecNo: 1016591 Units: mg/L
Analyte Memury		SPIL Ref Val NREC LowLimit HighLimit SIRPD RPDLimit Ouel
Bample ID LCS-24421	BarrigTyper Ace	TasiCiste EPA Method 7479: Menury
CliencID LCSW	Baricti (D: 24421	Bushis: 33122
Prepr Date: 3/24/2018	Analysis Date: 5/25/2016	Surphim (616862 Units, mg/L.
Analyte	Result PQL SPK value	SPH, Ret Val. SuREC. LoveLimit HighLimit SuRPD RPDLimit Quel
Sample ID LCSD-24421	0.0049 0.00020 0.005000 SamoType: lead	0 97.7 80 120 TestCode EPA Method 7479: Mercury

Mercury		0.0050	0.00020	0.005000	0	99.4	80	120	1.77	20		
Analyte		'Result'	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit:	Qual	
Prop Data:	3/24/2010	Availytes Date: 3/25/2018		Sedino: Injunna			Onthi: Mort					
Client ID;	LCSS62	Bat	Batch (D: 24421		F	tunNa: 3	3122					

- Qualifier:
 *
 Vide exceeds Marinum Continuum Level.

 D
 Sample Didated Davis Materix
 Holding times for programs in an analysis exceeded.

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 Holding times for programs in analysis exceeded.

 S
 % Recovery outside of range due to division or matrix
 Molding times for programs in analysis.
- B Analysis directed to the associated Method Neasi
 E: Veloc shower quantinative rouge
 A society develocible Hele equations to this in
 Y sample pill Nei as litting:
 Page 8 of 10
 Y Sample consider temperature is out of limit as specified

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 W Sample container temperature is out of limit as specified

Page 9 of 10

11-Apr-16

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

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Cilisint Name: BMA-FARM Work Order Num	DOF: 1093A61		PoptNa: 1
Received by/dates D3/22/16		0 10	
Logged By Anne Thome 3/22/2016 7.05:00 / Completed By Anne Thome 3/22/2016 /	AM	an In	-
Reviewed By Aa 03 22	V.c.	Um In-	~
Chain of Custody	n.p		
1. Custody seals intact on sample bottles?	Yes 🖂	No 🗆	Not Present
2. Is Chain of Custody complete?	Yes 🗹	No 🗍	Not Present
3, How was the sample delivered?	Courier		
4. Was an attempt made to cool the samples?	Yan 🐼	No []	NALI
 Alse au smallbi unice lo cool pie selubles l. 	Y86 (92)	NO LLI	HA LI
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes M	No 🗆	MA 🗖
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗆	
7. Bufficient sample volume for indicated teat/es?	Yes M	No 🗌	
B. Are samples (eaclept VCA and ONG) properly preserved?	Ves M	No []	10 PT
9. Was preservative added to bottles?	Yan 1.3	No M	NA 🗆
10 VOA visis have zero besidepane?	View 🛄	No El	No VOA VIAN 121
11. Were any sample containers received broken?	Yes 🗌	No M	# of preserved bottles checked /
12. Lose papevent mision pottia labela? (Note discrepancies on drain of canasity)	Yan Mi	NO 🖽	to pit
13, Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗆	Adjusted NO
14, Is it clear what analyses ware requested? 15. Ware all holding times able to be met?	Yes M	No D	Chocked by: Da
(if no, notify customer for authorization.)	100 (81)	and [- yn
Special Handling (if applicable)			
16. Was client notified of all discrepancies with this order?	Yes 🗔	No D	NA M
Pareon Notified Deter	1		
By Whater Vie.	C eMai C i	Phote 🗌 Fax	In Person
Client Instructions:	0.000		and the second second
17. Additional remarka:			
Page I of I			
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Hall Bernessental Analysis Laboratory 1961 Hawking NE Alwayatrya, Mikrillo 122, 105-125-1972 File 313-545-1497 Website: www.kelberitesental. HALL ENVIRONMENTAL ANALYSIS February 02, 2017 Ashley Maxwell

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/27/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our secredited 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 entirely, 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 qualifers 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 #NM0190

OrderNo.: 1701B28

Hall E	nvironmental Analysis	Labora	tory, In	ic.			Analytical Report Lab Order 1701B28 Date Reported: 2/2/2017	
Project:	Souder, Miller and Amoesiaes Hart Canyon 2					Date: 1/2	6/2017 7:58:00 AM	
Lab ID:	17011325-001	Matrix:	AQUEOUS	5	Received	Date: 1/2	7/2017 8:40:00 AM	-
Anatyses		Result	PQL	Qual	Units	.DF	Date Analyzed	Batch
EPAME	THOD 7470; MERCURY						Analyst	pmf
Mercary		ND	0.00020		uch.	1	1/30/2017 3 09 15 PM	29942
-	08: TOTAL RECOVERABLE ME	TALE					Analyst	inmi
	ARCIDIAL RECOVERABLE ME	ND	5.0		mal	10	2/1/2017 5:08:03 PM	29031
Arsenic		ND	5.9 100		mgit	10	2/1/2017 5:08:03 PM	25931
Banum		ND	1.0		mgit	1	1/30/2017 11:51:20 AM	
Cadmiu		ND	1.0		mg/L mg/L	10	2/1/2017 5:08:03 PM	29931
ChromA	un.	HD -	5.0		mail	-10	2/1/2017 5:08:53 PM	20931
Seleniur		ND	5.0		mgiL	10	2/1/2017 5:08:03 PM	29931
Selenius	n.	ND	5.0		mat	5	2/1/2017 5:06:53 PM	29931
		103	5.9		mar	9	Sector of the sector of the	
EPA ME	THOD BITOC: PAHS						Analyst	
Naphtha	deno	ND	2.8	- D	HD/L	- T	1/30/2017 3/06:31 PM	29925
-i-Metry	muphthalans	ND	2.5		ugit.		1/30/2017 3:06:31 PM	29925
2-Melliny	fmaphthalene	ND	2.5		NB/L	- 1	1/30/2017 3:06:31 PM	20025
Acenapi	hthylene	ND	2.5		µg/L	1	1/30/2017 3:06:31 PM	29925
Accorp	hthere	ND.	3.8		100	1	1/30/2017 3/06:31 PM	29925
Fluomer		ND	2.6	D	HOL	4	1/30/2017 3:08:31 PM	29925
Phenan	threne	ND	2.5	D	101	T	1/20/2017 1:06:31 PM	29921
Anthred	iona.	ND	25	Q.	Light_	1	100/2017 3:06;31 PM	58852
Fixenin	Duerse	ND	2.5		101	1	1/30/2017 2:06:31 PM	29929
Pyrete		ME	2.6		PDL	1	1/30/2017 3:06:31 PM	29925
Bertzini	anthractine	ND	3.5		HALL.		1/00/2017 3:06:31 PM	30036
Chryse	90	ND	2,5		HOL	1	1/30/2017 3:06:31 PM	29926
)/luorantha	NO	2.5		HIGH.	1	1/30/2017 3:06;31 PM	29925
	Accountient	NO	23		-Ug/L		US0/2017 A:06:31 PM	20025
	a)czyrmien	ND	2.5		hbyr	1	1/30/2017 3:06:31 PM	29925
	a.h)ent/resiene	NO	2.5		NOL	1	1/30/2017 3/06/31 PM	29925
	g, in Altomytelens	ND	2.5		uar.	1	1/36/2017 3 06 31 FM	29825
	7,2;3-ccl gyrarm	ND.	25		N9/L	1	1/20/2017 3:06:31 PM	29925
	N-hexadecane	34.3	15-176	-	%Rec	1	1/30/2017 3.00.31 PM	29925
Sur:	Benzo(e)pyrene	61.8	15-198	B D	%Rec	1	1/30/2017 3:06:31 PM	29925
EPA ME	THOD 8260B: VOLATILES						Analyst	
Berg/en		0.64	0.50	1	mgt.	20	0 1/27/2017 8:13:49 PM	A4034
Taksend		-3.0	0.20		mail	20	0 1/27/2017 8:13:45 PM	A4034
Ethylbe		ND	0.20	3	mail	. 30	0 1/27/2017 8:13:49 PM	A4034
	tert-butyl ether (MTBE)	ND	0.20	3	mp7.	-20	0 1/27/2017 8:13:49 PM	A403il
	down wy hours and	ND	0.20	2	mart.	28	0 1/27/2017 #13:40 PM	A1034
	rinning ty Konstante	ND	0.20	5	mp/L	2	0 1/27/2017 8:13:49 PM	A4034
	Noroelliane (EDC)	ND	0.20	s	mail.	20	0-1/27/2017 8:13:49 PM	A4034

Andy Freem Laboratory Manager 490) Hawkins NE Albuquerque, NM 87109

andy

Sincerely,

Hall Environmental

CLIENT: Souder, Miller and Project: Hart Canyon Z

EPA METHOD 82608: VOL

1,2 Othremosthana (609) Naphthalana 1.Methylnephthalene

o Milliyhazhilalinii Acitore Bronocenzane

Brancichloramshinni Brancióm Dromamathane

2-Buttertane Carbon disuffide Carbon Totachio

Chionaterization Chionoethane Chionoethane Chionoform Chionomethane 2-Chlorotoluene

2-Chlorotokiene 4-Chlorotokiene cie-1,2-OCE ete-1,2-Octorophysion 1,2-District-ophysion 1,2-District-ophysion District-ophysion District-o

1.2-Diavaraburane 1.3-Diakaraburane 1.4-Diariaraburane Catiloras lucrame 1.1-Diakaraburane 1.1-Diakaraburane 1.2-Diakarapropersi 1.3-Diakarapropersi 1.3-Diakarapropersi

2.7-Ekonlorop 1.1-Dictrilorop Hexachicrob 2-Hexanone Homopylonnik 4-isopropykolaane 4-Milthyl 2 pentanorie Manytena Chiada

ers

Lab ID: 1701R28-001

Analyses

Souder, Miller and Associates

401 W. Broadway

Farmington, NM 87401

TEL. (505) 325-5667

FAX (505) 327-1496 RE: Hart Canyon 2

Dear Ashley Maxwell:

Refer to the QC Summary report and sample login checklist for flagged QC data and postervation information Value exceeds Maximum Contaminant Level. Ouslifiers.

Sampe Detection Statistical Constraints Level.
 Sample Dulated Due to Matrix
 Holding times for preparation or analysis exceeded
 ND Not Deutsch at the Reporting Limit
 RPD public accepted recovery limits
 Statistical Statistics
 Statistics

Analytical Report Lab Onler 1701B28

Date Reported 1/2/1817

Batch

Analyst: DJF

on limits Page 1 of 13

Client Sample (II): East BOT

Callection Date: 1/26/2017 7:58100 AM

Received Date: 1/27/2017 8:40:00 AM

OF Date Analyzed

l Analysis	Labora	tory, Inc.		Analytical Report Lab Orden 1701838 Othe Reported: 2/2/2017	7	Hall Environmental Analysi	s Labora	tory, Inc.
d Associates	Matrix:	AOUEOUS	Collection	ne 10: East BGT Date: 1/26/2017 7:58:00 AM Date: 1/27/2017 8:46:00 AM		CLIENT: Souder, Miller and Association Project: Hart Conyon 2 Lab fD: 1701828-001	Matrix:	C AQUEQUS
	Result	PQL Qua	I Units	DF Date Analyzed	Batch	Analyses	Result	PQL Qual
LATILES				Analyst		EPA METHOD 8280B: VOLATILES		
	ND	0.20	mail	200 1/27/2017 0:11:49 PM	A4634	w Badylbenzene	ND	0.00
	ND	0.40	mpA	200 1/27/2017 8.13.49 PM	A40344	n-Propylberazeria	ND	0.20
	NO	0.80	mart	200 1/27/2017 8:12-49 PM	A40344	sec-Butylbenzene	ND	0.20
	NO	0.60	Apm	200 1/27/2017 0:13:49 PM	A4034H	Styrene	ND	0.20
	ND	2.0	more	200 1/27/2017 8:13:49 PM	A40344	tect-Elutytoonzono	PIES	0.20
	ND	0.20	man	200 1/27/2017 8:13:49 PM	A40344	1,1,1,2 Totrachierocemene	+123 -	0.20
	NO	0.20	mgil	200 1/27/2017 8:13:49 PM	A40344	1.1.2.2-Tel/achigronihane	ND -	0.40
	ND	0.20	mp/L	200 1/2//2017 6:13 49 PM	A40344	Teleschlorouthene (PCE)	ND -	0.20
	80	0.60	maft.	200 1/27/2017 8/13/49 PM	A4034#	teams 1,2-DCE	ND.	6.30
	ND -	2.0	man	200 1/27/2017 8:13:49 PM	A40344	Innn+1,3-Dichleropmamm	HD -	0.20
	ND	2.0	mail	200 1/27/2017 8:13:49 PM	A40344	1.3.3-Trichlorobenzene	ND	0.20
	ND	0.20	mat_	200 1/27/2017 8:15 40 PM	A4034#	1.2.4.Trichlondbergene	ND	0.20
	ND	0.20	mgfL	200 1/27/2017 8:13:49 PM	A40344	1.1.1-Trichloweilloweillow	ND	0.70
	ND	0.40	man.	200 1/27/2017 8:13:49 PM	A40344	1,1,2-Trichloroethaire	ND	0.20
	ND	0.20	malL	200 1/27/2017 R-13:49 PM	A40344	Trichloroethene (TCE)	ND	0.20
	ND .	0.60	Ing/L	200 1/27/J017 IL 13:49 PM		Trithioralizovanativna	ND-	0.20
	ALD.	0.20	Agm	200 1/27/2017 8 13:49 PM		1.2.3 Trichloropropume	ND	0.40
	ND	0.20	mg/L	200 1/27/2017 # 13:48 PM		Vinyi chionăe	ND	0.20
	ND	0.70	non	200 1/27/2017 8:13:49 /94		Xylenas, Total	ND	0.30
	NO	0.20	mg/L	200 1/27/2017 8:13:49 PM		Surr. 1.2-Dichloros//www.dk	69.0	76-150
	NO	0.40	mat	200 1/27/2017 6:13:49 PM		Burr 4-Bromofluorobenzane	80.5	70-130
	ND	0.20	man.	200 1/27/2017 8/13:49 PM		Sun Dibrunofournmenana	88.8	70-130
	ND	0.20	mgA	200 1/27/2017 E 13:40 PM		Surr: Tolueme dB	09.0	70-130
	ND	0.20	mg/L	200 1/27/2017 B:13:40 PM				
	ND.	0.20	mail	200 1/27/2017 8:13:49 PM				
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	ND	0.22	mat	200 1/27/2017 5 13:49 PM				
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	ND	0.60	ma/L	206 1/27/2017 8:13:46 PM	AADAA			

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

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 Marie Costamonate and the second of the sec
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 Vida above quantitation ringit
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 super-limit planets planet
 Repressing Distantion (Jami)
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Analyst: DJF 2001 (272017 6 1349 PM 40344 200 (272017 6 1349 PM 40344 200 (272017 6 1349 PM 40344 200 (272017 6 1349 PM 4034 200 anni E) 0.30 60.0 60.5 70-150 lama-d4 benzene 10.0 70-130 70-130 N.Rec. 200 1/27/2017 8:13:49 PM 200 1/27/2017 8:13:49 PM A40344 A40344 89.0 n/lec

PQL Qual Units

Refer to the OC Summary report and sample login checklist for flagged OC data and preservation info

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- al Analyse detailed in the supported Minde Minde Veloc botty quantitation range Analyse deniered before quantitation limits P Sangle off Net Is Karasa R. Reporting Determin Limit W Sample contention Limit W Sample contention runni of limit as openified

- Volue evenesh Maximum Consuminent Level.
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 RPD ostivide accepted recovery limits
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Analyte detected in the susceiland Method Illink
 Value above quantification range
 Analyte detected below quantification limits
 Page
 Samele Al No In Range
 Reporting Detection Limit
 Memory and the susceilance of the summer of t W Sample commence compensation is our of Heat as of

	s Laboratory, Inc.					Analytical Report Lab Order 1701828 Dure Reported: 2/2/2017					
THENT: Souder, Miller and Associates reject: Hart Canyon 2 .ab 1Di 1701B25-002	Matrix:	AOUEOUS		Collec	tion De	ate: 1/2	at BGT 6/2017 7:33:00 AM 7/2017 9:40:00 AM				
Analyses	Result	PQL Q	uni	Units		DF	Date Analyzed	Batch			
EPA METHOD 7470: MERCURY	-	-			-		Analyst	prof			
Minory	0.00045	0.00020		Lot		- 1	1/30/2017 3:11:16 PM	29942			
total and	-						Analyst	pmf			
EPA 6010B: TOTAL RECOVERABLE ME	NO	5.0		ma/L		10	2/1/2017 5 11:35 PM	29931			
Ansenic	ND	100		imp3		-5	2/1/2017 5:10:22 PM	29931			
Barium		100		mat		1	1/30/2017 11:52:29 AM	29931			
Calmium	ND	5.0		mg/l		10	2/1/2017 5:11:35 PM	29931			
Chromium	ND	5.0		mg/L		5	2/1/2017 5:10:22 PM	29931			
Level	ND	6.0		man		4	2/1/2017 5 10:32 PM	29931			
Salarman		5.0		man			2/1/2017 5 10:22 PM	29931			
Silver	ND	5.0		man			Analyst				
EPA METHOD 8270C: PAHs											
Haphthalene	ND	2.5	0	00%		1	1/30/2017 3:30:43 PM	29805			
1-Maryinophilwiese	NO	2,5	Q.	Ug/L		1	1/30/2017 3:30 45 PM	29970			
2-Methylmsphihaims	TND	2,5	10	- scart			1/30/2017 3 30 43 PM	29975			
Apenaphthylene	NO	2.5	D	N91			1/30/2017 3:30:43 PM	29925			
Aconuchmone	6163	25	D	.ug1	2	1	1/30/2017 3:38:43 PM				
Filorenii	- 1463	2.5	D	ugA		1	1/30/2017 3:30:43 PM	29625			
Preventitivene	NU	2.6	D	HQ/		1.1	1/30/2017 3:30:43 PM	29925			
Anthracene	NO	0.5	D.	101		1	1/20/2017 7:30:43 PM	20926			
Filementiticano	ND	2.5	D	ugl		1	1/30/2017 3:30:43 PM	29925			
Pyinto	HO	2.5	D	µg/	1.1	1	1/30/3017 3:30:43 PM	29925			
Benz(a)anthracene	ND	2.5	D	PD		- 1	1/30/2017 3:30:43 PM	29925			
Chrysene	ND	2.5	D	LIGH		1	1/30/2017 3:30:43 PM	29925			
Beenado Vivoramineine	105	2.5	D	- Mgt	0.11	1	1/30/2017 3:30:43 PM	29925			
Herszold Thiolenment	NO	2.5	.p	104		1	1/30/2017 3:30:43 PM	29925			
Banzo(a)pyranii	ND.	2.5	D	i µgi	£ 1.		1/30/2017 3:30:43 PM	29925			
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Beruota hotery and	ND	.25	D.	UQ I	0		1/30/2017 3:38.43 PM				
Indenci(1,2,3-od)nymmi	WD.	25	0	· - uol	L	1	1/30/2017 3:30:43 PM				
Surr: N-huzsdeitaite	30.4	15-170	D	1 %P	an.	1	1/30/2017 3:30 #3 03				
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EPA METHOD 82608: VOLATILES							Analy	t DJF			
	ND	0.50		mo	Λ.	2	00 1/27/201/ 9:40:36 PM				
Benzene	0.37			me			00 1/27/2017 9:40:36 PM				
Toluene	ND	0.20		m		2	00 1/27/2017 9:40:36 PM				
Ethylbenzene	ND	0.20		m			00 1/27/2017 9:40:36 PM				
Methyl tert-butyl ether (MTBE)	ND			m			00 1/27/2017 9:40:36 PM				
1.2.4-Trimethykwinzono	ND			170			100 1/27/2017 9:40:36 PM				
1,3.5-Trimethy benziend	ND			100			50 1/27/2017 9:40:36 PM	A4034			
1.2-Dichlaradhane (EDC) Refer to the QC Summary report			e la			iata and	preservation informat	ion.			
the second se					-	incore i	to the associated Method Illa	ok.			
Qualifiers: * Value excents Maximum		avel.		F			nitation kings				
D Sample Diluted Dur to Ma	alexy.	- Internet		1	Analyze	detectors	below quantitation limits pr	and of 12			
H Holding times for preparat		exceeded		P		oH Not I		Rea of 12			
ND Not Detected at the Bapar				RI			ion Limit				
R RPD petaide ascepted rec							temperature is out of limit i				

LIKNT: Souder, Miller and Association			tient Same	te TD: West BOT	
				Darg: 1/26/2017 7/39/00 AM	
Project: Hart Canyon 2				the second se	
(alt ID: 170) B28-002	Matrix: >	AQUEOUS	Received	Date: 1/27/2017 8/40:00 AM	_
Analyses	Result	PQL Qual	Units	DF Date Analyzed	Batch
EPA METHOD 82808: VOLATILES				Analyst	DJF
1,2-Dibromoethane (EDB)	NIG	0.20	mol	200 1/27/2017 s-40:38 PM	ANUM
Naphinalana	19(2	0.40		200 1/27/2017 (F40.36 PM	A40344
1-Admittys capit disculation	1412	0.69	mgill	200 1/27/2017 2-40-36 PM	A40344
2-Methylnophtheene	NG	0.60		200 1/27/2017 9:40.36 PM	A40344
Acatoria	NO	7.0	mest.	200 1/27/2017 9:40:36 PM	A40344
Brandeeraons	40	0.20	mul	200 1/27/2017 0:40:36 PM	A40344
Bromodichlotomettere	IND	0.20	mpiL	200 1/27/2017 B:40.36 PM	A40344
Examplaim	NO	0.20	mas.	200 1/2/0/017 V:40:36 PM	A40344
Bromores Taken	140	0.60	mat	200 1/27/2017 9:40 36 PM	A40344
2-Bulanonei	NG	2.0	mail	200 1/27/2017 9;40:36 PM	A40344
Carbon disuffide	NO	2.0	mg/L	200 1/27/2017 9:40:36 PM	A40344
Carbon Tetrachloride	ND	0.20	mg/L	200 1/27/2017 9:40:36 PM	A40344
Chlorobergene	110	0.20	man.	200 1/27/2017 9:40:35 PM	A4054
Chiarocheno	140	0.40	man.	200.1/27/2017 0:40 36 PM	140344
Chloroform	140	0.20	mart	200 1/27/2017 9:40:38 PM	A4034
Chloromethane	ND	0.60	mg/L	200 1/27/2017 9:40:36 PM	A40344
2-Chlorotoluene	ND	0.20	mg/L	200 1/27/2017 9:40:36 PM	A4034
4-Cirioratchumu	140	0.20	mari	200 1/27/2017 9:40:36 PM	A40344
OB-1.2-DCE	ND	0.20	mg/L	200 1/27/2017 9.40.30 PM	A4034-
cis-1,3-Dichloropropene	ND	0.20	mgL	200 1/27/2017 9:40:36 PM	A40344
1.2-Ditrovio-3-stainmurgann	NO	0.40	mut.	200 1/27/2017-9 4D-MI PM	A4034
Ditaomochicromethane	NO	0.20	mail	200 1/27/2017 0:40:86 PM	A4034
Dibromomethane	ND	0.20	mg/L	200 1/27/2017 9:40:36 PM	A40344
1.2-Dichlomizenzene	NO	0.20	mon.	200 1/27/2017 9:40 36 PM	A4034
1.1 Dichloroberome	NO.	0.20	mgå.	200 1/27/2017 8/40:36 PM	A4034
1,4-Dichlorobergane	ND	0.20	mal	200 1/27/2017 B:40:36 PM	MICH
Dichlorodifuoremailwea	NO	0.90	mon.	200 1/27/2017 9.40 36 PM	A4034
1.1-Dichloroetharm	NO	0.20	mpA	200 1/27/2017 0:40:36 PM	AICON
1.1-Dichloroethemi	NO-	0.20	mal	200 1/27/2017 B:40:36 PM	A4034
1.2-Dichloropropane	ND	0.20	mg/L	200 1/27/2017 0:40:36 PM	A4034
1,3-Dichloropropane	ND	0.20	mg/L	200 1/27/2017 9:40:36 PM	A4034
2.2-Dichloropropane	ND	0.40	mg/L	200 1/27/2017 9:40:36 PM	A4034
1.1-Dichloropropeno	ND	0.20	mg/L	200 1/27/2017 9-40-36 PM	A4034
Hexachlorobutadiene	ND	0.20	mg/L	200 1/27/2017 9:40:36 PM	A4034
2-Hexanone	ND	2.0	mgL	200 1/27/2017 9:40:36 PM	A4034
Isopropylbenzene	ND	0.20	mal	200 1/27/2017 9:40:36 PM	A4034
4-Isopropyliciumie	ND	0.20	molL	200 1/27/2017 9:40:36 PM	A4034
4-Methyl-2-pentanone	ND	2.0	mg/L	200 1/27/2017 9.40.30 PM	A4034
Methylene Chloride	ND	0.60	mg/L	200 1/27/2017 9:40:36 PM	A4034

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Analytical Report

QC SUMMAR' Hall Environmen	Y REPO	RT is Labora	tory, I	nc.				woi	02-Fe5-1
	Miller and An anyon 2	sociates							
Sample (D. rb2	-Semito 1 VE	INTERNA				arcon; YoL	ATILES		
Clique ID PBW	Batch 4	D A40344		RuhNez		Sec. 12.			
Prop Date:	Analysis Del	e 1/27/2017		SegNo	1254955	Units ug/L			
Analytic	Result	POL SPK valu	· SPAR	et val MRES	LowLimit	HighLimit	INRPO	RPDLmit	Qual
Benzene	ND	1.0		1.00					
Toluene	ND	1.0							
Ethylbenzene	ND	1.0							
Methyl len-butyl ethol (MTBE)	ND	1.0							
1,2.4.Trimilybectma	ND	1.0							
1.3,5-TrimelilyBenutral	ND	1.0							
1.2-Dictriocostikana (EDC)	NG	1.0							
12-Ubronouinaria (EOB)	(HD)	1.0							
Nacioniene	ND	2.0							
1-Methylnapritherenk	ND	4.0							
2-Methylnaphthalene	ND	4.0							
Apetone	ND	10							
Bromobenzene	ND	1.0							
Bromodichloromethane	ND	1.0							
Bramoform	ND	1.0							
Bromomethane	ND	3.0							
2-Butanone	ND	10							
Carbon disulfide	ND	10							
Carbon Tetrachloride	ND	1.0							
Chiorobenzene	ND	1.0							
Chloroethane	ND								
Chloroform	ND ND	1.0							
Chloromethane	ND	1.0							
2-Chlorotoluene	ND	1.0							
4-Chlorotoluene	ND	1.0							
cis-1,2-DCE	ND	1.0							
cis-1.3-Dichloropropene 1.2-Dibromo-3-chloropropene	ND	2.0							
1,2-Dibromo-3-chicropropane Dibromochicromethane	ND	1.0							
Dibromochioromethane	ND	1.0							
1.2-Dichlorobenzene	ND	1.0							
1,2-Dichlombenzene	ND	1.0							
1.4-Dichlorobenzene	ND	1.0							
Dichloroddfundomellia ke	- ND	1.0							
1,1-Dictionwidhane	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							
all and an open parts									
Qualifiers:									
 Value excessis Maxim 		areal.	в			cisked Method B	struk		
15 Barryle Dilund Durit	Manx		E	Value shrive o				-	
H Holding times for prep	inestion or endlysis	escential -	I			stitution family		Page 7	of 13
ND Not Detected at the Ra			Р	Sample pH N					
R RPD outside accepted			RL	Reporting De	tection Limit	re is out of humi			
1 To Recovery outside a			92.						

Hall Environmental Analysis	Laborat	ory. Inc.		Lab Order 1707828 Date Reported, 2/2/2017	
CLIENT: Souder, Miller and Associates Project: Hart Canyon 2 Lat. (Dr. 1701)825-001	Matrix: J		Collection I	e 1D: West DGT haie: 1/26/2017 7:33:00 AM Date: 1/27/2017 8:40:00 AM	
Analyses	Result	PQL Qual	Units	DF Date Analyzed	Batch
EPA METHOD 52608: VOLATILES	-			Analyst	DJF
	400	0.60	mol.	200 1/27/2017 9-80-36 PM	A40344
n-Buly/bonzone	-ND	0.20	mu/L	200 1/27/2017 9:40:36 PM	A40344
n-Propylbaritane	THE	0.20	murt	200 1/27/2017 9 40 36 PM	A40344
sen-Butytberconne	ND	0.20	mpL	200 1/27/2017 SHID 36 PM	M0344
Gigeneta:	510	0.20	ngt	200 1/27/2017 9:40:38 PM	(440364
iert-Butynaeszótte	NO	0.20	mat	200 1/27/2017 9:40 36 PM	A40344
1,1,1,2-Tetrachorpetnine 1,1,2,2-Tetrachlorpetnine	NO	D.40	mpiL	300 1/27/2017 8:40:35 PM	A403H
	0.38	0.20	mal	200 1/2/72017 9.40.36 PM	A40344
Tetrachloroethene (PCE)	0.30 ND	0.20	mail	200 1/27/2017 9:40:36 PM	A40344
Inani-1,2-OOC	440	0.20	molt	200 1/27/2017 9:40:36 PM	A40344
1.2.3-Trichlorobertere	NO	0.20	mail	200 1/27/2017 9:40.36 PM	AADM
1,2,4-Trichlorobertzene	NO	0.20	mig/L	200 1/21/2017 B:40:36 PM	A4034
1,1,1-Trichlorettennin	140	0.20	mort	200 1/27/2017 9.40 36 PM	
1.1.2-Trichloroethane	140	02.6	mail.	200 1/27/2017 9.40 36 PM	A4034
Trichtoroethene (TCE)	NO	0.20	reat.	200 1/77/2017 9:40:36 PM	
Trichlarofuloromethine	NO	0.20	malL	200 1/2//2017 9040:38 PM	A4004
1.2.3-Trichkropmanie	H4D	6.40	mail.	200 1/27/2017 0:40:30 PM	
Viryl chionoe	ND-	0:20	mgA	200 1/27/2017 U.40:35 PM	
Rylonen, Total	ND	0.30	mg/L	200 1/27/2017 9-40:36 PM	
Car 1.2 Dishlaroations dA	88.7	76-130	N-Fire	200 1/27/2017 9:40:36 PM	
Eurr 4 Bromotuorobergrene	82.1	76.130	16Rec	200 1/27/2017 9:40:36 PM	
Sur: Dibromofucrometherm	100	70-130	Silten	200 1/27/2017 9:40:35 PM	
Sur Tokeno-di	87.5	70-130	%Rat:	200 1/27/2017 10-40.5m PM	A4034

Refer to the OC Summary report and a	ample login checklist for flagged QC data and preservation information.	

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Qualifiers:

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QC SUMMARY REPORT WOR 1707015 Hall Environmental Analysis Laboratory, Inc. 02-Feb-17

EPA Medisel 8566B. VOLATILES 40344 1284655 Units: µg/L : LowLonit HepLint 1989D RPDLint Oual
40344 1264655 Units: µg/L : LowLonit HepLanit 19.RPD RPDLinit Dual
126455 Units: ug/L LowLanit (HepLanit 15RPD RPDLinit Qual
LowUmit Heplumit 19895 RPCUmit Ouel
F 70 130
5 70 130
2 70 130
5 70 130
EPA Mithod 1250B: VOLATILES
40344
1264956 Linia pg/L
LowLimit HighLimit %RPD RPOLimit Que
0 70 130
1 70 130
7 70 130
s 70 2 70 5 70 EPA Mathod 40344 1264956 2 LowLimit 0 70 1 70

	IMARY ironmenta				ory, Inc.					Wite	17031828 02-Feb-11
Client: Project:	Souder, N Hart Can	tiller and yon 2	Associa	nen							
Bangila ID 10	log los?	-Serrej 1	yper LD	10	Tes	Code: E	PA Method	0250D; YOL	ATTLES		
Client ID LD	SW	Batc	D: AN	8344	6	unNo: 4	0344				
Prep Date		Analysis I	ante: 1/	27/2017	E	HIND. 1	254956	Units: µo/L			
Analylia		Read	POL	TODY with m	SPK Ref Val	NPEC	LowLimit	HighLimit	ILRPD	RPDLimit	Qual
1-Dichloroettwini		20	1.0	20.00	aris nel val	102	70	130	100	nr ssam	Scott
Dictrionaliture (T)		19	1.0	20.00		95.2	70	130			
Sur. 1,2-Dichlor		0.8		10.00		88.1	70	130			
Sur: 4-Bromofle		8.3		10.00		83.0	70	130			
Sur: Dibromoflu	oromethane	9.7		10.00		96.6	70	130			
Sur: Toluene-di	1	9.8		10.00		97.6	70	130			
Sample ID 17	01b28-001a ms	Swnpi	ype Ms	5	Tes	Code B	PA Method	82608: VOL	ATRES		
Client ID: Ea	TDB ta	Batt	A DI	0344	F	lunha 4	0344				
Prop Dole	0.070	Analysia				icatio, 1		Uniter regel			
Analyss		Result	POL		SPK Ref Val	KREC	LiniLini	HighLinit	ALAPD	RPDLim	Quat
Bertame		4.5	0.20	4.000	0.5447	99.3	70	130			
(Auro)		6.9	0.20	4.000	1.115	04.1	70	130			
Distribution		3.7	0.20	4.000	- U	61.9	70	(.90			
1,1 Dicritoperturna		4.4	0,20	4,000	D.	102	70	130			
Trichioroethene (T		4.0	0.20	4.000	o	101	70	130			
Sur: 1.2-Dichlor		2.0		2.000		98.2	70	130			
Son 4-Broneffe		1.6		2,000		79.0	70	130			
Sur. Devenally		2.0		2,000		98.9	70	130			
Sor. Tolvene d		1.9		2.000		97.0	70	130	_		
Sample ID 17	01628-001a ms	d Samp	ype M	6D	Tes	Code E	PA Method	62688: YOL	ATELES	_	1
Client ID: Ea	st BGT	Balo	h ID: A	0344	F	tunNo: 4	0344				
Prop Dale		Analysis (Dala: 1	27/2017		iecNo 1	264964	Units: mg/L			
Analyte		Result	POL		SPK Rul Val	WRED	LowLimit	HighLimit	%RPD	RPDUmil	Oral .
Sections		- 44	0.50	4.000	0.5447	97.0	70	130	2.05	30	
Toksene		4.9	0.20	4.000	1.115	95.0	70	130	0,733	20	
Chlorobenzene		3.7	0.20	4.000	U	92,4	70	130	0.562	20	
1,1-Dichloroethene		3.8	0.20	4.000	0	94.1	70	130	8.51	20	
Indianation ()		3.9	0.20	4.000	0	97.2	70	130	3,77	20	
Surr. 1,2-Dichlor		2.0		2.000		30.1 82.8	70	130	0	0	
Sur: 4-Bromofil		1.7		2.000		82.8	70	130	0	0	
Sar Derench		1.0				99.3	70	130	0	0	
wolf: Tokustie-di		2.0		2.005		99,3	70	130	0	0	
								Sec. 2			
Qualifiers:		(other states)	Level.					ood Method Bla	and .		
* Value est	enda Maximum C						similar range				
A Villanesi 11 Sample D	Nieted Duc to Mat	Dir.									444
 Value est Sample D Holding t 	Niloted Duc to Mat innes für preparati	onic ion ior analys	is exervit	di .	1 Analysis	detected	intere quantit			Page 9 c	f13
 Value est Sample D Holding t ND Nos Deter 	Nieted Duc to Mat	pix inn isr analys org Lionsi	is coursel	a .	l Analysi F Sample		ndra quanti Rango			Page 9 c	of 13

QC SUMMAR' Hall Environmen				ory. Inc.					WO	170183
Illent: Souder	, Miller and anyon 2	-	-							
Smullm ID Inav29925	Barnot	n= LO	3	Test	Gode El	AMethod	8279C: PAHa			
Carel ID: LCSW		ID: 29			unito: Al					
Prep Date: 1/27/2017	Analysia D				inchio: 12		Unite uply			
	Result	POL		SPK Ref Val	MREC	LowLinit	HighLivit	1.RPD	RPDLimit -	Qual
Analyte Naphtulera	reesun 14	0.50	20.00	DPA Har Val	B/.9	37.4	120	ind D	in acany	Senti
-Menylocilitatione	13	0.50	20.00	a	64.5	39.3	421			
	13	0.50	20.00	0	65.2	37.8	122			
Mathyl add Bakine	13	0.50	20.00	0	73.9	37.0	124			
Acenaphmytene	15	0.50	20.00	0	72.9	35.6	123			
Acanaphithene	15	0.50	20.00	0	17.0	35.0	123			
Fluckmenel		0.50	20,00	0	73.0	38.8	125			
Themenitivens	15			0	72.0	38.8	125			
Anthracene	14	0.50	20.00	0	72.0	37.5	125			
Fluoranthene	14	0.50	20.00	0	73.1	27.5	131			
Pyrene			20.00	0	73.1	25.4	140			
Benziajentroscene	15	0.50		0	74.7	23.4	141			
DinyWine	15	0,50	20.00	D		31	155			
Benacib) Ruorantzierre	15	0.50	30.00	0	75.4	38	154			
Benzo(k)fluoranthene	14	0.50	20.00				154			
Benzo(a)pyrono	14	0.50	20.00	0	72.3	38.6	153			
Dibenz(a,h)anthracene	15	0.50	20.00	0	77.4	39.7				
Benzorg A (purylauk	-14	0.50	20,00	0	72.5	39,6	154			
indenc(1,2,3-c0)pyrene	15	0.50	20.00	ū	73.6	19.1	153			
Surr: N-hexadecane	65		87.60		73.8	15	176			
Sur: Benzo(e)pyrene	14	-	20.00	- ALL ROBORT	21.4	150	196			
Sample ID lead-29025	Samp	Type: LO	:50	Tel		PA Method	8276C: PAH			
Clerin ID LCS507	(Seek)	i 10. 25	923		inter 4	1003				
Prep Dela: 3/27/2917	Analysia I	Me 1	130/2017		500740 3	265827	Units jug/L			
Analyte	Result	POL	SPK value	SPK Ref Val	INREC	LowLimit	HighLimt	%RPD	RPDUmit	Quel
Napresidente	12	0.50	20.00	0	61.5	37.A	120	9.69	20	
i-Metryinaprimaterie	13	0.50	20,00	0	63.9	39.3	121	0,935	28.8	
2-Methylnaphthalene	12	0.50	20.00	0	61.6	37.8	122	5.68	23.8	
Nenaphitymme	73	0,50	20.00		65.0	37	124	11.3	28.0	
homophiltene	- 14	0.50	26.00	ò	68.6	35.8	123	8.08	27	
Fluorene	15	0.50	20.00	0	72.6	35.2	122	5.88	25.7	
Phonanthrene	15	0.50	20.00	0	73.2	38.8	122	0.274	20	
Anthracene	15	0.50	20.00	0	75.5	37.5	125	4,75	21.2	
Fluoranthene	15	0.50	20.00	0	73.4	37.4	131	3.04	21.8	
Pyrene	15	0.50	20.00	0	77.4	27.5	140	5.71	31.1	
Benzia)anthracene	16	0.50	20.00	0	78.0	25.4	141	0.772	26.6	
Chrysene	15	0.50		0	73.8	33.6	155	1.16	21.2	
Beruujk)/fuoranthere	15	0.50	20.00	0	73.3	30	153	2.82	20	
					_					
Qualifiers:							Sec. 2			
		Lovel.					and Minimal Pil	and the		
 Value excends Maximu 				E Value:	above quas	atitation carg				
 Value seconds Mastern D Sample Delated Duc to 										
 Value excends Maximu D. Sample Delated One to H. Holding times for prepared 	antion or analys	is etanti	- ba	I Analys			tating limms		Page 10	of 13
 Value excends Maximu D. Sample Detailed Onc to: 	anation or unallys porting Linus	in etansi	bà	I Analys 7 Sample	e descered a pHI Not h ing Detect	n Range	balloo Brons		Page 10	of 13

Hall Environmen		_								
	a, Miller and	Associa	ates							
Project: Hart (Canyon 2									
Campie (C (cad-C1925	Gempi	ne Lo	ab	Tes	(Code: E	AMellicul	B270C PAH	2		
Clinit ID: LCSS82	Diate	10 29	825		Linkia d	1900				
Prep Date: 1/27/2017	Analysis D	lato: 1	/30/2017		SegNo: 1	265827	Units: µg/L			
Analyte Seruth Microsoftene	Result 14	PQL 0.50	SPK value 20.00	SPK Ref Val	%REC	LowLimit 38	HighLimit 154	%RPD 2.47	RPDLimit 21	Qual
Batrockippene	14	0.50	20.00	0	71.7	38.6	153	0.792	24.8	
Dibenz(a,h)anthracene	15	0.50	20.00	0	75.0	39.7	155	3.15	26	
Benzo(g.h.)perylene	14	0.50	20.00	0	70.6	39.6	154	2.00	20	
indeno(1,2,3-cd)pyrene	15	0.50	20.00	0	74.2	19.1	153	0.812	20	
Sur: N-hexadecane	58		87.60	-	66.1	15	176	0	0	
Sur: Benzo(s)pyrene	15		20,00		73.4	15	188	0	0	
Security 10 mill-29825	Servel	ype M	BLN	Tes	icade e	A Mathod	B278G: PAN			
Client ID: PBW	K.	10 29			anko 4		1.011.0010			
Prep Date: 1/27/2017	Analysis E				SegNo: 1		Units: µg/L			
Analyte	Result	POL		SPK Ref Val			HighLimit	%RPD	RPDLimit	Qual
Naphthaliene	ND	0.50		OF IN THE VAL	AIGLO	CONCILIE	righting	ANY D	To Dunn	400
L-Mirhylinachthalama	ND	0.50								
5-Melhylmapinhalenis	ND	0.50								
Acenaphitylene	ND	0.50								
Acenaphthene	ND	0.50								
Fluorene	ND	0.50								
Phonenthrone	ND	0.50								
Anthracene	ND	0.50								
Fluoranthene	ND	0.50								
Pyrona	ND	0.50								
Benz(a)anthracene	ND	0.50								
Chrysenu	ND	0.50								
Sarms(b) was	ND	0.50								
Benzo(k)fluoranthene	ND	0.50								
Benzo(a)pyrene	ND	0.50								
Dibenz(a,h)anthracene	ND	0.50								
Benzo(g.h.i)perylene	ND	0.50								
Indeno(1,2,3-od)pyrene	ND	0.60								
Surr: N-hexadecane	68		87.60		77.6	15	176			
	16		20.00		80.6	15	198			
Surr: Benzo(e)pyrene										
Qualifiers: * Value exceeds Maximu		Level.					ated Method Bla	ak		
Qualifiers: * Value exceeds Maximu D Samole Dilated Due to	Matrix		al	E Value a	hove quan	titation range	e	nk	Pres 11 o	(13
Qualifiers: * Value exceeds Maximu D Samole Dilated Due to	Matrix amilion or analysi		al	E Value a J Analyte	hove quan delected	titation range clow quante	e	ak	Page 1) o	(13
Qualifiers: * Value exceeds Maximu D Samole Diluted Date to II Ifolding turnes for prop-	Matrix antiion or analysi porting Limit		al	E Value a J Assulyte P Sample	hove quan	titation range elow quantie Kange	e	ek	Page 1) o	rus -

ID PRW Bailch ID: 2598/2 Hur Date: 1/30/2017 Analysis Date: 1/30/2017 Sec ylei Heautit PQL <spk td="" value<=""> SPK value SPK Ref Val Sec ylei No.00020 No.00020 No.00020 TestC TestC pN ID LCS-2994/2 Berrsp.Type: LC5 TestC TestC tDL LCS-2914/2 Berrsp.Type: LC5 TestC TestC tDL LCSW Berrsp.Type: LC5 TestC TestC<th>Ar EPA Muthod 17170; Minnany 60: 40380 40: 1266211 Units: UpU REC LowLimit HighLamit 'NRPD RPDLimit Qual 25: EPA Mathod 7470; Mencury 40: 4399 46: 1266213 Units: UpU 46: 1266213 Units: UpU 46: 1260 100 100 100 100 100 100 100 100 100 1</th><th>Citent: Souday, Project: Hart Car Barrye ID LCR-42931 Darrye ID LCR-42931 Darrye ID LCR-42931 Darrye ID LCR-42931 Darrye ID LCR-42931 Darrye ID LCR-42931 Darrye ID LCR-42931 Control MB-29331 Citent ID LCR-42931 Control Darrye ID LCR-42931 Citent ID LCR-42931 Citent ID LCR-42931 Citent ID LCR-42931 Citent ID LCR-42931 Citent ID LCR-42931</th><th>SempTrps://LCB TraitCasic EPA 69169; Tek Batch (D: 29931 Fluwfer: 40375 Sarght: 526821 IX Romet: Date: 12362717 Sarght: 526821 IX Romet: 26020 5900 945.2 80 0.46 0.020 5900 945.2 80 0.47 0.020 0.5900 934.4 80 0.47 0.020 0.5900 934.8 80 0.47 0.020 0.5900 934.8 80 0.47 0.050 0.5900 934.8 80 0.46 0.050 0.5900 934.8 80 0.46 0.050 0.5900 934.8 80 0.46 0.050 19351 RumMin: 40275 30 SampTrpm: 1498217 SampLin: 1568243 0 Resold POL 5590 statue 556 Rol Val 8REC 104118 ND 0.020 ND 0.020 ND 0.020 ND 0.020 N</th><th>siti: mg/L tgg/Linm %LRPD RPDLimit Qual 120 120 120 120 120 120 120 120</th></spk>	Ar EPA Muthod 17170; Minnany 60: 40380 40: 1266211 Units: UpU REC LowLimit HighLamit 'NRPD RPDLimit Qual 25: EPA Mathod 7470; Mencury 40: 4399 46: 1266213 Units: UpU 46: 1266213 Units: UpU 46: 1260 100 100 100 100 100 100 100 100 100 1	Citent: Souday, Project: Hart Car Barrye ID LCR-42931 Darrye ID LCR-42931 Darrye ID LCR-42931 Darrye ID LCR-42931 Darrye ID LCR-42931 Darrye ID LCR-42931 Darrye ID LCR-42931 Control MB-29331 Citent ID LCR-42931 Control Darrye ID LCR-42931 Citent ID LCR-42931 Citent ID LCR-42931 Citent ID LCR-42931 Citent ID LCR-42931 Citent ID LCR-42931	SempTrps://LCB TraitCasic EPA 69169; Tek Batch (D: 29931 Fluwfer: 40375 Sarght: 526821 IX Romet: Date: 12362717 Sarght: 526821 IX Romet: 26020 5900 945.2 80 0.46 0.020 5900 945.2 80 0.47 0.020 0.5900 934.4 80 0.47 0.020 0.5900 934.8 80 0.47 0.020 0.5900 934.8 80 0.47 0.050 0.5900 934.8 80 0.46 0.050 0.5900 934.8 80 0.46 0.050 0.5900 934.8 80 0.46 0.050 19351 RumMin: 40275 30 SampTrpm: 1498217 SampLin: 1568243 0 Resold POL 5590 statue 556 Rol Val 8REC 104118 ND 0.020 ND 0.020 ND 0.020 ND 0.020 N	siti: mg/L tgg/Linm %LRPD RPDLimit Qual 120 120 120 120 120 120 120 120
Instruction MBLX Tenuicity mil ID PBW Bailch ID 29642 Flair p Date: 130/2017 Analysis Date: 130/2017 Sec pble: Result POL SPK waxe SPK Ref Val Sec pble: No 0.00200 No 0.00200 Tenuicity mple: D.LCS-20942 Bernp Type: LCS Tenuicity Tenuicity pble: D.LCS-20942 Bernp Type: LCS Tenuicity Tenuicity pble: D.LCS-20942 Bernp Type: LCS Tenuicity Tenuicity pble: D.Sec: 1.976/2017 Analysis Date: Tenuicity Tenuicity pble:	Ki: 40380 Ki: 1266211 Uniti: ug/L REC LowLimit: HighLanit 'SIRPD RPDLimit Dual die EPA Matikod 7470: Mercuny Ki: 4086212 Hot 1266212 Uniti: ug/L Ki: 4020 PPDLimit: Dual	Client ID: LCBW Prep Date: 1/27/2017 Availyte Barkam Cambries Comman Selerkon Selerkon Selerkon Selerkon Selerkon Selerkon Selerkon Selerkon Selerkon Selerkon Selerkon Selerkon Cathaan Cathaan Cathaan Cathaan Selerkon S	Batch (D. 2993) Pluritie: 40375 Anneyeis Date: 1332297 Seq3e: 1258297 Seq3e: 1258297 Read:: PCE SRK value: SFK Pid Val: VLREC: Lock:min H 0.47 0.020 0.5000 94.2 e0 0.48 0.020 0.5000 95.4 80 0.47 0.020 0.5000 95.4 80 0.47 0.020 0.5000 95.2 80 0.47 0.020 0.5000 95.2 80 0.47 0.020 0.5000 95.2 80 0.46 0.050 0.000 95.2 80 0.46 0.050 0.000 95.3 80 0.46 0.050 0.000 95.3 80 0.46 0.050 0.000 95.3 80 0.066 0.0000 95.3 80 90 SampType: MBLK TestCode EPA 40101: Fe4 90 ND 0.020 ND 0.020 ND <	siti: mgit. tggitime SizPD RPDLimit Oual 120 120 120 120 120 120 120 120
mpa KD LCS-25942 Barmp/Yyor LCS Team mm ID LCSW เรณะการวิวช9442 Run อ Claix 1/280/2817 ลิ่งเข มหู่เล Revus PCC SPR เหม่อ SPR Ref Vol 1	va 48399 He 1266252 Unitis ugil. REE LouLinit Harlunt NJRPD PPDUmit Qual	Ratam Earning Comman Selanium Sime Sample D. MB-29831 Client (D. PBW Preschafter : 1/27/2017 Ansityte Barium Caterium Selarium Caterium Selarium Selarium Selarium Selarium Caterium Selarium Selarium Caterium Selarium Selarium Caterium Selarium Selarium Selarium Caterium Selarium Se	0.48 0.020 0.5000 0 95.4 80 0.47 0.020 0.5000 0 95.4 80 0.47 0.0201 0.5000 0 95.3 80 0.46 0.0500 0 95.3 80 0.46 0.0500 0 95.8 80 0.468 0.0500 0 92.8 80 0.0466 0.0500 0 92.8 80 Analysis TestCode EPA 40108: Fot Batch 10: 2931 TestPA 40108: Fot Analysis 1092251 TestPA 10144: 40275 Mol ND 0.020 ND 0.050 ND ND 0.020 ND 0.050 ND ND 0.050 TestPA 60108: Fot Fot SampType: LC5 TestPA 60108: Test SampType: LC5 TestPA 60108: Test Batch 1D: 29291 RunNo: 40375 Analysis Date: 12902217 SeqNo: 1285455 U <tr< th=""><th>120 120 120 120 120 120 120 120</th></tr<>	120 120 120 120 120 120 120 120
		Client ID: PBW Press Date: 1,27/2017 Avanyse Barum Catham Catham Catham Sterrum Sterrum Sterrum Sterr Sterrum Client ID: LCB-29031 Client ID: LCB-29031 Client ID: LCB-29031 Client ID: LCB-29031 Client ID: LCB-29031 Client ID: LCB-29031 Client ID: LCB-29031	Batch ID: 2931 FluerMin: 40275 Analyses Date: 1790X577 Samphin: 1580X577 Userphin: 1290X567 Userphin: 1290X577	utte mgét. Sight Inte 19.8PD RPOLimit: Dual La Rinsuverable Mélais Ints: mgft.
		Sample ID. LCB-29631 Client ID: LCSW Prep Date: 1/27/2017 Analyte Lee/	SampType: LCS TimUCrace EPA 80108: Tore Balch ID: 29931 RunNo: 40375 Analysis Date: 130/2017 SeqNo: 1255655 U Result POL SPIN Maile: SPIN Maile: SPIN Maile: SPIN Maile: LowAmile: I	inits: mg/L
		Semple ID MIB-29901		HighLimit %RPD RPDLimit Daal
		Cileni ID: PBW Prep Date: 1/27/2017 Anniyth	SampType MBLK Transloalu: EPA 60168; Tot Balex ID: 29234 RunNo: 40376 Analysis Date: 1/30/2017 SeqNo: 1255556 Result PQL: SPK value: SPK Ref Val: IREC: LowLimit. //	Jnits: mg/L
> Not Detected at the Keporting Limit P Sample pl RPD outside accepted recovery limits RL Reporting	tered brow quantization limit: Page 12 of 13 (vo. In Range Detection Limit, nation: temperature is out of limit as specified	H Holding turnes für prega- ND Not Dencested as the Rep- R RPD outside accepted re S % Recovery outside of n	orting Linm. P Sample pil Not in Range	out of limit as specified
Allean Standard Stand	NRI Handra Miter managemental Coar International Co	HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenviormentel.con kine NE. Altonomentel.con Microle Tex.col.2014.010		Live Repeat TCUP do at TCUP Livelts Enterprise or Ton Loved
2. Is Chain of Oustody completel? 3. How was the sample delivered?	res i 1 140 i Hecht Present M es M He Her Present	SOS -	(yino se) H9T + 38TM + X3T6 (ORM / ORO / ORO) 85/08 H9T (1.87b bo()9M) H9T (1.402 borlaM) 903 (1.402 borlaM) 903	Remarks
Log In	teer with the California Lat		(1208) 9.841 # 81.04 + X31.8	H Sugar
4. Was an attempt made to cool the samples?	es M No EL NA L'I		128	The Two
 Were all samples received at a temperature of >0° C to 6.0°C 				
4. Ware an attempt made to cool the samples? 5. Ware all samples received at a temperature of >0° C to 6.0°C 6. Ecomple(s) in proper container(s)?	'es 🕅 Νυ [.]	0		Date T
Wate an interrot made to cool the samples? Were all samples received at a temperature of >0° C to 6.0°C Soften all samples received at a temperature of >0° C to 6.0°C Soften all samples received at a temperature of >0° C to 6.0°C Soften all samples received at a temperature of >0° C to 6.0°C Soften all samples received at a temperature of >0° C to 6.0°C		HSAP * 2	No 1842	tion two they want

No [1]

No 🖌

No L

Via: [eMail [Phone [Fax] In Person

NA MI

No VOA Viate

No Se Sof preserved ten Control to other No Control No Checked by: R

Yes M

Ves W.

Yes M Yes M

Tes I.I.

Date |

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1S Center Information <u>Conter No.</u> Temp 10 Coverision Septi marct @out No. Blues Date By 1 1.8 Good Yes

10, VOA wale have zero headspace?

Special Handling (If applicable)

Person Notified:

By Whom: Regarding: Client Instructions:

17. Additional remarks

Page 1 of 1

11. Were any sample containers received broken?

12 Does purposed match bottle labels? (Note discrepencies on chain of outlody) (3, ner matrices correctly standards) (4, li il claimt while answers ware requested? 15. Viewe all holding times able to be met? ((fr no, notify outloamer for authorization.)

16. Was client notified of all discrepancies with this order?

Sampler Roudy Wartson On bor Series II No Sample Tromperation L.9 - OF - P the state 01.1 XRush ASI HART CANYON " Project Marrager Ashieles Maxicell Town Lenves (Mutuber Preservative Vendes Vanue Tum-Nound Time: & Standard Project Name: YARIOLS Container Type and # (beion as C Level 4 (Full Velidation) Sample Reguest ID Chain-of-Custody Record Ciert tall EAST ISGT West EGT C Olher HzO Mality Ngi 15E:1E C Package Time underd ditation ELAP (Lype) E

E

199 Muster Deb

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Т

Distnics J 1625 N. Frankly Dr., Huldon, HM (DDAG)	State of New Mexico	Furm C-138
Diaries II 1301 W. Grand Avinus, Anessa, NM 88210	Energy Minerals and Natural Resources	fileward (8501/) 1
Distruct III 6000 ILio Branis Road, Aztec, NM \$7410	Oil Conservation Division	"Surface Waste Management Facility Operator- and Generator shall mantain and make this
DIMPHERY	1220 South St. Francis Dr. Santa Fe, NM 87505	documentation available for Division impertion.
2015 St. Etuscul Dr., Sanda Fo, NM \$7505	and the second	SOL ID MUSTE
Generator Name and Address:	FOR APPROVAL TO ACCEPT	SOLID WASTE
interprise Field Services, LLC, 614 Rei	illy Ave, Farmington NM 87401	
2. Originating Site: MAPL Huerfuno Pumping Station		
 Location of Material (Street Address UL L Section 21 Township 26 North R 	s, City, State or ULSTR): Range 10 West; 36:471831, -107.900114	
Description: Non Exempt/Non-Mipardons	WasteWater Tanks and from the compressor skid Water from the compressor skids. wn Volume (to be entered by the operator at the on	
5. GENERA	TOR CERTIFICATION STATEMENT OF WA	ASTE STATUS
Generator Signature certify that according to the Resource Con-	or authorized agent for Enterprise Products Operat servation and Recovery Act (RCRA) and the US E	invironmental Protection Agency's July 1988
RCRA Exempt: Oil field wastes	ibed waste is: (Check the appropriate classification generated from oil and gas exploration and produc	tion operations and are not mixed with non-
RCRA Non-Exempt: Oil field we characteristics established in RCRA n	c: Waste Accessmence Proquency [] Monthly [] aste which is non-incardous that does not exceed a regulations, 40 CFR 261.21-261.24, or listed bacars g documentation is attached to demonstrate the above	he minimum standards for waste humrdous by does waste as defined in 40 CFR, pay 261,
	rdous Waste Analysis 60 Process Knowledge	Coher (Provide description in Son 4)
	WASTE TESTING CERTIFICATION STATE	
GENERATOR 19.15.36.15 V	WASTE TESTING CERTIFICATION STATE	MENT FOR LAUTOFARMS
I, Thomas Long , representativ	e for Enterprise Products Operating authorize to o	arma feate
Generator Signature the required testing/sign the Generator Wa		anjaw.
	5.5.5 S. 5.5.5	
have been found to conform to the specific of the representative samples are attached 19.15.36 NMAC.	stive for <u>Agua Moss, LLC</u> at have been subjected to the paint filter test and to o requirements applicable to landfarms pursuant to to demonstriate the above-described waste conform	Section 15 of 19.15.36 NMAC. The results
5. Transporter: To Be Determined		
OCD Permitted Surface Waste Manag	gement Facility	
Name and Facility Permit #: *Ague Mo Address of Facility: 5W/4 NW/4 Section	ns, LLC - Permis #: NM-01-009 n 2, Township 29N, Range Crouch Ment, NM	
Method of Treatment and/or Disposal:	jection 🔲 Trenting Plant 📋 Landform	LandSII II Other
Waster Acceptance Status:	APPROVED DENIE	D (Must Be Maintained As Permanent Record
PRINT NAME Advicen the	TELEPHONE NO.	(SOS) 5346186
autore many many many		

CLIENT: Souder, Miller and Associates Project: Humfano Station Lab ID: (702072-00)		Larmán		Colloction	Date: 2/	ICT/IND BOT	
Analyses	Result	AQUEOU		Received.		Date Analyzed	Batch
	Kesutt	inte	Que	ting.			
EPA METHOD 7470: MERCURY	100					Analyst	
Mercury	940	0.00020		mgit	. 1	2/2/2017 6:40 31 PM	30033
EPA 6010B: TOTAL RECOVERABLE ME	TALS					Analyst	: pmf
Arseric	NO	-5.6	£	mg/L	× .	2/6/2017 11:55:58 AM	30031
Balan	ND	100		mg/L	1.3	2/6/2017 11:55:58 AM	30031
Cadmiun	ND	1.0		mort	1	2/6/2017 11:55:58 AM	30031
Ovomism	ND	5.0		mg/L	1	2/6/2017 11:55:58 AM	20024
Lowert	ND	5.0		mgL	- T	2/6/2017 11:55:58 AM	20031
Selection	ND	1.0		mg/L		2/6/2017 11:55:58 AM	30031
Silver	10	86		man		2/6/2017 11 55 58 AM	30031
EPA METHOD 8270C: PAHS						Analyse	JDC
Naphthalene	ND	2.5	D	µg/L	1	2/3/2017 12:17:25 PM	30020
1-Moltydraritikuikme	ND	2.5		NOL		2/5/2017 12 17:25 PM	30020
2-Mathylingphilamou	MD	2.5		upt	1.0	2/3/2017 12:17:25 PM	30026
Approximity	ND	2.5		No/L	1	2/3/2017 12:17:25 PM	30020
Acanach/Dana	ND.	25		NOL	1	2/3/2017 12:17:25 PM	30030
Flamman	MD	23		Upt.	1.1	2/3/2017 12:17:25 PM	DANE 20
Programiugan	ND	2.8		ugh		2/3/2017 12:17:25 PM	30020
Avenue	ND	2.5		ug/L	- 1	2/3/2017 12.17.25 PM	30020
Fluoranthene	ND	2.5		µg/L	1	2/3/2017 12:17:25 PM	30020
Pyrena	ND	23		HO/L		2/5/2017 12:17:25 PM	30020
Burnz (a)animauumo	ND	2.8		ugit		2/3/2017 12:17:25 PM	10010
Chrysene	ND	2.5		ugit	1	2/3/2017 12:17:25 PM	30020
Benzo(b)fluoranthene	ND	25		ugit	1	2/3/2017 12:17:25 PM	30020
Benzo(k)fluoranthene	ND	25		ugi	1	2/3/2017 12:17:25 PM	30020
Bencotalciviano	ND	2.5	0	Jou		2/3/2017 12:17:25 PM	30020
Dibenz(a,h)anthracene	ND	2.5	D	UDL	1	2/3/2017 12:17:25 PM	30020
Benzo(g,h,i)perylene	ND	2.5		µg/L	1	2/3/2017 12:17:25 PM	30020
10:00:00(1, 2, 3-cs))pyrmina	ND	2.5		ug1		2/5/2017 12:17:25 PM	30020
Gurr. N hoxadocano	75.6	15-170		79760	+	2/5/2017 12:17:25 PM	30026
Surr: Benzo(e)pyrene	74.3	15-198		%Rec	1	2/3/2017 12:17:25 PM	30020
EPA METHOD 8260B: VOLATILES			-			Analysid	DIE
Benzine	ND	0.50		wBr		0 2/3/2017 5 43 02 PM	W4050
Toluane	0.23	0.20		mg1.		0 2/3/2017 8:43 02 PM	1/4050
Eltryburgere	ND	0.2(mar		0 2/3/2017 6 43:02 PM	W4050
Mothyl tarf-barlyt all rar (MTBE)	ND	0.2		mgit		0 2/3/2017 6 43:02 PM	W4050
1,2,4-T(melloybenzere	NQ	0.20		mgA.		0 2/3/2017 6,43:02 PM	W4050
1,3,5 Trimethylbenzene	ND.	0.20		mgð,		0 2/3/2017 8:43:02 PM 0 2/3/2017 6:42:02 PM	W4050
1.2 Ochlorestane (EOC)		0.20		Jam			
Refer to the QC Summary report an	d sample to	gin checkli	id for I	tagged QC d	tata and p	preservation informatio	ei i
Onalifiers: * Value exceeds Maximum Co		el.				the associated Mothod Blan	c
D Sample Diluted Due to Mairy						tation range	
H Holding times for preparation		record				low quantitation limits Pa	ge 1 of 0
ND Not Detected at the Reporting					H Not In F		2.5.0
R RPO omside accepted recover					g Detection		-
5 % Recovery outside of range	due to dilution	or matrix		W Sample a	condinet te	inperature is out of huit as a	pected

Analytical Report Lab Order 1702072

Hall Environmental Analysis	Laborat	ory, Inc.		Analytical Report Lab Order 1702072 Data Reported	
LIENT: Souder, Miller and Associates Project: Huerbano Station. ab 1D: 1702072-001	Mairis:		Collection	te III: Hurr(ann HGT Date: 2/1/2017 (150:00 PM Date: 2/2/2017 8/00/00 AM	
Analyses	Result	PQL. Qual	Units	DF Date Analyzed	Batch
EPA METHOD 6260B: VOLATILES			-	Anatyst	DJF
1.2 Disranosthane (EDB)	ND	0.20	innñ.	201 2/2/2017 64512 PM	W4050
Napittalene	ND	0.40	mpt	200 2/3/2017 6:43:02 PM	W40507
1-Methylinapritratene	ND	0.80	mg/L	200 2/3/2017 6.43.02 PM	W40507
2-Methylnaphthalene	ND	0.80	mg/L	200 2/3/2017 6:43:02 PM	W40507
Acelone	ND	2.0	mg/L	200 2/3/2017 6:43:02 PM 200 2/3/2017 6:43:02 PM	W4050
Bromohonzy	10.00	0.20			
	NO		mg/L	200 2/3/2017 6:43.02 PM	WHOOD
Bramudictionmetriano	ND	0.20	mart	200 2/3/2017 6:43:02 PM	WA0507
Brandform	NO	0.20	mg/L	200 2/3/2017 6:43:02 PM	WA0507
Brondmathane 8-Butanone	ND	0.00	mg/L	200 2/3/2017 6:43:02 PM	WADGO
	ND	2.0	mg/L	200 2/3/2017 6:43:02 PM	W40507
Carbon disunce	ND	2.0	mg/L	200 2/3/2017 6:43:02 PM	W40507
Carbon Tetrachloride	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W40507
Chieralitenziene:	ND	0.20	mg/L.	200 2/3/2017 6:43:02 PM	W4050
Chieroethune	ND	0.40	mg/L	208 2/3/2017 6.43.02 PM	W40507
Chloroform	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W40507
Chlorpmensenc	NO.	0.60	mp/L	200.2/3/2017 6:43:02 PM	W40507
2-Chiceologuene	NO	0.20	mp/i	300 3/3/2017 6.43.02 PM	W40503
4-Chiorotolu	ND	0,20	mg/L	200-2/3/2017 0:43:02 PM	W40507
cis-1,2-DCE	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W40507
cis-1,3-Dichloropropene	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W40507
1,2-Dibromo-3-chiloropropane	NO	0,40	mg/L	200 2/3/2017 5:43:02 PM	W40003
Dibromochloromothane	ND	0.20	ing/L	200 2/3/2017 6.45.02 PM	Wr40507
Dibromomethane	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W40507
1,2-Dichtorobenzene	ND	0,20	mg/L	200 2/3/2017 6:43:02 PM	W40003
1.5-Diddominanzana	+00	0.26	mg/t	200.3/3/2017 643-02 PM	-W40800
1,4-Dictriginationalization	ND	0.20	mp/L	200 2/3/2017 6:43:02 PM	W40507
Dichlorodittuoronalthiwwe	NO.	0.20	mg/L	200 2/3/2017 0/4/202 PM	VY40607
1,1-Diddonaltorul	ND	0.20	ump/L	200 2/3/2017 8/4//02 PM	W48863
1,1+Dichlorowiltwire	NEX	0.20	mg/L	200 2/3/2017 6:43:02 PM	W40503
1,2-Dichloroproplane	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W40507
1,3-Dichloropropane	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W40507
2,2-Dishloropingane	NO	0.40	Agm	200 2/3/2017 8/43/02 PM	W40503
1,1-Girbingurgana	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W40507
Hissishickbuckdienvi	NO	0.20	mg/L	200 2/3/2017 8:43:02 PM	W40507
2-Hexanone	ND	2.0	mg/L	200 2/3/2017 6:43:02 PM	W40507
Isopropylbenzene	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050
A-Iwopropylicitaerra	NET	0.20	mpil	200 2/3/2017 8:43:02 PM	W40507
4-bhidteyl-2-per-manage	ND	2.0	Term	200 2/3/2017 6.43.02 PM	W40507
Mathylenn Chlorida	7463	0.60	mart	200 2/3/2017 0.43/02 PM	W40501

* Value exceeds Maximum Contaminant Loud

Vulne encode Marinum Contaminant Load
 Sample Distance Date on Marris
 Molding terms for proparation or maliyus accounted
 Min Tancenal as the Reporting Lonal
 RePty condition compared removery limits
 5 % Recovery consider of range date and dilation or status

Qualifiers:

Analyse Advected in the associated Method Black
 E. Value downer quantization range
 Anniye Advected below quantizations thema: Page 2 of 0
 P. Sample control below quantization
 R. Reporting Denoisin Linei;
 W. Sample control concernment is not of lineat as specified

Lab Order 1702072 Hall Environmental Analysis Laboratory, Inc. Dute Reported: CLUENT: Souder, Miller and Associates Client Sample ID: Hoeriano lifer Project: Huerfano Station Lab ID: 1702072-001 Collection Date: 2/02017 1:50:00 PM Matrix: AOUEOUS Received Date: 2/2/2017 8:00:00 AM Analyses Result PQI. Qual Units DF Date Analyzed Batch PRAMETROD 92898; VOLXT Admitherations Interprojectorsel Interproje
 Annihysi. D.J.F

 200 2012/0716 (#4152 PM
 W46507

 200 2012/0716 (#4152 PM
 <t EPA METHOD 82608 VOLATILES Analysi. DJF 70-130 103 109 70-130 70-130 200 2/3/2017 6.43:02 PM W40507 200 2/3/2017 6:43:02 PM W40507

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

- Vilovativeki Maximum Contantinus Loval.
 D Sample Diluted Due to Marix
 H Holding tunes for synaphies or sayloita extended
 H Holding tunes for synaphies or sayloita extended
 HD for Denoted al de Heneritin Lineit
 R HD0 outlink acceptal zonovery lineit
 3 % Recovery outside of range due to dilution or mumx

D Analyse detected in the answeriated Method Blank
 E Value above quantitation range
 1 Analyse detected filler quantitation filler
 P Samula of Nick for Range
 RL Reporting Direction Limit
 W Sample contains rangemine to out of hims an apocified

Analytical Report

Natriet J 625 N. French Lit., Habba, Witt SKN40		e of New Mexico	Form C-138
hattern II 101 W. Grand Avenue, Artusta, NM 18210		erals and Natural Resources	the second define (2.1
Annuel III 000 Aus Breve Road, Amer. NM 97410	1711.01	onservation Division South St. Francis Dr.	and Generator shall sometime and miles that
house IV 220 5 St. Princip Dat, Simila Fr. WM 8750	12202	na Fe, NM 87505	documentation so-ailable for Drysson impaction.
		OVAL TO ACCEPT	SOLID WASTE
Generator Name and Address		orac roaccert	Solito WASTE
Interprise Field Services, LI.C., (614 Reilly Ave, Farmingto	m NM 87401	
Originating Site; Angel Peak Compressor Stati	inan.		
Location of Material (Street 101. E. Section 20 Township 27 !	Address, City, State or Ul North Range 10 West; 36:	LSTR): 561288, -107.926099, San Ju	ir Caunty, NM
b. Source and Description of W iource: Water/Oil from the Non I Pescription: Non Exempt/Non Jia Estimated Volume 100 yd ² (bb)	Ecompt WasteWater Tanks agardous Water from the cot	npressur skids	\sim
5. GR	MERATOR CERTIFICA	TION STATEMENT OF WA	STE STATUS
Generator Signature	rue Convervation and Recov		nvironmental Protection Agency's July 1984
RCRA Exempt. Oil field	wastes generated from oil a		int operations and are not mixed with turn
characteristics established in R	CRA regulations, 40 CFR	261.21-261.24, or listed hamrd	er manumarn standards für waste hazardous by oaa waate as defined in 40 CFR, part 201, we-described waste is non-hazardous. (Check
MSDS Information RCR.	A Hazardous Waste Analys	is 🖾 Process Knowledge	Other (Provide description in Box 4)
GENERATOR 19.15.	36.15 WASTE TESTING	CERTIFICATION STATES	IENT FOR LANDFARMS
Thomas Long Form Long Feature Generator Signature he required testing sign the Genera		iducts Operating authorize to ci ation.	mplen:-
rec	presentative for	Agua Moss, LLC	do hereby certify that
epresentative samples of the oil fu- ave been found to conform to the of the representative samples are at 9,15,30 NMAC.	eld waste have been subject specific requirements appli databed to demonstrate the s	ted to the paint filter test and te cuble to landfarms pursuant to	ted for cloorde content and that the samples Section 15 of 19.15.36 NMAC. The results to the requirements of Section 15 of
Transporter: To Be Determin			
OCD Permitted Surface Waste	Management Facility		
Name and Facility Permit #: *Ag Address of Facility: SW/4 NW/4			
	🖸 İsjection 📋 Treats	og Plant 🔲 Landfarm 🔲	Landfill [] Other
Waste Acceptance Status:	APPROVED	DENIE	D (Must Be Maintained As Permittent Record)

Andy	-	L							
	reem	nan							
Labora	tory]	Manager							
		ins NE							
		ie, NM 87109							
	-								
	-	nomental Analy		atory, Inc.				Analytical Repury Lab Ordey 1009441 Date Reported: 10/3/	1916
		er, Miller and Associat	44					ngel Peak BGT	
Lah ID:		prise Angel Peak	in the	(in more to				5/2016 2:30:00 PM	
	100%	441-001		AOUEOUS	3	tocelved		0/2016 7:30:00 AM	
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4-Mathylene			ND ND	2.0		ng/L		9/13/2016 12:17:00 P	
h-Bullytow			ND	0.60		ng/L ng/L		9/13/2018 12:17:00 P	
	r to th	e QC Summary report	and sample keg	gin checklist for	flags	ged QC d	lata and p	reservation informati	00
Ref					D			is associated Method Bla	
Ref.		Value exceeds Maximum							
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HALL ENVIRONMENTAL ANALYSIS LABORATORY

Souder, Miller and Associates 401 W. Broadway Varmington, NM 87401 TEL: (505) 325-5667

RE: Enterprise Angel Peak

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/9/2016 for like analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accendited tests please go to <u>www hallenvironmental.com</u> 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 checklint and/or the Chain of Cuaody for information regarding the sample checklint and/or the Chain of Cuaody for information regarding the provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided in both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, indicas otherwise initiated. Lab measurement of analytic 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 #NM0190

Dear Tom Long:

October 03, 2016 Tom Long

FAX

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albaquery NII 17100 122, 505-345-4075 P.W. 303-343-4407 Websier years, Kallenvironmental, unit

OrderNo.: 1609441

CLIENT: 3	Sounder	Miller and Associates		0	lient Sam	aple ID: Angel Peak BGT
		rise Angel Peak				m Dane: 9/8/2016 2 30.00 PM
	1004		Alexander	AQUEOUS	6 h	d Date: 9/9/2016 7:30:00 AM
ran the	I ND94	1.001	Marris;	AQUINOUS	Margaret a	a Date 0/0/2018 //30/00 AM
Analyses			Renalt	PQL Qual	Units	DF Dole Analyzed Baich
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2 Melhylpi	lional		ND	200	mail	1 W14/2016 4.58:02 PM 27476
3+4-Methy	phenol		ND	200	mg/L	1 9/14/2016 4:58:02 PM 27476
Prenol			ND	200	mg/L	1 9/14/2016 4 58 02 PM 27476
24-Dinitio	diam.		NO	0.13	Ingit	1 W14/2016 4 58 02 PM 27470
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Hindolin	00/100	000	ND	0.50	mg/L	1 W14/2016 4 38 02 PM 27478
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Pyridine			ND	5.0	mg/L	1 9/14/2016 4:58:02 PM 27476
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5ur: 1,4	4,6-Trii	(onopheno)	27 8	16-148	WRite	1 W14/2016 4:56:02 PM 27476
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Surr: 2-	Fluorob	iphenyl	39.2	35.7-128	%Rec	1 9/14/2016 4:58:02 PM 27476
Sur: 4-	Territor	nyi-ct4	28.7	18.8-115	NRH:	1 0/14/2018 4:58:02 PM 27676
EPA MET	100 74	TO: MERCURY				Analyst print
Marcury			0.00076	0.000220	mgd	1 0/22/2018 3:36:35 PM 27641
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Americ			ND	0.020	mpl	1 9/22/2016 3 45 44 PM 27610
Barium			u.048	0.020	mgL	1 9/22/2016 3:48:44 PM 27619
Cadmium			ND	0.0020	mgL	1 9/22/2016 3:48:44 PM 27619
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Selenium			ND	0.050	mg/L	1 9/22/2016 3:48:44 PM 27619
Bilver			ND	0.0058	mpl.	1 9/22/2016 3:48:44 PM 27619
SPA METH	OD 8	EGANG INCLASED				Analyst: DJF
Benzetar			ND	0.50	mgl	200 9/13/2016 12:17:00 PM R3716
Toluene			8.61	0.20	mail	200 0/13/2016 12:17:00 PM R37151
Ethylbenz	unu		ND	0.20	mg/L	200 9/13/2016 12:17:00 PM R3716
		ther (MTBE)	ND	0.20	mg/L	200 9/13/2016 12:17:00 PM R3716
1,2,4-Trim			ND	0.20	mg/L	200 9/13/2016 12:17:00 PM R3716
1,3,5 Trim			ND	0.20	ingl	200 9/13/2016 12:17:00 PM R3710
1,2-Dichlo			ND	0.20	mg/L	200 9/13/2016 12:17:00 PM R3716
1.2-Ditron	noethar	He (EDB)	ND	0,20	mgl	200 9/13/2016 12:17:00 PM R3716
Refi	ir to th	e QC Summary report as	iù sauple h	gin checklist for i	lagged Q0	C data and preservation information
Qualifiers:		Value exceeds Maximum Co				te detected in the associated Method Blank
	D	Sample Diluted Due to Matri		1		above quantitation range
	. II	Hobling times for preparation		teinese		A CONTRACT OF A
	ND	Teor Detected at the Reporting				te pH Nos in Range
	R	RPD outside accepted recover				rting Detection Limit
	s	% Recovery outside of range				le container temperature is out of limit as specified

Analytical Report Lab Order 1609441

Program Construint of the processing of the procesing of the processing of the procesing of the processing of the pr	CLIENT: Souder, Miller and Associates				He ID: Angel Peak BGT			eder, Miller and Associates			
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K A D based accepted recovery innus KL. Keporting Detection Limit				P Sample p	pH Not In Range		ND Net Descried at the Rey	eporting Limit	F Sumple pit Nos in Range	and a second	100
a 'n accovery outside of range due to diffusion or matrix. W Sample container temperature is out of limit as specified						IN ADECIDE					
		aue to dilution o	a diama a	ti transfere	container remperature to our or many o		5 % Recovery outside of	I range due to dilution or matrix	W Sample container temperature is out of limit as specified		
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Sample ID rb	Examp	Type: MI	DLR	Te	utCaste 6	PANethod	AND AND A CO	ATIELS		-
Court ID PBW	East	5 ID: R	7161		Runha			an case		
Prep Date:	Analysis				SeqNo:		Units: µg/L	1.11		
Analyte	Result	POL	SPK value	SPK Ret Val	1.REC	LonLinit	HighLinsi	SHPD	RPDLimit	Christ
1,1-Distrisropropene	ND	1.0								-
ioxachlorobuladiene	ND	1.0								
-Hexanone	ND	10								
copropylbonzone	ND	1.0								
-Isopropyltoluene	ND	1.0								
Mattyl-2-pentanone	AIE)	10								
Mittylene Chibelde	ND	3.0								
+Bullytenzene	ND	3,0								
-Propylbenzene	ND	1.0								
ec-Butylbenzene	ND	1.0								
Syland	ND	1.0								
ort-Butylbonaone	ND	1.0								
1,1,1,2-Tetrachkroethane	ND	1.0								
1.1.2-Tetrachibroidhani	ND	20								
manuscensine (PCE)	ND	1.0								
ans-1,2-DCE	ND	1.0								
ered 3-Dichoropopere	ND	1.0								
2 3 Tricrevolatorie	ND	1.0								
,2,4-Trichlorobenzene	ND	1.0								
1,1-Trichloroethane	ND	1.0								
1,2-Trichloroethane	ND	1.0								
ichlwoener(TCE)	ND	1.0								
hetlerstuoremeticine	ND	1.0								
2,3-Trichloropropane	ND	2.0								
ingli shiarida	ND	1.0								
Venes Total	ND	1.5								
Sur 1,2-Dknbroethine-d4	10		10.00		102	70	130			
Sun. 4-Bromoliuorobenzene	9.4		10.00		93.8	70	130			
Sur: Dibromofluoromethane	11		10.00		109	70	130			
Sum Tolvine-UB	9.6		10,00		95.7	70	130			
Sample ID 100ng los	SampT	YPHE LC	9	Tes	Code E	PA Mathod	82688: VOL	ATLES		
Client ID: LCSW	Baird	ID: RS	161		willo: 3			CO-MG		
Prep Gete:	Analysis D		3/2016		legNo 1		Units: µg/L			
Anuslyta	Result	POL	SPK value	SPK Ret Val	THEC	LowLine.	HIGHLINE	WRPD	RPOLImit	Quti
initia	21	9,0	20.00	D	105	70	150	-		-
	20	1.0	20.00	0	100	70	130			
oluene	10	1.0								

			April 1	aborat	ory, Inc.					_	#1-Dee-J
Client: Project:		diller and e Anrel P		lics							
Sample ID			Typer LC								
								ezeeq; vol.	ATILER		
Client ID:	LCSW		hic RI			anNo: 3					
Prep Date:		Analysis I	Date: 9	13/2016	1	SeqNo: 1	152624	Units: µg/L			
Analyse 1,1-Dichorpetre		Result 20	POL 1.0	SPK value 20.00	SPK Ref Val	SPEC 100	LowLinell 70	HighLimit	5.RPD	RPDLimit	Qual
Trichlorpethene		20	1.0	20.00	0		70	130			
	(ICE) tioroethane-d4	9.9	1.0	20.00	0	102 98.8	70	130 130			
	duorobenzene	9.9		10.00		98.8	70	130			
	shooromethane	10		10.00		101	70	130			
Sur: Toluene		9.6		10.00		96.4	70	130			
Sample ID	1809441-001a ma	Samp	Type MS	1	Test	Code F	PA Method	8260B: VOL	ATILES		
	Angel Peak BGT		NID RS			iunNa 1					
Prop Dille		Analysis (icqNo: 1		Links Hort			
Analytic		Resor	POL	SPR -alua	SPK Ref Val	NREC	LowLink	HighLinit	NRPD	RPOLIMI	Qual
Bergeni .		4800	200	4000	0.3476	120	70	130			-
Tolland		4/100	200	4000	0.6113	134	70	150			
Distribution		3000	200	4000	ō	95.0	70	190			
1,1-Dichloroethe	ene	4100	200	4000	0	104	70	130			
Trichloroethene	(TCE)	4200	200	4000	0	105	70	130			
	ilorosthane-d4	2100		2000		105	70	130			
Sur: 4-Brome	ofluorobenzene	1900		2000		94,9	70	130			
Sur: Dibromo	alustomethane	2200		2000		110	70	130			
Sur: Toluene	16t	1900		2000		95.4	70	130			
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	1609441-001a ms		ype M								
Client ID:	1609441-001a msi Angel Peak BGT	Bildo	h ID: R3	7161	F	RunNo: 3	7161				
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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Souder, Miller and Acce Project Enterprise Angel Peak Sample ID MB-17641 TeerCode: EPA Method 7470; Mercury Client ID: PBW Batch ID: 27641 RunNo: 37426 Prep Dete: 9/21/2016 Analysis Date: 9/22/2016 Sectio: 1163336 Units mark Analyta Result POL &PK visue SPI Ref Val KREC LowLenii, HighLand SkRPD RPDLani, Qual NO 5.00025 samplyoe: LCS Gemple ID. LC5-27641 TaxtGode: EPA Method 7470. Mercury Client ID: LCSW Butch ID: 27641 Runfic: 37426 Prep Date: 9/21/2016 Analysis Date: 9/22/2016 SeqNo: 1163337 Units: mg/L Analyte Result POL SPK value SPK Ref Val INREC: LewUmit HighLimit 3uRPD RepDLimit Juni 0.0046 0.0020 0.005000 0 92.2 80 130

West Lowess

03-00-16

Value exceeds Maximum Contaminant Level

- Sample Solvens Monitorin Contaminat Level.
 Sample Solvens Matrix
 Holding times for preparations or analysis exceeded
 Mol Detailed Date to Matrix
 Market Market Matrix Matrix
 Solvense Matrix Matrix
 Solvense Matrix Matrix
 Solvense Matrix

- Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Somelie pH foot In Rouge
 RL Rayning Detection Limits
 W Sample container temperature is out of limit as spe Page 7 of 7

e is out of limit as specified

	XX	TM + X3T8 88100 H9T HUM) H9T HUM) H9T 100) H9T 100) 803 H45 M 5 AP3 H FAP3 100 H2 H00 H2 H00 H2 H00 H2 H00 H2 H00 H2 H00 H2 H2 H2 H2 H2 H2 H2 H2 H2 H2 H2 H2 H2	10.08 0 No BE + 1 BE + 1 BE + 1 1,000 418 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SH CSOB CS	Nor, con. Ton long / buly Marod (200 00) (90 00)		erprise Angel Peak		
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HALL ENVIDONMENT AHALYSIS LABORATORY mist Analysis Labo Hall Knylein Ann Hawking NE Sample Log-In Check List 19-0 TEL. 355-343-3773 FAX: 303-345-410 Website: www.hall Work Order Number: 1609441 Client Name: SMA-FARM Repline: 1 ogloglu Received byrdate: AG 0 - siller Loggod By Lindsay Mangin 9/9/2018 7:30:00 AM 0-yilligo 89/2018 8:34:55 AM Completed By: Undersy Mangin Having by JC 09/09/14 Yes 🖸 Nu D Not Present 1. Castody male intest on sample bolling? Van 🗹 No. D Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In NA IT No ⊡ Yes W 4. Was an attempt made to cool the samples? NA [] No 🗆 5. Were all sumplus monived at a temperature of >0° C to 6.0°C You M No 🗆 6. Sample(s) in proper container(s)? Yes R Yes 🗹 No 🗆 7, Sufficient sample volume for indicated test(s)? B. Are samples (except VDA and ONG) property preserved? No 🖂 Yes 🗹 No 52 NA I B. Was preservative added to bottles? Yes D Yes 🕅 Yes 🗖 10, VOA viala have zero hexispace? No D No VDA Viale D 11. Were any sample containers received booken? No MI # of preserved ootilas checked for pH: Slot = 12 unitade noted) Yan 😥 NO D Adjusted 12. Does peperwork match bottle labele? (Note disorepancies on chain of costody) Yes M No II 13, Are matrices correctly identified on Chain of Custoay? No 🗆 Checked by: and 14, is it clear what analyses were requested? Yes S 15. Were all holding times able to be mell (If no, notify customer for authorization.) Special Handling (If applicable) No LL Yes 🗐 NAM 16. Was client notified of all discrepancies with this order? Person Notified: Date Vie: eMell Phone Faix in Person By Whom: Regarding: Client Instructions 17. Additional remarks 18. <u>Cooler Information</u> <u>Cooler No.</u> <u>Temp 47:</u> <u>Doortton</u> <u>Seed Inset Seed Ho</u> <u>Seed Davis</u> <u>Bigned By</u> <u>It</u> <u>2.9</u> <u>Good Yes</u> Page 1 of 1

Do Not Take AT pretty Lady

State of New Mexico District J 1025 N. French De., Holdes, MAA KKIAR Form C-138 Energy Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Diarsa B 1101 W. Grand Avenue, Atrone, NAI 68210 Surface Waste Manusceness: Fucility Operators and Generators shall traincare and make this inconsectation available for Division importion. District III 1000 Rin Tirgans Road, Arms, NM 87410 Dimmer IV 1220 & St. Francis Dr., Since Fe, NM 67503 Santa Fe, NM 87505 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 Comparing and Clark Location of Material (Street Address, City, State or ULSTR): UL I Section 18 Tawnidg 24 North Range 5 West, 36:310358, -107.395766, Son. Joza County, NM. 4. Source and Description of Waste: Saurce: Water/Oil from the Non Eveny 2 npt WasteWater Tanks and from the compressor skid drams Description: Non Exempt/Non Magadons Water from the compressor skids. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS 5. I, Thomas Long 2 representative or authorized agent for Enterprise Products Operating do hereby 1, Homan Longer - expression and 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 explorations and production operations and are not mixed wab inter-exempt waste. Operators Fits Only: Water december 25 approach Fitsproach [] Workly [] Por Lund 20. DA. Sun-Lasenge: Gli field waste which is non-hizardous that does not exceed the minimize itanizardi for waste hazardous by characteristus established in RCRA regulations, 40 CPU 261, 21-261, 24, or isited hazardous waste as defined in 40 CFR, put 261, subpart D, as anended. 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 How Ly, representative for Enterprise Products Operating authorize to complete Generator Signature the required testing/sign the Generator Waste Testing Certification. I, ______, representative for _________ Agaa Moss, LLC ________ do hereby certify that representative samples of the null field waste have here subjected in the paint filter test and zened for chloride content and duit the samples lace there. Brown to content in the operative representation to hardness presentation is next in 12 to SMMAC. The results of the representative samples are attached to demonstrate the share-elsewibed waste conform to the requirements of Section 15 of : represent Transporter: To Be Determ OCD Permitted Sorface 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 Waste Acceptance Status: Method Status PRINT NAME: EJEVIC Higg w/2
 TTILE: Support Market Management Inciting Authorsted Agent
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arch 17, 2016 shlev Maxwell	Website coses hullen inconcently o				tory, Inc.		Dais Reported 3/17.	2010
		CLIENT: Su Project: Lit	ider, Miller and Associate dreth CS	15		Collect	emple (D: Lindreth Non Exempt tion Date: 3/4/2016 11:54:00 Ab	
Line Mennell		Lab ID: 16	/3077-001	Matrix:	AQUEOUS	Receiv	ved Date: 3/2/2016 7:00:00 AM	
snicy Maxwell		Analyses		Result	POL O	ual Units	DF Date Analyzed	Batch
ouder, Miller and Associates			Sum Z. J.				Trans.	
01 W. Broadway			D 8270C TCLP	6		- Sec		SPA DAM
rmington, NM 87401		2-Methylphen		180		B into A	 第86/2016 表示:設定 1 3/16/2016 4:57:42 P 	
EL: (505) 325-5667		3+4-Methylph Phenol	anol	ND		D mg/L D mg/L	1 3/16/2016 4:57:42 P 1 3/16/2016 4:57:42 P	
		2,4-Dinitrotol		ND		D mg/L	1 3/16/2016 4:57:42 P	
AX		Hexachioroby		ND		D mgt	1 3/16/2018 A 57:42 P	
		Hesechiorobs		ND		D ingl	1 3/16/2016 4:57/42 P	
E: Lindreth CS	OrderNo.: 1603077	Hexachioroet		ND		D mg/L	1 3/16/2016 4:57:42 P	
Contraction of the second s		Nitrobingeni		ND		D mol.	1 3/16/2016 4 57:42 P	
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ear Ashley Maxwell:		Pyridine		ND	5.0	D mg/L	1 3/16/2016 4:57:42 P	PM 24087
And the second	And the second	2,4,5-Tricfilo	oohenot	ND.	400	D mgit	1 3/16/2015 4:57:42 P	
all Environmental Analysis Laboratory received 1 san	nple(s) on 3/2/2016 for the	2.4.6-Tricmon	(onertage)	PAGE .	25	D mpl	1 5/16/2016 4:57:42 F	PM 24097
alyses presented in the following report.		Cresols, Tota	1	ND	200	D mg/L	1 3/16/2016 4:57:42 P	
		Sur. 2-Flu	anaphrenial	0		3D %Rec		
se were analyzed according to EPA procedures or e	quivalent. To access our accredited	Sur: Phen		0		SD %Rec		
please go to www.hallenvironmental.com or the st			Tribromophismil	.0		BD WRMC		
erly interpret your results it is imperative that you r			barueno-da	. 0		50 %.Ruc		
the sample checklist and/or the Chain of Custody for			exobiphenyt	0		SD Rec		
			phenyi d18	0	18.8-115	SQ NRec		
iple receipt temperature and preservation. Data qual		EPA METHO	D 8260B: VOLATILES				Anal	lysl: AG
wided if the sample analysis or analytical quality con		Benzene		1.3	0.20	mg/L	200 3/8/2016 9:38:32 PM	
hen necessary, data qualifers are provided on both the	sample analysis report and the	Toluene		2.1	0.20	mg/L	200 3/8/2016 II:38:32 PM	
C summary report, both sections should be reviewed.	All samples are reported, as	Emytheriaere	(ND	0.20	mgil	200 3/6/2016 9:38 82 PI	
ceived, unless otherwise indicated. Lab measurement	of analytes considered field		ityi etinin (MTBE)	ND	0.20	-Agm	200 3/8/2016 9:38:32 PM	
trameters that require analysis within 15 minutes of sa	impling such as pH and residual	1.2.4-Trimeit		ND	0.70	ma/L	200 3/8/2016 9:36:32 P	
lorine are qualified as being analyzed outside of the r		1, 3, 6, Transf		MD	0.20	night	200 3/8/2014i 9/36 3/2 PM	
forme are quarried as being analyzed outside of the r	continented norming time.	1,2-Cichiaros		ND	0.20	mol	200 3/8/2016 9:38:32 Pt	
and deale fractions to come the structure of	Configuration of the Continue	1,2-Dibromo	(hane (EDB)	ND	0.20	mg/L	200 3/8/2016 9:38:32 Pt	
ease don't hesitate to contact HEAL for any additiona	I information of clarifications	Nachthalene	and the second se	ND	0.40	mail	200 3/8/2016 9:38:32 Pt 200 3/8/2016 9:38:32 Pt	
		1-Molthylnock 2-Methylnoph		ND	0.80	mg/L	200 3/8/2016 8:36:32 PT	
DHS Cert #AZ0682 NMED-DWB Cert #NM9425	5 NMED-Micro Cert #NM0190	Acetone	The second second	ND	2.0	mg/L	200 3/8/2016 9:38:32 Pf	
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cerely,		Biomodicities		AD.	0.20	molt		
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and a second sec		Carbon divisi	idu.	ND	2.0	mg/L	200 3/8/2016 9:38:32 Pf	M R32659
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dy Freeman		Bafer	o the OC Summary report	t and sample to	ein checklist	tor flagged	QC data and proservation inform	ation.
iburatory Manager			2. A.A.					
		Qualifiers.	 Value exceeds Maximum 		d.		alyte detected in the associated Method R	dank.
001 Hawkins NE			D Sample Diluted Due to M		1.15		fue above quantitation range	
suguerque, NM 87109			H Holding times for prepara		created		alyte detected below quantitation limits mole oH Not In Range	Page 1 of 6
			ND Not Detected at the Repo			P Sam		
The second s			R RPD outside accepted re				porting Detection Limit	

Hall Environmental Analysi	s Labora	itory, Inc.	1	Analytical Report Lab Order 1603077 Date Reported: 3/17/20	16		
CLIENT: Souder, Miller and Annociation Project: Lindresh CS Lab ID: 1503077-001			Collection	ample ID: Lindreth Non Exempt tion Date: 3/1/2016 11:54:00 AM ved Date: 5/2/2016 7:00:00 AM			
Analyses	Result	PQI. Qua	d Units	DF Date Analyzed	Batch		
EPA METHOD 82008: VOLATILES				Anaiys	C AG		
Converteettoris	NO.	0.90	mgi	UNT CORPORE ON CONTRACTOR	1232555		
Chloroethese	ND.	0.40	mp/L	200 3/8/2016 9:38:32 PM	R32659		
Childroform	ND	0.20	mg/L	200 3/9/2016 9:38:32 PM	R32659		
Children Manuel	NO	0.60	mis/L	200 3/0/2016 9:38:32 PM	FI32668		
2-Childreninisian	ND	0.20	wig/L	200 3/8/2016 9:38:32 PM	R32609		
4-Chlorotoiuene	ND	0.20	mg/L	200 3/0/2016 9:38:32 PM	1032659		
cis-1,2-DCE	ND	0.20	mg/L	200 3/8/2016 9:38:32 PM	R32659		
sla-1,3-Dechloropopenet	ND	0.20	may/T	200 3/8/2016 9:38:32 PM	R32659		
1.2-Ditarimo-3-ohiloroproprime	ND	0.40	mart	200 3/8/2016 0:38:32 PM	12.55660		
Dibromocnip/nmet/name	ND	0.20	mari	200 3/0/2016 9:38:32 PM	R32659		
Dibromoinnethave	ND	0.20	mg/L	200 3/M/2016 9/38:32 PM	R32655		
1.2-Dichlorobergene	ND	0.20	ma/L	200 3/0/2016 9:38:32 PM	R32651		
1.3-Dichlorobinaterni	ND.	0.20	more	200 3/8/2016 9:38:32 PM	R32669		
1,4-Dichloropenzene	\$ND	9,20	MOG/L:	360 3653015 533337 PM	R32605		
Dichlorodifluoromethane	84D	\$.20	NgiL	200 20020181-52632 PbJ	R32659		
1,1-Dishloromhime	ND	0.20	mort	200 3/6/2016 9:38:32 PM	R32669		
1,1-Dichlancellienc	+40	0.20	mgL	200 3/8/2016 8.38-32 PM	R32689		
1.2-Dichlorocrepiane	ND	0.20	mat	200 3/M/2016 9/38:32 PM	R32668		
1,3-Dictronomoune	ND.	0.20	max	200 3/8/2016 9:38:32 PM	R32858		
2.3-Divisionerrorpania	MD.	0.40	mgd	200 3/6/2016 B/38/32 PM	R92655		
1;1-Disblordproperve	ND	0.20	mgiL	200 3/6/2016 9:38:32 PM	R32659		
Hexacolorobit =====	ND	0.20	mar.	200 3/8/2016 9:38:32 PM	R32650		
2-Haxanona	ND	0.20	mail	200 3/W2016 9:38:32 PM 200 3/6/2016 9:38:32 PM	R32650		
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- a starout work and	IF ND	0.20	mgiL	200 3/6/2016 9:38:32 PM 200 3/8/2016 9:38:32 PM	R32659		
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n Butylburgen	ND	0.40	Agen .	200 3/6/2016 9:38:32 PM 200 3/6/2016 0 38:32 PM	RIDIE		
n-Propy/Denzeni	ND	0.20	mgit	200 3/8/2016 9:38:32 PM	R32859		
ame-Bulykontente	NO.	0.20	man	200 3/8/2016 8:38:32 PM	RUMBA		
Storeme	NET	0.20	.mga.	200 5/6/2016 9/38/32 PM	Right		
inn-Butyloanzone	ND	0.20	mak	200 J/6/2016 0:38:32 PM	R32659		
1,1,1,2-Tetrachioroethane	ND	0.20	mgit	200 3/8/2016 9:38:32 PM	R02059		
1.1.2.2-Tetrachloroethane	ND	0.40	mal	200 3/8/2016 9:38:32 PM	R32659		
Tatract/orceching (PCE)	NO	0.20	mg/L	200 3/8/2016 9:38:32 PM	R32656		
Vans 1.2 DCE	NO	0.20	mat	200 3/8/2016 8:38:32 PM	R32650		
trans-1.3-Dicheroproses-	ND	0.20	mail.	200 3/8/2016 9:38:32 PM	R32655		
1.2.3-Trichtorobenzene	NO	0.20	mal	200 M8/2016 9 38/32 PM	R32050		
1.2.4-Trichkinsharmana	NO	0.00	Innal	200 3/8/2016 9:38:32 PM	R32050		

Qualifiers:

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Hall Environmental Analysis	Labora	tory, Inc.	6.4	Analytical Report Lab Order 1603077 Date Reported: 3/17/20	16	ENERGY	and the state	ABORATORY Prepared by		L REPO	RT	16.7175 + Human, MT 977,472.971 rt Date: 03/14/16
CLIENT: Souder, Miller and Annocinten Project: Lindreth CS Lafr ID: 1603077-001	Matrix	AQUEOUS	Collection I	e ID: Lindrein Non Exempt Date: 3/1/2016 11:54:00 AM Date: 3/2/2016 7:00:00 AM		Client: Project: Lab IO: Client Sample I	Not Indicated B16030406-001 ID: 1603077-001C Lindreth	Non Exempt			Collection DetsRev	n Date: 03/14/16 n Date: 03/01/16 11 (4 selved: 03/03/16 Matrix: Aqueous
Analyses	Result	PQL Qua	I Units	DF Date Analyzed	Batch	100					MCL/	11.555.54
EPA METHOU 82008: YOLATILES				Analys	AG	Analysee		Result Units	Qualifiers	RL	QCL Method	Analysis Date / By
1.1.1-Trictlocostrans	6iD	0.99	mgik	200 J/0/2016 9.38 32 PM	R32659	METALS, TOTA	AL					
1,1,2-Trichloroelium Inchloroelinene (162,1	HD ND	0.20	mg/L mg/L	200 3/8/2016 9:38:32 PM 200 3/6/2016 9:38:32 PM	R32659	Antenio		ND mg/L		0,1	SW60108	03/06/18 12:51 / Hh 03/06/16 12:51 / Hh
Trichloreliss/attet/www.	ND	0.20	mgn	200 3/6/2016 8:38:32 PM	R32659	Barlism		ND mg/L		0.5	2W6010B	03/08/16 12:51 / rth
1,7.3-Trichloropingove	ND	0.40	mal.	200 3/8/2016 9 38:32 PM	R32650	Cleomium		NO mg/L		0.1	EW6010B	0505/16 12:51 / r/h
Vinyi chioride	ND	0.20	mgit.	200 3/6/2016 9:38:32 PM	R32657 -	Lood		ND mga.		9.1	57/00108	05/08/16 12:51 / m
Xylenes, Total	0.88	0.30	mgL	200 3/8/2016 9:38:32 PM	R32659 R32659	Meroury		0,076 mg/L		0.002	SW7470A SWR0198-	03/08/16 16:29 / ser 03/05/16 12:01 / nh
Sum 1.24Xchlander ann-d4 Sum 4 Brambfluoroberoene	100	70-130	WRUC SHRUC	200 3/8/2016 9:38:32 PM 200 3/8/2016 0:38:32 PM	R32655	Sirver		ND MOL		0.07	SW0010B	05/08/16 12:51 / 19
Sun: Denomofluoronethane	104	70-130	%Rar:	200 3/6/2016 E-35-32 PM	R32659							
Sur: Toluene-dE	115	70-130	TLHIC:	200 IM6/2016 9/38-32 PM	RAZION							
Refer to the QC Summary report as				lots and preservation informate								
Qualifiers: * Value exceeds Maximum Co D Sample Diduted Due to Matr			E Value ab 1 Analyte d 0 Kample p	tetected in the associated Mathed Blan ove quantitation range Interted below quantitation limits p ith the fin Range g Detection Limit			RL - Analyte reporting limit. QCL - Quality control emit.				dosum contaminant lav dojecijeci of the reported	

hroject: Not in Anakyte Wathout: SWA Avenic SWA Avenic Content Silver Silver Silver Silver Caromium Lead Bahriman Charmém Lead Bahriman Silver Charmém Silver	W1010B 28 8A	Court Result 7 Initial Calibratic 0.912 0.912 0.7740 0.900 0.9744 0.000 0.784 8.900 0.7740 0.922 7 Interference C1 0.0133 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248 0.00248	Units most mgit mgit mgit mgit mgit mgit mgit mgi	0 10 0.10 0.010 0.050 0.050 0.050 0.010 0.00	SREC Lo 101 97 100 98 101 100 98 98	w Limit M 90. 90 90 90 90 90 90	Work ligh Limit Aok 110 110 110 110 110 110	rt Date: 03/14/16 Cirder: B16030408 RPD RPDLImit Qual Neal Rum ICP203.B_16030A .com//16 08:90 03/08/16 09:54
roject: Not in Vaskyte Method: SW8 belto: QCS Veetic Swamm Jaurmon Jau	Indicated Web108 28	Count Result 7 Indial Calebraty 8917 9774 9774 9770 9770 9392 7 Interference CT 8.0153 9.00264 9.0024 9.00	on Varification mark mark mark mark mark mark mark mark	n Elandard 0.10 0.10 0.000 0.000 0.000 0.10 0.0000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000000	101, 97 96 101 103 98	90- 80 90 90 90 90	Work ligh Limit Aok 110 110 110 110 110 110	k Order: B16030406 RPD RPDLImit Oual Areal Run ICP205.B 160306A C3000/16 09 90 0300916 09:54
Avaitytes Alethodt, SWA Alethodt, SWA Alethodt, SWA Veenic Savarmum Shornium And Savarmum Shornium Shornium Sharen Savarmum Sharen Savarnium Savar	W1010B 28 8A	7 Indial Califience 912 9774 9774 9784 9786 9786 9786 9786 9786 9786 9710 9786 9710 9786 9710 9786 9710 9786 9710 9710 9710 9710 9710 9710 9710 9710	on Varification mark mark mark mark mark mark mark mark	n Elandard 0.10 0.10 0.000 0.000 0.000 0.10 0.0000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000000	101, 97 96 101 103 98	90- 80 90 90 90 90	Anal 110 110 110 110 110 110	Neal Rum ICP203-8_160308A .03074/16 08 90 03/08/16 09:54
Atethodi: SWi 2010: QCS Veenic Senum Searnisen Chomium Silver Sil	54	0 917. 0.774 0.700 0.764 0.600 0.764 0.080 0.032 7 Interference CI 0.00248 0.00048 0.00048 7 000248 7 000248 0.00048 7 000248 0.000	molt mg/t mg/t mg/t mg/t mg/t mg/t mg/t mg/	0.10 0.10 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.010 0.050 0.010 0.050 0.010 0.050 0.010 0.050 0.010 0.050 0.010 0.010 0.010 0.010 0.010 0.010 0.0500000000	97 100 96 101 183 96 97	80 90 90 90 90	110 110 110 110 110 110	0308/16 69 50 0308/16 69:54
Ab ID: QCS search of the searc	54	0 917. 0.774 0.700 0.764 0.600 0.764 0.080 0.032 7 Interference CI 0.00248 0.00048 0.00048 7 000248 7 000248 0.00048 7 000248 0.000	molt mg/t mg/t mg/t mg/t mg/t mg/t mg/t mg/	0.10 0.10 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.010 0.050 0.010 0.050 0.010 0.050 0.010 0.050 0.010 0.050 0.010 0.010 0.010 0.010 0.010 0.010 0.0500000000	97 100 96 101 183 96 97	80 90 90 90 90	110 110 110 110 110 110	0308/16 69 50 0308/16 69:54
Veenic Sanaan Augusta Sanaan San	SA	0 917. 0.774 0.700 0.764 0.600 0.764 0.080 0.032 7 Interference CI 0.00248 0.00048 0.00048 7 000248 7 000248 0.00048 7 000248 0.000	molt mg/t mg/t mg/t mg/t mg/t mg/t mg/t mg/	0.10 0.10 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.010 0.050 0.010 0.050 0.010 0.050 0.010 0.050 0.010 0.050 0.010 0.010 0.010 0.010 0.010 0.010 0.0500000000	97 100 96 101 183 96 97	80 90 90 90 90	110 110 110 110 110 110	0308/16 09:54
Sector Sectors		0.774 0.400 0.764 0.767 0.592 7 Interference C1 0.0126 0.00048 0.00048 0.00048 0.00048 0.00048 0.00048 0.00048 7.0005-00 7. Interference C2 0.065-00 7. Interference C2	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.10 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.000000	97 100 96 101 183 96 97	80 90 90 90 90	110 110 110 110 110 110	
Destruction (and Solver and Solver and Solver and Solver and Descent and Desce		0.400 0.764 1986 0.797 0.392 7 Interference CI 0.0153 0.00546 0.000546 0.000546 7 00540 7 00540 7 internence CI 0.065 0.0054 0.0055 0.0054 0.00550 0.00550 0.00550 0.00550 0.005500000000	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.010 0.050 0.050 0.010 0.10 0.10 0.10 0	100 96 101 165 98	90 90 90 90 90	110 110 110 110 110	
Chronnium (and) Solver an in the local of the loca		0.764 19.605 0.797 0.392 7 Interference 0.153 0.0153 0.00248 0.000480 0.000480 0.000480 7.025-02 7.025-02 7.025-02 7.025-02 0.965 0.0467	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.050 0.090 0.16 0.010 0.10 0.010 0.010 0.000 0.000 0.10 0.010 0.10	95 101 183 98 98	90 90	110 110 110	
jard Silver Silver Lab ID: ICSJ Anarric Danson Cadmium Cadmium Silver Lead Banhum Silver Chromidim Sakensum Chromidim Silver Silver Sakensum Chromidim Banhum Chromidim Banhum Chromidim Banhum Chromidim Banhum Chromidim		9 600 6.797 0.392 7 Interferance CI 0.0135 -0.00268 0.000480 -0.00248 0.000480 -0.00249 7.002-09 7.002-09 7.002-09 5.002-01 0.965 .0.467	mgit mgit mgit mgit mgit mgit mgit mgit	0.090 8.10 0.010 A B.10 0.000 0.000 0.000 0.000 0.000 0.000 0.10 5.010	101 165 98 97	90 90	110	
bevenans Silver C. ICSA Anarric Searcan - Control - Searcan - Silver - Silv		0.257 0.392 7 Interference CI 0.0153 0.00506 0.00048 0.000480 1.00268 0.000480 1.00268 7.00506 7.00507 7.00507 0.0965 0.467	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	6.16 0.010 A B.10 0.010 0.000 0.050 0.050 0.010 5.010 AB 0.10	98	90	110	
ab ID: CSJ Amarico Exelución Colomitum Chomitum Esel Balentum Silver Cadmium Chomitum Eselución Salver Method: SW Selver Method: SW Selver		7 Interference C/ 0.0133 - 002.04 0.00248 0.000480 - 0.0248 - 0.0048 - 0.0048	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	A 0.10 0.010 0.020 0.020 0.10 0.10 0.10 0.10 0.10	97			
America Bancine Chromelum Lead Baherium Siher Bancin Bancin Chromelum Lead Searetum Silver Method: SW Searetum Salver Method: SW Salver Method: SW		0.0133 • 00E-05 • 00E248 0.00048 0.00048 0.00048 7 00E-07 7 interference CI 0.965 0.467	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2.10 n ic 0.010 1.060 0.10 5.010 0.10		80		
Anamic Gaussin - Chromeium Lead Bailemium Silver Bailemium Cadmium Cadmium Silver Silver Wethod: SW Ab (ID MB- Ansenic Barlum Cadmium Cadmium Cadmium		0.0133 • 00E-05 • 00E248 0.00048 0.00048 0.00048 7 00E-07 7 interference CI 0.965 0.467	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2.10 n ic 0.010 1.060 0.10 5.010 0.10		80		0300410 09:57
Basum - Cadinium - Cadinium - Chromium - Eadi - Balenium - Cadinium - Chromium - Bashum - Seaenium - Seaenium - Seaenium - Cadinium - Cadinium - Cadinium - Cadinium -	SAB	- 006-05 - 0.0248 - 0.000480 - 8.0221 - 0.0136 - 7.005-05 - 7. Interference CA - 0.985 - 0.467	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0 010 0.050 0.10 0.10 0.10 0.10 0.10		80		02/06/16 09:57
Cadimium Chroméim Lead Balenium Silver Lab ID: ICSJ Assenic Barkum Chromium Lead Saleanium Silver Wethod: SW Jab (D) MB- Assenic Barium Cadimum Cadmum	SAB	0.000480 8.6221 9.0136 7.005-05 7. Internetence CF 0.965 0.467	mg/L mg/L mg/L mg/L mg/L mg/L	1.060 0.050 0.10 3.010 AB 0.10		80	-	03/06/16 09.67
Lead Balenium Silver Lab ID: ICSJ Arsenic Bajum Cadmum Chromium Lead Selenium Silver Wethod: SW Lab ID MB- Arsenic Barlum Cabrenium Chromium Ch	SAB	0.0221 0.0136 7.005-05 7. Interference CF 0.965 0.467	mg/L mg/L mg/L mg/L mg/L mg/L	0.050 0.10 0.010 AB 0.10		60	-	03/06/16 09:57
Bakemium Silver Larib BC: ICSA Arsenic Bashum Cadmium Chromium Lead Setemum Silver Method: SW Lab ID MB- Arsenic Barlum Cadmium Cadmium	SAB	0.0136 7 00E-05 7 Interference CF 0.965 0.467	nigit. mg/L mg/L neck Sample mg/L mg/L	0.10 9.010 AB 0.10		60		03/00/16 09:07
Silver Lab ID: ICSJ Arsenic Barkum Cadmium Chromium Lead Setenikum Silver Wethod: SW Lab ID: MB- Arsenic Barlium Cadmium Cadmium	SAB	7 005-05 7 Interference Cr 0.965 0.467	mg/L neck Sample mg/L mg/L	0.10 0.10		60		03/00/10 09:07
Lab ID: 1CSJ Arsenic Barlum Cadmium Chromium Lead Setenkum Silver Method: SW Lab ID MB- Arsenic Barlum Cadmium Cadmium	SAB	7 interference C2 0.965 0.467	mg/L	AB 0.10		60		03/06/16 09:57
Arsenic Barlum Cadmum Chromium Lead Secolum Silver Method: SW Lab ID: MB- Arsenic Barlum Chromium	SAB	0.965	mg/L.	0.10		60		03/06/10 09:07
Barlum Cadmium Chromium Lead Setenkum Silver Method: SW Lab ID: MB- Arsenito Barlum Cadmum Chromium		0.965	mg/L.	0.10		60	100	
Cadmum Chromium Lead Setenikum Silver Method: SW Jab ID MB- Arsenic Barium Chromium				0.10			120	
Chromium Lead Selectum Silver Method: SW Jab ID MB- Arsenic Barium Cadmum Chromium		0.662			95	60	120	
Lead Selonium Silver Method: SW Lab ID: MB- Arsenic Barium Cadmium Chromium			mg/L	0.010	68	68	120	
Selectum Silver Method: SW Lab ID: MB- Arsonic Barium Cadmium Chronium		0.438	mg/L	0.050	88	80	120	
Silver Method: SW Leb ID: MB- Arsonic Barium Cadmium Chronium		0.028	mp/L	0.050	83	80	120	
Method: SW Lab ID MB- Ansenic Barium Cadmum Chremium		0.052	mg/L	0.10	46	80	120	
uab ID: MB- Arsenic Barium Cadmium Chevelum		0,953	mg/L	0.010	95	60	120	
Arsenic Barium Cadimum Chreenium	W6010B					_		Batch: 97382
Barium Cadmium Chromium	B-97181	3 Method Blank			R	In ICP203-	A800001_B	03/08/18 12:37
Cadmium Chromium		NU	mg/L	0.02			2	
Chevenium		0.0003	mg/L	0.0002				
		NO	mgt	9,0004				
		ND	imp/L	0.003				
Loni		0,02	mg4.	0.02				
SAIMNINT		ND	mo/L	0.02				
Silver		NO	mg/L	0.003				
Lab ID: LCS	05-07382	7 Laboratory Co	ntrol Gample		я	INT ICP203	45_100308A	03/08/18 12:40
Arsenic		0.448	mgA.	010	90	90	120	
Barium		4.88	mg/L	0.10	89	80	120	
Cadmium		0.232	mg/L	0.010	93	80	120	
Chronium		0.440	mgit	0.050	88	20	120	
Lood		0.470	mpl.	6 060	-01	æ1	150	
Selemium		0.461	mgit	0.10	92	60	120	
Silver		0,222	mpA	0,010	89	80	120	

			Q		Summary						
	Hall Environmental			Preparet	r cy canaga, a	IT DIanci				03/14/16 B150304	
	Not Indicated	Cour	t Rosuit	Units		ware	and I look	High Limit		RPDLimit	
Anniyte		Con	a monut	Unital	, AL	WHEE I	Line Lines	ruga caunt	14.15		1ch: 9738
Method:	SW\$010B							0-8 160308A			916 13:0
Animatic:	B16030485-0038DR	- 7	Serial Dilution	form	17		O.	0		10	210 13:0
Racium			0.0549	mort	0.050		.0	0		10	Ĥ.
Cadmium			NO NO	mg/L	0.041		0	0		10	12
Chromium			ND	mort	0.27		0	0		10	
Lead			ND	mg/L	1.6		0	0		10	
Gelenium			ND	mg/L	2.0		0	0		10	
Silver			ND	mg/L	0.30		0	0		10	
ab 10:	B16030465-003EPD	. 7	Posi Digestice	Distance	Sala		Bur Inpx	13-8_1600CEA		(TMO)	5/18 13.
Arsenic	D TO DO		20.8	mg/L.	0.35	100	75	125		areas	
Bárium.			- 18.7		0.050	68	75	125			
Cadhiasis			9.58	C San	0.0085	93	75	125			
Chromium			19.4	mg/L	0.065	.04	75	125-			
Liked			19.4	ing/l	0.33	94	15	125			
Selenium			19.9	mail	0.41	.97	75	120			
Saver			19.7 <i>4</i>	mg/L	0.081	85	75	125			
and king	B18030465-003845	19	Sample Matri	Solo			Nav KOP2	A690001_8-00		02/06	0110.13
Arsenic	Cond. Inc. Hannel		0.703	mp/L	0.34	141	75	125			5
Barium			5.62	mail	0.050	100	75	125			
Cadmium			0.252	mg/L	C800.0	101	75	125			
Chromium			0.455	mg/L	0.053	91	75	125			
Lead			0.676	mgil.	0.32	715	75	128			1.00
Selenism			0.298	mg/L	0.20	- 65	75	125			â
Silver			0,320	mg1.	0,080	128	78	125			s
ab ID:	B10030465-0039MS	0 7	Barrole Matri	Spike Dec	Nicale		Run ICP2	03-8_160306A		00/00	8/16 13
A/senic			0.000	mort	0.34	165	75	125	17	20	\$
Barium			5.61	mg/L	0.050	9.8	75	125	2.1		
Cadminist			0.235	mg/L	0.0083	94	75	125	85		
Chrisman			0.474	mgn.	0.00.5	99	-75	125	-3.9	20	17
Lines			D EDVI	ma/L	0.32	136	75	125	17	20	1
Selenium			0.328	mgA.	0.20	00	75	125	9.0		- 1
Silver			0.282	mgn	0.000	115	75	125	12	20	

Qualifiers: RL - Analytic redocting limit. N - The weakly concentration was not sufficiently high to calculate a RPD for the sectial distance test.

ND - Not detected at the reporting imit. S. Spike nicovery outside of advisory limm.

ENERGY III Tractor Physic Tractor Data Strategy 25 and 25

QA/QC Summary Report

				Prepared	by Billings, M	T Brand	th				
Client: Project:	Hat Environmental Not Indicated									03/14/18 B160304	
Analyte		Count	Result	Livits	RL.	-	Low Limit	High Limit	RPD	RPDLimit	Qual
Mathou:	EW7470A					-		Analytica	(Run	HGCV202-8	1603084
Lab ID:	ICV	1.00	itial Calibrati	on Venifical	bis Standard					03/06	16 15:60
Marrison			0.00209	mgil	0.00010	168	80	i in			
Mathod:	SW7470A								_	Ba	tch: 97453
Lab ID:	MB-97487	M	ethod Blank				Run: HGCI	202-8_160306A		03/05	10 15 55
Mercury			ND	mg/L	4E-06						
Lab ID:	LCS-97487		Abolatory Co	ittol Gampa			Ran: HGC	202-8_160308A		03/05	16 15 67
Mercury			0.00205	mp/L	0.00010	102	-80	120			
Lab ID:	016030101 005CDIL		oriar Dirution				Run: HOO	202 B_180308A		03/06	16 16.03
Mercury			0.000138	mg/L	0.00025		0	0		10	
Lab ID:	B16030191-005CMS	ŝ	ample Matrix	Solke			Rate HGC	202-E 160300A		DAND	16 16 05
Mercury			0.00154	mg/L	0.00010	70	75	125			S
Lab ID:	B16030191-005CMS	0 9	ample Matro	Solve Duri	CM6		Ran: HOC	202-8 100308A		03/05	He 10:07
Moroury			0.00152	mg/L	0.00010		75	125	-1.2	20	s

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

licnt:	Souder,	Miller	and	A880

Sample ID 100ng las	Sampi	Type. LC	5	Tes	tCode: E	PA Method	82608: VOL	ATILES	_	
Client ID: LCSW	Batch	h ID: R3	2659		RunNo: 3	2659				
Prep Date:	Analysis D				BegNo: 9		Units: µg/L			
Analyte	Résult	POL		SPK Ref Val	WREC	LowLinit	HoliLinii	NRPD	RPOLIMI	Quel
Benzene	21	1.0	20.00	0	103	70	130	100.0	The section	Satisfie
Toluene	21	1.0	20.00	0	105	70	130			
Chlorobenzene	22	1.0	20.00	0	108	70	130			
1.1-Dichloroethene	23	1.0	20.00	0	115	70	130			
Irichloroethene (TCE)	20	1.0	20.00	0	100	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		97.0	70	130			
Sur 4-Rromoficenbenzene	10		10.00		104	70	130			
Sort Disconducementane	11		10.00		114	79	130			
Sun: Toluene-d8	9.8		10.00		98.0	70	130			
Semple ID vab dell	-Samu'i	Vor MI	BLK	Tes	Code E	PA Meillod	82648. VOL	ATILES		
Client ID: PBW	dulc	11D RD	2859		iunNo 3	2659				
Pran Date:	Arisiyaan	Sele 1	B/DD1E	3	and a	e ante	Linit: pg/l			
Analyse	Result	POL	SPK value	SPK Ret Val	INREC	LowLimit	HanLint	16RPD	RPDLimit	Que
lenzene	ND	1.0			-					
loluene	ND	1.0								
thylbenzene	ND	1.0								
fethyl tert-butyl ether (MTBE)	ND	1.0								
2,4-Trimethylbenzene	ND	1.0								
3,5-Trimethylbenzene	ND	1.0								
2-Dictricrosoftware (ECC)	ND	10								
2-Dibronoelitane (E-08)	ND	1.0								
aphthalene	ND	2.0								
Methylnaphthalene	ND	4.0								
-Methylnaphthalene cetone	ND	4.0								
	ND	10								
romobenzene	ND	1.0								
romodichioromethane	ND ISET	1.0	-	1						
ta cometateo	ND ND	1,3		4						
Butanone	ND	10								
-butanone arbon disultide	ND	10								
arbon Tetrachioride	ND	1.0								
hiorobenzene	ND	1.0								
hioroethane	ND	2.0								
chloroform	ND	1.0								
horomethane	ND	3.0								
-Chlorotoluane	ND	1.0								
	ND	1.0								
Qualifiers:										
* Value exceeds Maximum	n Contaminant	Level.		B Analyte	detected i	n the associa	ted Method Bla	nk		
D Sample Diluted Due to M	fatrix			E Value a	bove quan	titation range	1.1.1.1.1.1.1			
ff Holding times for prepar	stine is analysi	is incomis	d	1 Analyse	disected ?	edaw quanto	patient investory		Page 4	of 6
ND Not Desceted at the Repo				P Sample	pH Not ha	Range			1.00	
R RPD outside accepted re	covery limits				ng Detecti					
S % Recovery outside of n	ance due to dilu	tice or m	atrix	W. Steeple	rentain/r	innontakent	in our of linkir as	enerified		

WOR. 1603077

17-Mar-16

Qualifiers: RL - Analylis reporting, Iami, S - Spike recovery outside of advisory limits.

Iall Enviro	onmental	Anal	ysis I	aborat	öry,	Inc.	1					IT-Mar-16
lient:	Souder, Mill Lindreth CS		Associa	tco								
roject:			_		_	_						_
iample ID vib d	oli -		Type: ME						1269B: YO	LATILES		
anni IDi PBW			HID: RS				tunNo 3					
rep Date:	A	nalysis C	Date: 3/	8/2016		S	legNo: 9	99268	Units: µg/	L		C. 11
Italyie	-	Ren.il	POL	SPK value	SPK	Ref Val.	MREC	LinkLimit	HighLimit	MRPD	RFDLinii	Que
-1,2-DCE		ND	1.0 1.0									
-1,3-Dichloropropeni		ND	1.0									
-1,3-chenoropropen 2-Dibromo-5-chioropr		ND	2.0									
romochloromethane		ND	1.0									
Critical Critical and		ND	1.0									
Olitikonbenzena		ND	1.0									
Diciluctioname		ND	1.0									
Oklikitberzein		ND	1.0									
Norocificorometra/	é-	ND	1.0									
Dichloroethane	10 A	ND	1.0									
Dichlorovellneme		ND	1.0									
Dichloropropane		ND	1.0									
ichloropropane		ND	1.0									
Dichloropropane		ND	2.0									
ichloropropene		ND	1.0									
chlorobutadiene		ND	1.0									
stanone		ND	10									
ropylbenzene		ND	1.0									
propyticiuene		ND	1.0									
thyl-2-pentanone		ND	10									
hylene Chloride		ND	3.0									
tylbenzene		ND	3.0									
ropylbenzene		ND	1.0									
Butylbenzene		ND	1.0									
ane		ND	1.0									
Butylbenzene		ND	1.0									
1,2-1 etrachioroetha	ne	ND	1.0									
2.2-Tetrachloroetha	ne	ND	2.0									
rachloroethene (PC	E)	ND	1.0									
a-1,2-DCE		ND	1.0									
s-1,3-Dichloroprope	ini	ND	1.0									
8-Trichlorobenzene		ND	1.0									
Trichloroberzane		ND	1.0									
1-Trichloroethane		ND	1.0									
2-Trichlorosthane		ND	1.0									
histoenens (TCE)		ND.	1.0									
hlorofluoromethane		ND	1.0									
Trahioropropane		ND	2.0									
alifiers:						1.00	1.1					
Value exceed	s Maximum Cont	aminant	Level.		ы	Analyte	detected i	n the associa	ated Method B	slank		
D Sample Dilut	ed Due to Matrix				Е	Value al	bove quan	titation rang	NP			
I Holding times	be preparation a	ranalyse	is causelo	à.	1				tain limit.		Page 5	016
D Not Descoud	at the Reporting I	Linet			r	Sample	pHI Not h	Range				
	accepted recovery				RL	Reportin	ng Detecti	on Limit				
S % Recovery o	sutside of range d	ue to dilu	tion or m	atrix	W	Sample	container	temperature	is out of limit	as specified		

NO - Noi delected at the reporting limit.

QC SUMMARY REPORT WXXX 1003077 Hall Environmental Analysis Laboratory, Inc. 17-Mar-16 Client: Souder, Miller and Associates Project: Lindrath CS

Client ID: #BW		yyan Ant			KGUNE EN		szeen: VOL	ATILES		
Prep Date:	Analysis D	the 3	8/2016	\$	ingNo 9	99268	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-OxHibirpelTiane-d4	10		10,00		103	70	130			
Surr: 4-Bromoliuorobenzene	11		10.00		108	70	130			
Sur: Dibromofluoromethane	11		10.00		112	70	130			
Surr: Toluene-d8	11		10.00		110	70	130			

 Qualifiers:
 *
 Value reveals Maximum Continuent Level

 D
 Sample Ditatal Data is Marity

 II
 Holding tastes for preparations or analysis executed

 No. Decodes as the Asporting Lumi
 N. RPD within genergin Lowery lumities

 S. RPD within genergin Lowery lumities
 S. % Recovery outside of range due to distain or matrix.

B. Analyse detected in the associated Method Hami E. Value adverse quantitations trange Analyse detected backs quantitation limits wamps and root in Kange Reproving Emotional Limit. W. Sample container temperature is out of limit as specified

Page 6 of 6

Chen: Name. SMA-FARM	Work Order Namper	1603077		Reptive:	1
Records by date AT	03 02 84				
Loggne By Lindsay Mangin-	5/2/2015 / 00/00 AM		Jungo .		
Borgmand By Londany Mangin	3/2/2016 7:00:01 AM		Julyilly		
Reviewand By	ostactic		10.00		
Chain of Custody	0.90-110				
1 Costably seam in lacit on sample bottes."	. ·	115	140	Nas Presarti w.	
2. Is Chain of Currently competen?		Yes M	Ma .	Max Transets	
3. How was the sample delivered?		Courier			
Log In				ted.	
4. Wax as attangs made to cool the same	Shade	Vas W	NAG	Ten	
5. Were all samples received at a tempor	ature of >0" C to 5.0"C	Yes 🖌	No	NA	
6. Sample(s) in proper container(s)?		Yes 🖌	No		
7 Sofficient sample volume for indicated I	welley?	Ves V	No		
8 Are samples (except VOA and ONG) pr	roperly preserved?	Yes M	No		
9 Was preservative acced to boltes?		Yes	m ¥	NA	
10 VOA vals have zoro hoazeraco?		THE N	Hac III	Na: WOA Wate	
11. Were any isotigle containers received	broken?	TES	No M	# at preserved. pottles checked	
12 Dave paperview match Lottle survis?		Yor a	141	for pH.	117 unless victor
(Nute discorpancies on chain of custod		Vm V	No	Advantant?	1.1.2 (1.24)
13 Are matrice's conscilly identified on Chil 14, to 8 cloor what analysest were sequelite		You V	Nes		
15. Were all boding times able to be mel? (If its, itality customer for authorization		Yes et	946	Checked by:	
Special Handling (If applicable)					
16. Was client tolified of all discorpancies	with this wedge?	Yere	40	145. 9	
Person Notified:	Date				
By Whom	Via	eMail	Phone Fax	In Person	
Ringe ding					
Client Instructions					
17. Addsona (miana)					

2017 State of New Mexico Distort 1 1625 N. French Dr., Hulton, NM 18540 Form C-138 Energy Minerals and Natural Reson Oll Conservation Division Commen B 1301 W. Grand Avanue, Aronos, NM #1210 Ekanner HI 1000 Rio Brenze Roiel, Autor: NM \$7410 al Resources Oll Conservation Division 1220 South St. Francis Dr. Sunta Fe. NM 87505 Waste Management Facility Oppration (energies shall maintain and make this stick available for Divising imagement Danaet IV 1210 S. Sa. Prancia Dr., Sonia Fe, NM #7305 Santa Fe, NM 87505 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: Pump Canyon Compressor Station Location of Material (Street Address, City, State or ULSTR): UL K Section 24 Township 30 North Range 9 West; 36.795082, -107.733534 Source and Description of Waster
 Source: Water/Oil from the Non Exempt WasteWater Tanks and from the compressor skild drams:
 Description: Non Exemptions Water from the compressor skild.
 Estimated Volume 100 ydf (hold) Known Volume too be entered by the operator at the ord of the taut) <u>70</u> y(hold) GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS there by representative or authorized agant for Enterprise Products Operating do bereby I, Thomas Long 1, Thomas Long? - representative to monitorise square in the second state of the se BCRA Exempt: Oil field wastes generated from oil and gas apploration and production operations and are n
 escupi wasic
 Deerane Use Only: Waste Acceptance Frequency Monthly Weekler Per Load RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum anotheris for waste hazardous by sharacterization established in RCRA regulations, 40 CPR, 261 24, 261 34, or listed hazardous waste as defined in 40 CPR, part 261, which is non-hazardous that does not exceed the minimum anotheris for 40 CPR, part 261, another 17, an amendal. This following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate lense) us by 🗆 MSDS Information 🛛 RCRA Hazardous Waste Analysis 🔯 Process Knowledge 📄 Other (Provide description in Box 4) GENERATOR 19.15.26.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS 1. Thomas Long , representative for Enterprise Products Operating authorize to complete Generator Signatore the required testing/sign the Generator Waste Testing Certification. Provide the samples of the oil field-maste have been subported to the pair filter test and tested for shared content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 1915.36 MMAC. The results of the requirements of section 15 of 1915.36 MMAC. The results of the requirements of section 15 of 1915.36 MMAC. The results of the requirements of section 15 of 0.000 mm to the requirement of section 15 of 0.000 mm to the requirement of section 15 of 0.000 mm to the requirement of section 15 of 0.000 mm to the requirement of section 15 of 0.000 mm to the requirement of section 15 of 0.000 mm to the requirement of section 15 of 0.000 mm to the requirement of section 15 of 0.0000 mm to the requirement of section 15 of 0.0000 mm to the requirement of section 15 of 0.0000 mm to the requirement of section 15 of 0.0000 mm to the requirement of section 15 of 0.0000 mm to the requirement of section 15 of 0.0000 mm to the requirement of section 15 of 0.00000 mm to the requirement of section 15 of 0.00 OCD Permitted Surface Waste Management Facility Nume and Paolity Permit #. "Agus Moss, LLC - Permit #: NM-01-009 Address of Facility: SW/4 NW/4 Sociation 2, Towardhip 298, Range Crunch Mers, NM Mathad of Treasment and/or Depend: Exaporation [2010] Treating Plant Landfarm Landfall Other Watte Acceptance Mature: APPROVED DEFINIT DATE LAND PRINT NAME SAPPROVED DEVICE (Must be Maintained As Permanent Record)
PRINT NAME SIGNATURE SIGNATURE SIGNATURE SIGNATURE AND THE PROVE NO.

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hidenhomment.com (20) Howken ME : Abacamera, ME : A	DA) 461 10025 PCB19 401 1005 PCB19 14 TC LP 1427 PCB11451 504 11	bortiaM) B(T3 0.0158) e'HAR walk 0 ARDH A.D.3) priorité	×	Eleo Full Listitup Compands
4801 Mina	(Vino and) I (97 + 3 (ORM / ORG / ORG)	атех + мта		Remetrics:
HERPORT REAL Dependencies Real La jurbur et La 25 Project a	Project Unmainer: Torry Lang / Ash Ley MArzue (183) Sambler Russey U. M. 1504	Preservative HEAL No.	Uncires Janimes - 001	Alack Mar 100
Project Name				1 million
(hain-of-Custody Record () シットカー 「いっ」からいと、「Anamateri かっ」、「Anamateria たっ」、「Anamateria たっ」、「Anamateria たっ」、「Anamateria たっ」、「Anamateria たっ」、「Anamateria たっ」、「Anamateria でっていたいたいたいたいたいたいたい ののののでので、 ののののでので、 ののののでので、 ののののでので、 ののののでので、 ののののでので、 ののののでので、 ののののでので、 ののののでので、 ののののでので、 のののののので、 ののののので、 ののののので、 のののので、 のののので、 のののので、 のののので、 のののので、 ののののので、 のののので、 のののののので、 のののので、 のののので、 ののののので、 ののののののので、 ののののののので、 のののののののので、 ののののののののので、 ののののののののので、 ののののので、 のののののののののの	Ash Ite . et actual I () So the Eu . un iller , four C Level 4 (FUI Valdation) C Otron	Sample F	1 Linkred L Recent	LE all
Chain-of-Cust Grant Swy A- Maing Address data	Ash Ish	s) s Mishrix	*74) (S:11) 91-1-3	a a -
Chair Share	DAVIC Portage DAVIC Portage D Standmo Acceptization D NELAP	Date Time	11:5	P.146 1737



Hall Environmenial Analysis Labora 41401 Hawkins No Allen Albuquerger, VM 87100 TEL 100 485 2975 F.AX: 303-545 4/07 also ware he

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

RE: Pump Canyon CS

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/16/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited itsta ploase 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 See the sample checknis una or new nam or Custony for mormation 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 necessed, unless otherwise indicated. Lab measurement of malytes 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 Cent #AZ0682 - NMED-DWB Cent #NM9425 - NMED-Micro Cent #NM0190

Sincerely,

and

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109 OrderNo.: 1603839

Hall Environmental An	tory, Inc.	Analytical Report Lab Order 1803839 Date Reported: 3/25/2018						
CLIENT: Souder, Miller and Ana Project: Pump Canyon C3 Lab 1D: 1603839-061		AQUEOUS	Cul	Dute: 3/1	D: Pump Canyon Non Exempt http:///2016/1111.00 PM http://2016/7145.00 AM			
Analyses	Result	PQL Ound	Un	lis	DF	Date Analyzed	Batch -	
EPA METHOD 5270C TCLP			-	-		Anniyst	DAM	
2-Mathyphanal	NO	2700	-104			3/17/2010 7:42:15 PM	245/32	
Sr4-Methylphone/	ND	200	m			3/17/2018 7:42:15 PM	24302	
Phenol	NO	200		al.	1	3/17/2016 7:42:15 PM	24307	
2.4-Dimbrotolamme	ND	0.13		añ.	1	S/17/2016 7:42:15 PM	24302	
Hexachlorobestzerin	ND	0.13	100		4	3/17/2016 7:42:15 PM	24302	
Hexachiovate Codiento	NO	0.50	mg		1.	3/17/2016 7:42:15 PM	24302	
	ND	3.0	mg		1	3/17/2016 7:42:15 PM	24302	
Neropenzenn	NU	2.0		pl.	1	3/17/2016 7:42:15 PM	24302	
Pantachiarophanul	ND	100	ing			3/17/2016 7:42:15 PM	24303	
Pyridine	ND	5.0	mo		1	3/17/2016 7:42:15 PM	24302	
2.4.5-Trichtsmohenol	ND.	400	ma		4	3/17/2016 7:42:15 PM	24302	
2.4.6-Tritthlangitiend	ND	30			÷.	3/17/2016 7 42-15 PM	24302	
Cresols, Total	ND	200	me		1	3/17/2016 7:42:15 PM	24352	
Surr: 2-Fluorophenol	48.5	15-124		Nec	1.1	3/17/2016 7:42:15 PM	24302	
Surr: Phenol-d5	37.5	15-118		Rec	1	3/17/2016 7:42:15 PM	24302	
Sur: 2.4.6-Tribromoolienol	55.5	15-14E		Raic	1	3/17/2016 7:42:15 PM	24302	
Surr. Nitrobergene-d5	36.4	40:5-124		Rec.	Ť.	3/17/2016 7:42:15 PM	24502	
Surr: 2-Fluorobiphenyl	81.6	35.7-128		Rec	1	3/17/2016 7:42:15 PM	24302	
Sur: 4-Terphenyl-d14	54.T	18.8-115		Rac	1	1/17/2016 7:42-15 PM	24302	
The second	and a	Takar (tak		and the second				
EPA METHOD 7470: MERCURY						Analyst		
Maccury	400	0.00030	100	n,	4	3/18/2018 11:02:50 AM	24317	
EPA 6010B: TOTAL RECOVERA	BLE METALS					Analyst	MED	
Areavic	NET	0.20	100	a/L	4	3/21/2016 9:08:53 AM	24322	
Barium	ND	0.20	105	g/L	1	3/21/2016 9.08.53 AM	24322	
Cadmium	0.043	0.020	mg	p/L	1	3/21/2016 9:08:53 AM	24322	
Childhight	0.067	0.060	m	a/L		3/21/2016 9:08:53 AM	24322	
Load	0.089	0.050	ing	p/L	- 1	3/21/2016 9:08:53 AM	24322	
Selenium	ND	0.50	mg	p/L	1	3/21/2016 9:08:53 AM	24322	
Silver	ND	0.050	- 000	J.	1	WP1/2016 9:08:53 AM	24322	
EPA METHOD 8260B: VOLATIL	ES					Anatyst	OJF	
Ben/ere	ND	0.20	nic	10	200	3/23/2016 818 35 PM	PE33024	
Tolume	ND	0.20		20_		3/23/2016 JLOR:35 PM	R33024	
Ethniberizene	ND	0.26	m		200	3/23/2016 8:06:35 PM	R33024	
Methyl tert-butyl ether (MTBE)	ND	0.20	m		200	3/23/2016 8:08:35 PM	R33024	
1.2.4-Trimemytemane	ND	0.20	m			3/23/2015 8 0# 35 PM	R33024	
1.9.5-TrimatinyBranatina	PHE	0.20		94.		3/23/2016 8:08:36 PM.	R32024	
1.2-Dichlorgathane (EDC)	ND	0.20	m			3(23/2016 8:08:35 PM	R33024	
1.2-Ditromosthane (EDB)	ND	0.20	m			3/23/2016 8:08:35 PM	R31024	
Refer to the QC Summary 1		1000						
			-				_	
	imum Contaminant Level		BE			he associated Method Blank		
		- int			ove quantita			
	addression (n. 100 (hor) age	culoi		J Analyte detected below quantitation limits [Page 1 of] P Sample pH Not in Ranger				
					d Flue hs Ra			
R RPD outside accept S % Recovery outside			RL	reporting	g resection	Land	pecified	

CLIENT: Souder, Miller and Associates Project: Pump Canyon CS Lab ID: 1603839-001			Matrix: .	Cilent Sample ID: Pump Canyon Non Exempt Collection Date: 3/15/2016 1/11/00 PM Received Date: 3/15/2016 7:45:00 AM				
Analyses			Result	PQL Qual	U U	nits	DF Date Analyzed	Batch
EPA METH	OD as	TOLATILES					Anatys	OJF
Naphtralo	10		MOX.	0.40	17	nañ.	300 3/23/2016 E-08:35 PM	R9302
1-Methyma	phihak	900	ND	0.85	10	at.	200 3/23/2016 8:08:35 PM	R3302
2-Melhyina	gerriteal		NO	0.80		DL.	200 3/23/2016 6 08 35 PM	Raadii
Acutone			4.8	3.0	17	Jon.	200 3/23/2016 \$:00:38 PM	R3002
Bromobeczelee		NO.	0.20	10	at.	200 3/23/2010 0.00:35 PM	R3383	
Bromodictioromeinane		NO	0.20		gi.	200 3/23/2016 5:08:35 FM	R3303	
Bromoform		ND	0.20		J.C.	200 3/23/2016 8:08:35 PM	R3302	
Bromorman	tale ini i		ND	0.05		iat.	205 3/23/2016 8.08:15 PM	R3302
8-Bulanner			NIX	20.		at.	200 X/23/2016 8-08-85 PM	R3300
Carbon dis	willin .		ND	2.0		a/L	200 3/23/2016 5/08:35 PM	R3303
Carbon 1e	trachio	nde	ND	0.20	m	g/L	200 3/23/2016 8:08:35 PM	FCSSU2
Chlorobena	zene		ND	0.20	m	J.C.	200 3/23/2016 8:08:35 PM	R3302
Chlorovillus	ini i		NID.	94.0		ali	200 3/23/2016 8:08:35 PM	R3303
Chioroform	r -		ND	0.20		-set	200 3/23/2010 0:00:35 PM	R0500
Chioromet	hane		ND	0.60		aL.	200 3/23/2016 8:08:35 PM	R3303
3-Chiwold	Aurona I		ND	0.20		nat.	200 5/23/2016 5:08:35 PM	R3303
4-Chlurolo	A comment		ND	0.20		on.	200 5/23/2016 8.06:15 PM	R336
05-1.2-DC			ND	0.26		Jak	200 3/23/2016 8-98:35 PM	R030
cia-1.3-Did		CORRECT TO A DECISION OF THE PARTY OF THE PA	ND	0.29		404	200 3/23/2016 8:08 35 PM	R330
1,2-Dibromo-3-childropropune		ND	0.40		1.pe	200 3/23/2016 6:06 35 PM	RIGHT	
Dibramach	ioromi	thane	ND	0.26		. for	200 3/23/2016 8:08:35 PM	R3300
Dibromomethane		ND	0.20		g/L	200 3/23/2016 8:08:35 PM	PC3302	
1.2-Dichlor	obenze	ne	ND	0.20		g/L	200 3/23/2016 8:08:35 PM	R330
1.3-Dichloroberceno		ND	0.207		Non.	200 3/23/2016 8118/35 PM	123300	
1,4 Dishkrobortzono		ND	0.20	mp/L		200 3/23/2016 8:08:35 PM	Pc3303	
Dichlorodif	luorom	ethane	ND	0.20		J.L	200 3/23/2016 8:08:35 PM	R330
1.1-Dichlor	oethar	0	ND	0.20	mg/L		200 3/23/2016 8:08:35 PM	R330
1.1-Dichlor	oether	0	ND	0.20		a/L	200 3/23/2016 8:08:35 PM	R330
1.2-Dichlor			ND	0.20		ng/L	200 3/23/2016 8:08:35 PM	R3303
1,3-Dichior			NU	0.20		g/L	200 3/23/2016 8:08:35 PM	R.S.SU.
2.2-Dichlor			ND	0.40		ng/L	200 3/23/2016 8:08:35 PM	R330
1.1-Dicision			NO	0.20		ng/L	200 3/23/2016 8:08:35 PM	R330
Intexachioro			ND	0.20		NJ/L	200 3/23/2010 0.00.35 FM	76550
2-Hexanon			ND	2.0		ng/L	200 3/23/2016 8:08:35 PM	R330
higotoyib			ND	0.20		na/L	200 3/23/2015 8:08:35 PM	R330
4-taoptopy			NO	0.20		aL.	200 3/23/2016 8108 35 PM	RECIT
4-Mellovi-2			ND	2.0		U/L	200 3/23/2016 8:08:35 PM	R330
Mailtylaine			NO	0.60		ng/L	200 3/73/2014 R:08:35 PM	RODIO
in Butylewa			ND	0.60		Hg/L	200 3/23/2016 8/08:35 PM	R3302
Refe	r te th	e OC Summary report on	d semule log	in checklist for	Haes	red OC a	late and preservation informatio	n.
Unalifiers:		Value exceeds Maximum Co			в		detected in the associated Method Blasi	
A summer de	D	Sample Diluted Due to Matri			E	Value al	www.mantitation.mnme	
	H	Holding times for preparation				Analute	detected below quantitation limits Pa	14.14
	ND	Not Denoted at the Reporting			T.	Remain	old Nea ba Ranger	go 2 6f
	R	RPD outside accepted recover			RL		g Desection Linui	
	5	To Recovery sounde of range		in malma	w		containin températine is out of limit as o	nontion.

Analytical Report Lab Order 1683839

QC SUMM	AV487	1403839 35 Mar 16		
Client: Project:	nmental Analysis Laborato Souder, Miller and Associates Pump Canyon CS	J. Inc.		23-Mac-19
Campte ID rts Client ID: POW	GempType: MBLR Build: D. R33024	TestCode EPA Method 82008. VOLATILE3 RunNo: 33024		

	Caroptei ID 10	GempTy	se MB	LR .	TestCo	de EPA Mitlins	REPORT YOU	ATILES		
	Client ID: POW	Batch.	10. RS	624	Runt	No: 33024				
	Prep Date:	Analysis Da	ste: 3/2	3/2016	Seq	No: 1013063	Units: µg/L			
	Analyte	Result	POL	SPH value SPI	Ret Val	REC LOWLING	HighLimit	-	RPDUmit	
	Benzene	ND	1.0		and the second					-
	Toluene	ND	1.0							
	Etrybenzene	ND	1.0							
	Methyl leni-bulyl ether (MTBE)	ND	1.0							
	1,2,4-Trimethybenzene	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							
inter-	strong :	NU NO	80.							
- 1 H	Romospiere	ND	1.2							
	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							
	Chiorobenzene	ND	1.0							
	Chicroethane	ND	2.0							
	Chioroform	ND	1.0							
	Chikaramethane	ND	3.0							
	2-Chlorotoluene	ND	1.0							
	4-Chlorotoluene	ND	1.0							
	dis-1.2-DCE	ND	1.0							
	cis-1,3-Dichloropropene	ND	1.0							
	1.2-Dibromo-S-chikropropose	ND	2.0							
	Devomidationeneitrane	ND	0.0							
	Devonometiana	ND	1.0							
	1,2-Dichlorobenzene	ND	1.0							
	1,3-Dichlorobenzene	ND	1.0							
	1,4-Dichlorobenzere	ND	1.0							
	Dichiorodifuoromethene	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	NU	2.0							
	Qualifiers:	1.25	_			102.77				
	 Value exceeds Maximu 	m Contaminant L	evel.	в	Analyte det	ected in the associ	ated Method Bla	nk		
	D Sample Diluted Due to			E		e quantitation rang				
	H Holding times for proye		inente			inited below quant			Page 4	1
	ND Not Detected at the Kep			P		Not in Kange			a nge a	1
	R RPD outside accepted r			RJ		Detection Limit				
	S % Recovery outside of a					tainer temperature				

Hall Environmental Analysis	i Labora	tory, Inc.	Analytical Report Lab Order Jen3839 Dan Reported: 3/25/2014					
CLIENT: Souder, Müller and Akaocule Project: Pump Canyon CS Lab ID: 1603839-001	Matris:	L AQUEOUS	Steel Sample (D; Puni) Canyon Non Exempt Collection Date; 3/15/2016]; [1:00 PM Received Date: 3/16/2016 7:45:00 AM					
Analyses	Besult	PQL Qual	Units	DF Date Analyzed	Batch			
EPA METHOD 82898: VOLATILES				Analyst	DJF			
vi-Propylben/ene	ND	0.20	Jam.	200 3/210/016 a Da 35 PM	833024			
toc-Bubybenzenii	ND	0.20	mon.	200 3/23/2016 6:08:35 PM	R25324			
Styrene	ND	0.20	mg/L	200 3/23/2016 8.08.35 PM	R33024			
tert-Butylbenzene	ND	0.20	mg/L	200 3/23/2016 8:08:35 PM	R33024			
1,1,1,2-Tetractilocoethane	ND	0.20	mat.	200 3/23/2016 6:08:35 PM	835124			
1,1,2,2 Tetrachloroothane	ND	0.40	mgiL	200 3/23/2016 8:08:35 FM	R83024			
Tetrachloroethene (PCE)	ND.	0.20	mg/L	200 3/23/2016 8:08:35 PM	R33024			
trans-1,2-DCE	ND	0.20	-mon.	200 3/23/2016 6:06:35 PM	R35024			
iranu-1.3-Dichice automan	ND	0.30	ingit.	200 3/23/2016 8/06.35 FM	R33024			
1.2.3-Trichkinbergere	ND	0.20	mgtfL.	200 3/23/2018 8:08:35 PM	R33024			
1,2,4-Thchiorobenzene	ND	0.20	mg/L	200 3/23/2016 8:08:35 PM	R33024			
1,1,1-Trichloroethane	ND	0.20	mg/L	200 3/23/2016 8:08:35 PM	R33024			
1,1,2-Trichlexcelhenw	ND	0.20	mg/L	200 3/23/2016 8:06.35 PM	R33024			
Trichloroethene (TCE)	ND	0.20	mg/L	200 3/23/2010 8:08:35 PM	R\$5024			
Trichlorofluoromethane	ND	0.20	mg/L	200 3/23/2016 8:08:35 PM	R33024			
1.2.3-Trichleropranum	ND	0.40	myst.	200 3/23/2018 8:08:35 PM	Ff33024			
Vinyl etilonde	ND	0.20	mgit	200 3/23/2016 8:08:05 PM	1233024			
Xylimines, Titelia	NO	0.30	mg/L	200 3/23/2016 8:08:35 PM	R33024			
Eur 1.2-Dichlorailhame-dA	94.2	70+130	S/Rin;	200 3/2//2016 8 DB35 PM	H33074			
Sum: A-Bromo/fuorobergame	104	70-130	SARAKI	200 3/23/2016 8:08:35 PM	FI33024			
Sur: Dibromatureomatheme	98.6	70-130	%Rec	200 3/23/2016 8:08:35 PM	R3302#			
Sun: Toluene-d8	99.1	70-130	%Rec	200 3/23/2016 8.08.35 PM	R33024			

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

 to the QKS Summary Propert and sample login shocklist for flagged QC data and preservation information.

 * Vide exceeds Maximum Contaminet Levit.
 B

 D Sample Dhalo be to Marin
 E

 B
 E

 Multiple detected be to Marin
 E

 M
 Finite above quantitation range

 H
 Hubbles lists for preparation or scalarity recorded

 M
 Registration for preparation or scalarity recorded

 B
 RPD manded scorept droxery limits

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 RPD manded scorept droxery limits

 S
 Stocketsory outside of range de to dilision er mans

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 Stocksory outside of crange de to dilision er mans

Analysis accessing and a second second second second second second and second sec

QC SUMMARY REPORT AVER. -----Hall Environmental Analysis Laboratory, Inc. 13-Mar-In

e in i			al fa	-	-	1.0.0	George Cont		_	
Sample ID rb		Type: M					6209B. VDL	MILES		
Client ID: PBW	Eato	6.10 R	13024	-	RuniNo: 3	3024				
Prep Date:	Analysis [Date: 3	23/2016	1	SeqNo: 1	013063	Units: µg/L			
Analdyst	Result	POL	SPK value	SPK Rat Val	BREG	LowLinit	HighLimit	%RPD	RPDLmit	Qual
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
sopropylbenzene	ND	1.0								
4-Isopropy/toluene	ND	1.0								
I-Methyl-2-pentancne	ND	10								
Vethylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
-Pirpylowszawe	NO	3.0								
-caulybermen	ND	1.0								
Styrene	ND	1.0								
ert-Butyloenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachkoroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
rans-1,2-DCE	ND	1.0								
rans-1,3-Dichloropropene	ND	1.0								
2,3-Trichloroberzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichlotoethang	ND	1.0								
1.9.Tichimethere	ND	50								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Kylenes, Total	ND	1.5								
Sur: 1,2 Dimonettune-ol-	9.4		10.00		94.3	70	130			
Sur 4.Botokoponani	11		10,00		114	70	130			
Sur Disconfluomenane	0.0		10.00		97.6	10	190			
Sur: Toluene-d8	9.9		10.00		99.1	70	130			
Sampie ID 100mg les b	Samp	iyon: La	15	Ten	Code E	PA Method	AZTALE: VOL	ATELES		
Client ID: LCSW		NID R			NinNo 1					
Prep Date:	Anatypes 1				SegNo: 1		UNTE HOT			
Contraction of the second seco							(100
Anniyin	Wanut	POL		SPK Ret Va	MAREC		HighLimit	SRPD	INPOLINIE	Quei
Tokuene	32 22	1.0	20.00	0	110	70.	130			
Dhiorobenzene	22	1.0	20.00	0	109	70	130			
umorocenzono	21	1.0	20.00	0	105	70	130			
Qualifiers:		-	-							
 Value exceeds Maximur 	Contentioner	Long.		D Auctor	distante 1	a the superior	nd Method The			
		Area.								
 Sample Distand Date to N Holding times The prepare 						titation catego where quantic			Page 5	04

OC SUMMARY REPORT

 Clickit:
 Soudor, Millic and Associates

 Project:
 Pump Canyon CS

 Bangla ID MB Seat?
 Gene/Type: MOL/C

 Camil ID, PBW
 Bairo ID: 24312

 Prop Dam: 3/H7/2016
 Analysis Dele: 3/H2016

Clicut:

Analyte Mercury

Sample (D LCS-24317

Prop Dete: 3/17/2018

Analyse Mercury

Hall Environmental Analysis Laboratory, Inc.

Souder, Miller and Associates

SamoType. LCS

Batch ID: 24817 Analysia Dale: 3/18/2018

NUL NR Drosody i proposty from Napavity James R. 2020 particle reported recovery limits S. Wit Drovery onside of trages due to dilution or matrix W. Steppe container tragestructure is on of limit as specified

TestCode: EPA Method 7478 Mercury RumNo: 32894 SegNo: 1008338 Unic. mg/L

TestCode: EPA Milliod 7470: Mercury

Retuil POL SPK value SPK Ref Val V.REC LowLimit HighLimit NRPD RPDLimit Oaail ND 0.00020

Burths 33894 Sinche 1002330 Units angl

 Result
 POL
 SPK value
 SPK Ref Val
 %REC
 LowLimit
 HighLimit
 %RPD
 RPDLimit
 Guist

 0.0051
 0.00020
 0.005000
 0
 102
 80
 120

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Clients Souder, Miller and Associates

Project: Pump	Canyon CS							-		
Sample ID 100ng las b	Samp	Type: LC	:8	Too	Cure E	PA Method	82608: VOL	ATILES		
Client ID: LCSW	Bato	hID: R3	3024	F	RunNo: 3	3024				
Prep Dala	Analysis	im 3/	23/2016	1	SeqNo: 1	913064	Units: µg/L			
Analysi	Result	POL	SPK WALK	SPR Ret VM	WREC.	LowLimit	HolLint	D3BH	RPDUMT	Quil
1,1-Dichloroeimene	21	1.0	20.00	Ū	107	70	130			
Trichloroethene (TCE)	22	1.0	20.00	0	110	70	130			
Sur: 12-Dichloroethane-64	10		10.00		101	70	1:00			
San: 4-Bromo/Lorobenzenc	11		10.00		110	70	130			
Surr: Dibromofluoromethane	11		10.00		106	70	130			
Sum Talance dil	10		10.00		100	70	120			

West images

Page 6 of 8

23-Mar-16

- Qualifiers:
 Value exceeds Maximum Consuminant Level.

 D Sample Diluted Date to Marix
 11 Holday truths: for repromiting readysis exceeded.

 ND
 Not Detected at the Reporting Linet

 R
 RPD oxide accepted recovery linets

 5
 % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Nank
 E Value above quantitation range
 J Analyte detected Methor quantitation (limits)
 Composite pill New In Range
 R. Reporting Detection Limit
 W Sample container temperature is out of limit as specified

	r, Miller and Canyon CS	Associ	atea								
runp	canyon co		_					_	_		
Sample ID MB-24322	Samp	Туре: М	BLK	Too	iGode: E	PA 6010B:	Total Recover	able Met	ele		
Client ID: PBW	Bat	ch ID: 24	1322	5	RunNo: 3	2920					
Prep Date: 3/17/2016	Analysis	Dole 3	/21/2016	2	SegNa 1	009590	Units: mg/L				
Analyte	Result	PQL	SPK willue	SPK Kel Val	SREC	LowiLimit	Honumit	WRPO	RPDLimi	Clani	
Arsenic	ND	0.020									
Barium	ND	0.020									
Cadmium	ND	0.0020									
Chromium	ND	0.0060									
Lead	ND	0.0050									
Selenium	ND	0.050									
Silver	ND	0.0050	(
Sample ID LCS 24322	Samp	Type La	09	Tea	Quade E	PA 00100.	Total Recover	nide Mate	ala .		
	Bak	11D: 24	1322		Ruphia 32920						
Client ID LCSW			21/2016	5	SegNo: 1	009591	Units: mg/L				
Prep Date: 3/17/2016	Analysis	Date: 3	0102012					SAPO	RPDLimit	Qual	
	Analysis Result	Pol.		SPK Rel Val	MREC.	LowLimit	HighLimit	35460			
Prep Date: 3/17/2016			SPK velasi	SPK Rul Vai 0		LowLimit BO	HighLimit. 120	SHPD	No Digitita		
Prep Date: 3/17/2016 Analyte	Result 0.48 0.46	POL	SPK velue 0.5000		UREC.			354450	THE LOCATION		
Prep Date: 3/17/2016 Analyte Anersit Barkan Cadmium	Result 0.48	PGL 0.020 0.020 0.020	SPK velue 0.5000 0.5000 0.5000	0	SREC 96.0	80	120	SHPD	THE LALINE		
Prep Date: 3/17/2016 Analyte Anerot Barban	Result 0.48 0.46	PGL 0.020 0.020 0.0020 0.0020 0.0060	SPIK velaat 0.5000 0.5000 0.5000 0.5000	0	SREC 96.0 92.0	80 80	120	224140	AT DEPEN		
Prep Date: 3/17/2016 Analyte Anersit Barkan Cadmium	Result 0.48 0.45 0.47	PGL 0.020 0.020 0.020	SPIK velaat 0.5000 0.5000 0.5000 0.5000	0 0	UREC 96.0 92.0 93.6	80 80	120 120 120	224140	IN DEPOS		
Prep Date: 3/17/2016 Analyte Ananae Gadmium Chomium	Result 0.48 0.45 0.47 0.46	PGL 0.020 0.020 0.0020 0.0020 0.0060	SPK velaat 0.5000 0.5000 0.5000 0.5000 0.5000	0	NREC 95.0 92.0 93.6 91.5	90 90 80 80	120 120 120 120	CAN'S	Nº LADINI		

Qualifiers: • Viahe exceeds Maximum Contaminant Level. D Sample Dihited Dae to Mazix H Malang mms in preparamon m analysis exceeded ND Not Decords at the Reporting Limit: R RPD mails exceeded records records records limits	B Analyte detected in the associated Method Hank E Value above quantitation range J Analyte sizened below quantitations limits P. Sample gll Not in Range R. Renoting Detection Limit	Page 7 of 8	Qualifiers: • Value ecceeds Maximum Contaminant Level. D Sample Diluted Dae to Marix II. Hedding times for pergradulos os sindynis ecceded. ND No Detected an de Naporting Lane: R. RDD outside accentel accentery limits	B Analyte detected in the associated Method Blank Value above quantitation range Analyte laterend below quantitation famile Complex pld Texts in Range R. Reporting Detection Limit	Page 8 of 8

WAN

LOBARS ..

75-Mar-14

HALL ENVIRONMENTAL ANALYSIS LABORATORY	777 503 545 8973	4901 Harekias N. georgan, N.M. 8110	Samp	le Log-In Ch	ieck List
Client Name: SMA-FARM	Work Order Number:	1603839		ReptNo:	(
Received byldate: 1 m	03/16/14				
Locoed By Anne Thome	3/16/2016 7:45:00 AM		an A-		
Completed By Anne Thome Reviewed By: 14 5 11 6	3/16/2016		an A-		
Chain of Custody					
1. Custody seals intact on sample bottles	2	Yes 🔲	No 🖸	Not Present	
2 is Chain of Custody complete?		Yes 🗹	N/v 🗔	Noi Present	
3. How was the sample delivered?		Courier			
Log In					
4. Was an attempt made to cool the same	ples?	Yes 🗹	No 🗆	NA 🗆	
5. Were all samples received at a temper	ature of >0° C to 5.0°C.	Yes of	No 🗆	INA 🗇	
6. Sample(s) in proper container(s)?		Yeq 🐼	No 🗆		
7. Sufficient sample volume for indicated	tesh(s)?	Yes 7	Na 🗇		
B. Are samples (exclipt VOA and ONG) p	roperty proserved?	Yes X	No		
9. Was preservative added to bottles?		Yes 🗆	No 🗹	NA 🗆	
10.VOA viale have zero Insulapace?		Tus Z	No 🗔	No VOA Viele	
11. Were any sample containers received	biokan?	Ves []	No 🗹	# of preserved	2
12 Does papereors match bottle labels? (Hole discrepancies on chain of patters	-	Ves R	No LL	bottles checked	>12 united ind
12. Are metrices correctly identified on Ch	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ten 2	No 🗔	Adjusted?	NO
14, to it clear what analyses were requeste	and the second	Yes 2	No \Box		
15. Were all holding times able to be mell (if no, notify customer for outhorization		Yes 🕅	NO D	Checked by:	23
Special Handling (If applicable)					
16, Was client notified of all discrepancies	with this order?	Yes 🗆	No 🗌	NA M	
Person Notified:	Date		-		
By Whore	Var	aMai [] Ph	one [_] Fex	I In Person	
Regarding.					1
Client Instructions: 17. Additional remarks:		1.1.1.1.1.1	- Company	a summer	
18. Cooler Information Cooler No Temp *C Condition	Sepimber Seal No	Sitel Date	Signat By		
P 1.3 0000	165				

Control Description Read of the second Read of the second <th>Proper Management Proper Manage</th> <th>Whether Station Statio</th> <th>Water Duridate State The man Revents the full list's februar Terl</th>	Proper Management Proper Manage	Whether Station Statio	Water Duridate State The man Revents the full list's februar Terl
0 1 1	e 5 345 - 75 36 Act 1 av Actor 20 Send 8c av 77 8cm D. Level 4 (Full Valcak D. Level 4 (Full Valcak D. Correct	1 Her Rughengen Lang	The second of the
Chail Subtree	e #: 5-	13:41	1 TA

2017

Diarros III 1000 Rio Reserves Road, Annes Niel 87640 Queres PV 1220 S. In. Francis De Santa Fe, 166 97505	Oil Conservation Division	Window Million Management & Martin Control of	
	1220 South St. Francis Dr. Santa Fe, NM 87505	Surface Wante Management Facility Operator and Groweniae abalt painteen and make this documentation available for Djuntum negacritica	e
REQUEST F(); Generator Name and Addressy N Albuquerque, New Mexico 87109	DR APPROVAL TO ACCEPT S ew Mesico Gas Company 7120 Wyuming BLV	OLID WASTE /0, NE, STF, 20 BC-22	
2. Originating Site: Corto Pipeline p	roject 107"59'3.037"W 36"41'1.844 "N		
3. Location of Material (Street Addr	esa. City, State or ULSTR): Corto Project 107	1959'3.037''W 36°41'1.844''N	
 Source and Description of Wester (Tyy conducted on X 10,000-gallon storage t 	dimitatic uss water from a Municipal Source i anks.	n newly constructed pipe. Analysis was	
James Lloyd	Known Volume (to be enternal by the operator at R CERTIFICATION STATEMENT OF WAY tative or authorized agent for New Messico Gas vation and Recovery Act (RCRA) and the US En- waste in (These the appropriate leavailfocation)	STF STATUS s Company do hereby	
RCRA Exempt: Oil field wastes nen	waters TC neck the appropriate classification) ensied from oil and gas exploration and productio Waste Acceptance Frequency D Monthly D		
Clumiclenulics established in RCRA man	which is non-heardour that does not exceed the lations, 40 CFR 261,21 263,24, or listed hazardo Scumentation is attached to demonstrate the above	minimum stamlastic for weavy hazardous by	Report Review
MSDS Information S RCRA Hazardos	as Waste Analysis 🔯 Process Knowledge 🗖	Other (Provide description in Box 8)	
	STE TESTING CERTIFICATION STATEMI	ENT FOR LANDFARMS	
	ative for- ive been subjected to the paint filter test and tests purchants upplicable to landfarms pursuant to Se emonstrate the alowe-described waste conform to		
Transporter:			
CD Permitted Surface Waste Management	Facility		
Name and Pacifity Permit a: UM7-01-, Address of Facility CORD 360 #	345 Francisan da marces		
Method of Treatment and/or Disposal:	BHUI	dfill 🔲 Other	Time
aste Acceptance Status:		ust Be Maintained As Perminent Record)	/epr
INTNAME CAULE HISTO	TITLE: Seperinter	DATE: 12/12	CYBE IS Mighway 64, Earts Filter Springs - 65 Metcade

Analytical Laboratory

Analytical Report

Report Summary Dilem: New Mexico Gas Co. Chain Of Custody Number Samples Received: 12/8/2017 2:40:00PM Job Number: 09137-0065 Work Order: P712019 Project Name/Location: Corto Hydro Test

9t Dalte Hahan

12/12/17

Date:

Walter Hinchman, Laboratory Director

Tim Cain, Quality Assurance Officer

Date: 12/12/17

The results in this report apply to the samples submitted to Environment's Analytical Labors on well were analyzed by accordinger with the chain of causicity document supplied by load, the client, and as low to prove exclusive use only. The results the report we beach on the sample an encounter alives prevent or such clients of the report well and the prevent of the chain or increased in reports. This result is increased and prevent on the sample of Environhol, itse, if you have y quantities regarding the reports. This result is increased and on the sample on control of the result of the same of the same don't measure the control of the result of t

15 Highway 64, Terrenogen, Ale (120) Springt - 65 Mexade Street, Selle 115, Junaego, (3) 81301 Pr

Ph. (395) 672-4615 (7) (395) 672-1865 Ph. (375) 258-6615 (7) (866) 362-1879

Page 1 of 14



New Mexico Gas Co. F/O. Box 97500 Albupterque NM, 87199-7500	Project Name: Project Manufer: Project Manufer,		Corto Hydro Teat 09137-0065 Girtg Ciriliane	Réportéel: 12:Dec-17 15:11								
	Analyical Report for Samples											
Client Semple ID	Lab Sample ID	Matrix	Sampled	Received	Contaider							
Corte Tank #200	P712019-01A	Aquenus	12/08/17	12/08/17	Poly 250ml.							
Como Tank #3(#)	P712019-02A	America	12/08/17	12/08/17	Pohr 250mL							
Corio Tank #400	P712019-03A	Aqueous	12/08/17	12/08/17	Poly 250mL							
Corto Tank #500	P712019-04A	Aqueous	12/08/17	12/08/17	Poly 250mL							
Cortu Tank #600	P7(2019-05A	Agamou	12/08/17	12/08/17	Pely 250mL							
Corto Tand. #760	P712019-06A	Aqueous	12/08/17	12/00/17	Poly 250mL							
Conto Tank #800	#712019-07A	America	12/08/17	12/08/17	Poly 250ml.							

Cenvirotech

New Mexico Gas Co. P.O. Box 97500 Attraquentue IVM, 87199-7300	Project	Name Number Manager	0913	n Hydro Ten 7-0665 Crelator				Reportant 12-Dec-1713	
			o Tank #						
100	1000	Reporting							1
Asalys	final .	Lint	Users	Dilation	Bash	Property	Anniyoni	Method	10des
or rush ky		_	_	_	_				_
1 (625°C	7.59		ht over	¥	1/30204	31/11/17 13:06	12(1/1714-28	904SD 9040 C	101
aste Characteristic									
asli Pavint	>15		°C .	1.	1752005	121107	10/Linit	ASTM	_
cardinety.	Negative		-	4	1750006	1311-17	12/12/17	D93-80a	
	11-20-11-1			1		in the second se	the set		
Partia) or incomple	le reproduction a	of this repo	rt is proh	ibited, uni	ess appn	oved by Env	irolech, Inc.		
57%6 %5 Highway 64, Farmington, NH 87401				Fr (505) 63				-	
Three Springs - 65 Marcado Street, Sulte 115, Datasgo,	081301	Ph (9	(70) 259-0611	5 Fr (800) 35	2-1679				
and a second second second									
							1.1	Page	3 of 14

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1796 US Highway 64, Farmington, Hill 87 Att 1 Three Springs - 65 Mexcado Street, Suite 115, Dusange, (D 81101

Page 2 of 14

Analytical Laboratory

New Mexico Gas Co. P.O. Box 97100 ABsogneration: N3A, 87149-7500	Projess	Patojous Husselver:		Conto Hydro Test 09137-0065 Greg Endorce					150
			Tank #	206	-				
		Reporting	-			-			
Analyte	Reed	Line	Uaro	Dileton		Perparet	Analyzed	Method	Tiotes
Carrashulty					201		-		_
H #25°C	7.55		within .	0) TSKODOW	12/11/17 13:00	13/31/17 14:28	9045019940 C	
Waste Characteristic		1000	-				and and and	1.2.	
Flash Poest	≥95		¢	1.	1750065	12:11/17	rutinel	ASTH D93-186	
Reactivity	Negative		THA.	1	1750006	12/11/17	12/12/17		

Cenvirotech Analylical Laboratory

New Menice Cas Co.	Project	Nami:	Corio	Hydro Test						
P.O. Box 97500				09137-0065					10	
Albuqueque NM, 87199-7500	Project	Project Manager:			Greg Crebuve					
			Tank #4							
		Reporting						100		
Analyse	Read	Louis	Unite	Dileose.	Beich	Property	Analyzed	Method	filles	
Corresivity	-							-	_	
pH @25°C	1.55		ell United	t	THORE	12/11/17/13/06	12/11/17 14:28	C C	н	
Waste Characteristic							_		_	
Plash Point	-95		°C.	×) 750065	120(1/17	12/12/17	AST2A D93-10s		
Reactivity	Negative		N/A	1	1750006	12/11/17	12/12/17			

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5796 05 Nighway 64, Fazenegino, Ald 87401 There Springs - 65 Mercado Street, Suite 115, Dusange, CD 81301

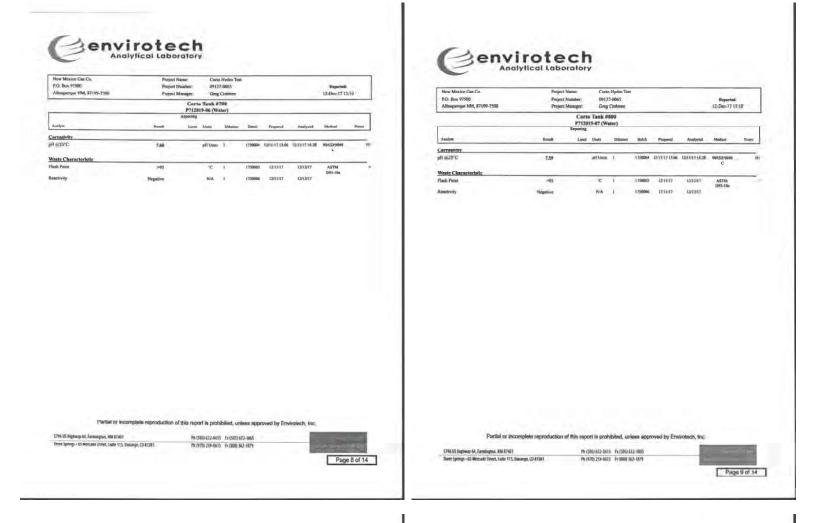
Ph (505) 632-0615 Fz (505) 632-1865 Ph (970) 259-0615 Fr (800) 362 1879

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4



-	envirotech
-3	envirorech
-	Analytical Laboratory

New Mexico Gas Co.	Pro	ject Name:	C	orto Hydro T	est		-			
P.O. Box 97500	Pro	ject Hunler:	01	111-0015					Report	det
Allinguargue NM, 87399-7500	ompe NM, 87199-7500 Project Masseger, Grag Crabine							12-Dec 1718-10		
		Cerrenty	ity-Qas	lity Cont	(en					
	E	nvirotech.	Analytic	cal Labor	natory.					
		Reporting		Spike	Severar	1.7	NREC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Linit	Moles
Batch 1750804 - Wet Chemistry Preparation						_		-	_	
LCS (1758804-851)				Prepared d	k Assiyat	H-Dec-1	1			
-11 14	7.96		est time	8.99		99.2	20.74.103.25			
Duplicate (1750004-00P1)	Sec	ere: P712019	101	Frequence a	k Analyzod	II-De-I	İ			
pH	7.59	1.00	pH Units		7.59			0.00	20	

-	
1 30	envirotech
1 35	invitorecti
	Analytical Laboratory

New Mexico Gar Ca. EO, Box 97500 Alfsquerque NM, 87199-7500	Pro	ijert Number ijert Number ijert Managar	0	one Blydre T 1137-0065 reg. Crabine	R18				Report 12-Dec-1	
		nte Charac								
	6	avirotech /	thaiyu	cal Labor	story				_	
Amelyne	Kest	Reparing A set	this.	Spile Level	Some Result	MHC	SREC Limits	RPD	8PD Limit	Net
Batch 1750005 - Wet Chemistry Proparation										
LCS (1759085-851)				Prepared:	1-Dec-17	Analyzed	2-Dec-17			
Flash Point	115		°C	111		104	95-105			
LCS Dap (1756085-85D1)				Preparat	I-Dec-17	Ambred	2-Dec-17			
Flash Front	112		÷C	111		101	95-105	144	100	_

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5796 US Highway 64, Farenegten, HM 87403 Thire Springs - 65 Mexado Sirvet, Solie 115, Dutange, (D 81303 Ph (585) 632-9615 Fx (585) 632-1865 Ph (970) 259-9615 Fr (880) 362-3878

Page 10 of 14

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 3796 US Highway 64, Farmandon, IMI 67811
 Ph (SSI3 613-6615
 Fr (SSI5 613-6615
 Fr (SSI5 613-6615

 Thire Springs - 65 Metcade Silvert, Sotte 115, Desango, CD 81301
 Ph (S919) 255-6615
 Fr (SB0) 362-8879

Page 11 of 14

	huquerque NM, 87199-7588	Project Hame: Conto Hydro Tost Project Hydrobe: 071373-005 Project Manager: Greg Crabere	Reported 12-Dec-17 15:10	
<form></form>	Exceeds upper permit limit Analyte DETECTED Analyte TOT DETECTED at or abor Not Reported Sample results reported on a dry wei	nay kold-sine exceeded for anyir analyse. • en systems fan		Chain of Clustody Chain of Clustody Chain of Clustody Lab Chy Chain of Clustody Clustody Clustody Clustody Clustody Clustody Clustody Clustody Clustody Clustody Clustody
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Constraints and the set of t	PAR RELATION		Olse on the	
ANDERATOR 19.152.66.15 WASTE TESTING CRETIFICATION STATEMENT POR LANDEARMS (Increased and the set of	TAT T		Line Description Descrip <thdescrip< th=""> Descrip<</thdescrip<>	Location of Material (Street Address, City, Sinte or ULSTR); UL L Section 33 Township 30 North Range 9 Weil; 36,767063,-107,792775, San Juan Cuunty, NM Source and Description of Waste; Severes: Soil imposted with labe oil, motor all or condensate. Description: Non Exercised North Range 9 Weil; 36,767063,-107,792775, San Juan Cuunty, NM Severes: Soil imposted with labe oil, motor all or condensate. Description: Non Exercised North Range 9 Weil; 36,767063,-107,792775, San Juan Cuunty, NM Severes: Soil imposted with labe oil, motor all or condensate. Description: Non Exercised North Range 9 Weil; 36,767063,-107,792775, San Juan Cuunty, NM Severes: Soil imposted with labe oil, motor oil or condensate. Severes: Soil imposted with labe oil, motor Not Range 9, yeil (Jobis) Severes: Soil imposted with labe oil, motor Noture (to be entered by the operator at the end of the hard) yd ¹ /bbls Severes: Soil imposted with labe of the County of the County of the County of the County of the County of the Severes: Soil imposted 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 19
S. Transporter: To Be Determined Most Schress OCD Permitted Surface Water Management Pacifity None of Pacific Schress Oct Permitted Surface Water Management Pacifity None of Pacific Schress Oct Permitted Surface Water Management Pacifity None of Pacific Schress Oct Permitted Surface Water Management Pacifity None of Pacific Schress Oct Permitted Surface Water Management Pacifity None of Pacific Schress Oct Permitted Surface Water Management Pacifity None of Pacific Schress None of Pacific S	ина цер мода нар. ила сперетор и или сперетор и или сперетор и или сперетор и или сперетор и или сперетор и или сперетор и или сперетор и или или спере	2 CALL	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Lacatian of Material (Street Address, City, Sinte or ULSTR); UL L Section 33 Tomship 30 North Range 9 West; 36,767863,-107.792775, San Jaan Cuunty, NM . Source and Description of Waste: Source: Soil impacted with labe ail, motor oil or condensate. Description: Non Europy:Nonshipaziona Soil from housekeeping activities. Estimated YolinneB0wd*(big). Known Yolume (to be entered by the operator at the end of the hau))yd*(bbla S
Address of Facility's SW4 NW4 Section 2, Township 29N, Range Crouch Mesa, NM	Respond Attention Leb Use Only Table Only <thtable only<="" th=""> Table Only <th< td=""><td>2 CALL</td><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>Lacatian of Material (Street Address, City, Sinte or ULSTR); UL. Section 33 Tornship 30 North Range 9 West; 36,767863,-107.792775, San Jaan Cunnty, NM 4. Source and Description of Waste: formers: Soil imposed with labe oil, noder oil or condensate. Description: Non Exercise/NorthWaste Soil from house/aceping activities. Estimated Yolume_10_ydd (Math). Known Volume (to be entired by the operator at the end of the heal)ydd'/bbbs So GKNERATOR CENTIFICATION STATEMENT OF WASTE STATUS I. Thomas Lange Jack State: Texpresentiative or sutherized agent for Enterprise Products Operating do hardby Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 19 regulatory determination, the above described waste is: (Check the appropriate classification) </td></th<></thtable>	2 CALL	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Lacatian of Material (Street Address, City, Sinte or ULSTR); UL. Section 33 Tornship 30 North Range 9 West; 36,767863,-107.792775, San Jaan Cunnty, NM 4. Source and Description of Waste: formers: Soil imposed with labe oil, noder oil or condensate. Description: Non Exercise/NorthWaste Soil from house/aceping activities. Estimated Yolume_10_ydd (Math). Known Volume (to be entired by the operator at the end of the heal)ydd'/bbbs So GKNERATOR CENTIFICATION STATEMENT OF WASTE STATUS I. Thomas Lange Jack State: Texpresentiative or sutherized agent for Enterprise Products Operating do hardby Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 19 regulatory determination, the above described waste is: (Check the appropriate classification)
Art and a second a	Little Procession Little Disconsistention Little Disconsistention <thlittle disconsistenti<="" td=""><td>2 CALL</td><td>17 District 1: Calify Park Propriet 124/117 mg 18 District 1: Calify Park Propriet 124/117 mg 18 District 1: Calify Park Propriet 124/117 mg 18 District 1: Calify Park Propriet 1: Calify Pa</td><td> Lacatian of Material (Street Address, City, Sinte or ULSTR); ULL Section 33 Tornship 30 North Range 9 West; 36,767863,-107.792775, San Jaan Cunnty, NM Source and Description of Waste: Searce: Soil imposted with labe ait, motor oil or condensate. Description: Non EuropyPhysikapatodus Soil from bouckeeping activities. Extinuted Volume_10_wdf (Malk). Known Volume (to be entaced by the operator at the end of the hau)]ydf (bbb S GENERATOR CENTIFICATION STATEMENT OF WASTE STATUS Thomas Lange Test</td></thlittle>	2 CALL	17 District 1: Calify Park Propriet 124/117 mg 18 District 1: Calify Park Propriet 124/117 mg 18 District 1: Calify Park Propriet 124/117 mg 18 District 1: Calify Park Propriet 1: Calify Pa	 Lacatian of Material (Street Address, City, Sinte or ULSTR); ULL Section 33 Tornship 30 North Range 9 West; 36,767863,-107.792775, San Jaan Cunnty, NM Source and Description of Waste: Searce: Soil imposted with labe ait, motor oil or condensate. Description: Non EuropyPhysikapatodus Soil from bouckeeping activities. Extinuted Volume_10_wdf (Malk). Known Volume (to be entaced by the operator at the end of the hau)]ydf (bbb S GENERATOR CENTIFICATION STATEMENT OF WASTE STATUS Thomas Lange Test

HALL ENVIRONMENTAL ANALYSIS	Hall Beviewsminial Enalytic Laboratory 400 Elivation NE Maloguerrow, UNE 7700 752, 103-843-8972-843-905-343-400	Hall Environmental Analy	sis Labora	itory, Inc.		Analytical Repor Lab Order 1703354 Oute Reported: 3/26	
LABORATORY	Website provide Library and the second second second	CLIENT: Souder, Miller and Associate	25			le ID: 38-1 BGT	
March 28, 2017		Project: 5B-1 CS Lab ID: (703354-00)	Matrix:	AQUEOUS		Date: 3/7/2017 9:35:00 AM Date: 3/8/2017 7:35:00 AM	
Ashley Maxwell		Analyses	Result	POL O	al Units	DF Date Analyzed	Batch
Souder, Miller and Associates 401 W. Broadway		EPA METHOD 7470: MERGURY				Ала	iyat: pmf
		Mercury	ND	0.00020	mat	3/M2017 6 30 41 P	
armington, NM 87401		EPA 6010B: TOTAL RECOVERABLE	METALS			Ána	ivat pmf
EL: (505) 325-5667		Arsenic	ND	5.0	mail	1 3/10/2017 12:46:30	
FAX (505) 327-1496		Banum	ND	100	mgL	1 3/10/2017 12:46:30	
		Cadmium	ND	1.0	mgiL	1 3/10/2017 12:46:30	PM 30610
RE: 3B-1 CS	OrderNo.: 1703354	Chromism	ND	5,0	mgiL	1 3/10/2017 12:46:30	
de. 50-105	Ordenvol. 1705554	Land	ND	6-8	mgl	1 3/10/2017 12 46:30	
		Selection	ND	1.0	.Jem	1 3/10/2017 12:46:30	
Dear Ashley Maxwell:		Sive	ND	50	.Jam	1 3/10/2017 12:40:30	
AND AND AN AVAILABLE AND AND AND AND AND AND AND AND AND AND	TTAK Y SECTOR STA	EPA METHOD 8270C. PAHS					ilyst: DAM
Iall Environmental Analysis Laboratory received 1	sample(s) on 3/8/2017 for the	Naphthalene	1.2	0.50	Jou.	1 3/17/2017 11:20:07	
nalyses presented in the following report.		1-Meihylnschmaisna	ND	0.50	LOU	1 3/17/2017 11:20:07	
		2-MetDryinaphthaterre	ND	0.50	hBr	1 3/17/2017 11.20.07	
hese were analyzed according to EPA procedures of	or equivalent. To access our accredited	Acenaphthylene	ND	0.50	ug1	1 3/17/2017 11:20:07 1 3/17/2017 11:20:07	
mus please go to www.hallenvironmental.com or th	e state specific web artes. In order to	Fluorene.	ND -	0.00	Upt.	1 3/17/2017 11:20:07	
roperly interpret your results it is imperative that yo		Phananetrume	MD	0.90	Vol.	1 3/17/2017 11:20:07	
ee the sample checklist and/or the Cham of Custod		Anilicación	ND	0.50	ugh.	1 1/17/2017 11:20:07	
mple receipt temperature and preservation. Data c		Fluorantheme	ND	0.50	Jugit.	1 3/17/2017 11:20:07	
ovided if the sample analysis or analytical quality		Pyrene	ND	0.50	104	1 3/17/2017 11:20:07	AM 30649
hen necessary, data qualifers are provided on boilt		Bonz(swinthrabonn	(NL)	0.50	P01	1 3/17/2017 11:20:07	AM 30NIR
C summary report, both sections should be review		Chrysene	ND	0.50	10%	1 3/17/2017 11:20:07	
		Benzo(h)/iuman(hene	ND	0.60	HSV-	1 3/17/2017 11:20:07	
ceived, unless otherwise indicated. Lab measuren		Bonzo(k)/kuonanthene	ND	0.50	NOL	1 3/17/2017 11:20:07	
arameters that require analysis within 15 minutes o		Benzo(a)pyrene Ditiokit(a,h)antinacene	ND	0.50	ug/L ug/L	1 3/17/2017 11:20:07	
hforme are qualified as being analyzed outside of th	ie recommended holding time.	Benesia h donymor	ND.	0.50	Mail.	JV17/2017 11/20/07	
		Induno(1,2,3-cd)pyram	ND	0.50	ugit	1 3/17/2017 11:20:07	
Please don't hesitate to contact HEAL for any addition	onal information or clarifications.	Sur: N-hexadecane	45.3	15-176	%Hec	1 3/17/2017 11:20:07	
		Surr: Benzo(e)pyrene	51.0	15-198	%Rec	1 3/17/2017 11:20:07	
ADHS Cert #AZ0682 - NMED-DWB Cert #NM9	425 – NMED-Micro Cert #NM0190	EPA METHOD 8260B: VOLATILES				Ane	ayst RAA
		Bertera	NÖ	0.55	mail	200 3/8/2017 5/05/00 P	
incerely,		Toluond	0.80	0.20	mgiL	200 3/8/2017 6:05:00 P	
		Ethylbenzene	ND	0.20	ngL	200 3/8/2017 6:05:00 P	
		Mathyl two-biolyl ether (MTBE)	NO	0.20	mat	200 3/8/2017 6:05:00 P	
and		1 3 4-Timainyinanzana	NET	6.593	mpil	300 180017 8 05 00 P	
and a second sec		1,3.5-Trimilhy@serizane	ND	0.20	mg/L	200 3/8/2017 5:05:00 P	
		1,2-Dichloronthwne (EDC)	ND	0.20	ing/L	200 3/8/2017 6:05:00 P	M H41747
ndy Freeman		Relier to the QC Summary report	and sample to	gin checklist fe	r flagged QC i	lata and preservation inform	alion-
aboratory Manager		the matter of a state of the	A				
		Qualifiers: Value exceeds Maximum D Sample Diluted Due to M		o.		detected in the associated Method I ove quantitation range	Dunk
901 Hawkins NE		D Sample Dirited Due to M II Holding Users for person		Interest	T Aminte	detected below quantities limits	a land
Albuquerque, NM 87109		HD No Desected at the Repo		and an an an an an an an an an an an an an	B. Sumple	sH Not in Range	Page Lor 10
		R RPD outside accented rev				g Detection Limit	
		N To Receivery materials of re-		OF PARTY		isintainet temperature is out of limit	I as aposition
		the second s					

TEXT. Conder Million and Annual State		tory, Inc.		Lab Order 1703354 Date Reported: 1/29/2017 mple 10: 38-1 84/1					
LIEWT: Souder, Miller and Associates rojeet: 3B-1 CS ab ID: 1703354-001		AQUEOUS	Collection	le 11): 33-1 54/1 Date: 3/7/2017 9:35:00 AM Date: 3/8/2017 7:35:00 AM					
aalyses	Result	PQL Qual	Units	DF Date Analyzed	Batch				
PA METHOD 8260B: VOLATILES		-	-	Analysi	RAA				
1,2-Didromoethares (EDB)	MO	0.25	mid.	200 3/6/2017 6 05 00 PM	R41247				
Naphinimuma	ND	0.40	mpfL	200 3/8/2017 5:05:00 PM	R41247				
1-Methyinaphinaiene	ND	0.80	mg/L	200 3/8/2017 6.05.00 PM	R41247				
2-Methylnaphthalene	ND	0.80	molL	200 3/8/2017 6:05:00 PM	R41247				
Accione	NES	2.0	mol	202 3/6/2017 6:05:00 PM	R41247				
Bromobenzens.	ND	0.20	.Fem	200 3/8/2017 6.05:00 PM	1241247				
Bromodichloromethane	ND	0.20	mg/L	200 3/8/2017 6:05:00 PM	R41247				
Bromalarm	NO	0.20	mañ	200 3/8/2017 5 05:00 PM	R41247				
Bromomalhan	ND	0.00	ngd	200 3/8/2017 6 05:00 PM	1241247				
2-Butanone	ND	2.0	ngl	200 3/8/2017 6:05:00 PM	R41247				
Carbon disulfirm	NET	2.0	mail	200 JJ6/2017 8:05:00 PM	1941247				
Carthan Thirac longe	NO	9.70	mal	200 3/5/2017 5 05:00 PM	641247				
Chloropenzene	ND	0.20	mal	200 3/8/2017 5:05:00 PM	B41247				
Chloroethane	ND	0.40	mpl	200 3/6/2017 6:05:00 PM	R41247				
Chieroform	ND	0.20	mg/L	200 3/8/2017 6:05:00 PM	R41247				
Chlonmelban	ND.	0.60	mol	200 3/8/2017 6:05:00 PM	R41247				
2. Officerotra and	ND	0.23	ingt	201 5/9/2017 6:05:00 PM	B41247				
4-Chierdickama	ND	0.20	mail	200 3/6/2017 6:05:00 PM	1941247				
CIE-1.2-DCE	ND	0.20	mat	200 3/8/2017 6:05:00 PM	R41247				
cis-1.3-Dichitoropropene	NET	0.26	mot	209 3/8/2017 6:05:00 PM	B41247				
1.2-Dihromp.3-chickoppane	ND	0.40	mail	200 3/8/2017 6:05:00 PM	1641247				
Dibromochlorometriane	ND	0.20	mart	200 3/8/2017 6:05:00 PM	R41247				
Dibromomethane	ND	0.20	mgit	200 3/8/2017 6:05:00 PM	R41247				
1.2-Dicziocobergewe	NO	0.20	mg/L	200 3/6/2017 6/05/00 PM	Fi41247				
1.5-Dichlorobungene	ND	0.20	mal	200 3/8/2017 6/05/00 FM	R41247				
1.4-Dichlorobenzene	ND	0.20	mail	200 3/8/2017 6:05:00 PM	R41247				
Dichlorodifizonynatharm	ND	0.20	mail	200 3/8/2017 6.05.00 PM	1041247				
1.1-Ducklessethone	MD:	0.20	-mgit	200 3/8/2017 6:05:00 PM	1241247				
1,1-Dickoroidhene	ND	0.20	ingit.	200 3/8/2017 6:05:00 PM	R41247				
1.2-Dichloropropane	ND	0.20	mg/L	200 3/8/2017 6:05:00 PM	R41247				
1.3-Dichloropropane	ND	0.20	mg/L	200 3/8/2017 6:05:00 PM	R41247				
2,2-Dichloropropane	ND	0.40	mg/L	200 3/8/2017 6:05:00 PM	R41247				
1.1-Diohloropropene	ND	0.20	mg/L	200 3/8/2017 6:05:00 PM	R41247				
Hexachlorobutadiene	ND	0.20	mg/L	200 3/8/2017 6:05:00 PM	R41247				
2.Hexanero	ND	2.0	mg/L	200 3/8/2017 8:05:00 PM	B41247				
Incorpt/Winsown	ND	0.20	mpl	200 J/N2017 6 05:00 PM	F41247				
4-Isocropyliciume	ND	0.20	Apres	200 3/8/2017 8:05:00 PM	R41247				
4-tsopropyliolabre 4-Methyl-2-pertainoise	ND	2.0	man	200 3/8/2017 6/05:00 PM	HA1247				
4-Methyl-2-pertanone Methylana Chlerion	ND.	0.90	mail	200 3/6/2017 6/05/00 PM	R41247				

- Value exceeds Maximum Commission Level.
 D Sample Diluted Due to Matix
 H Holding times for preparation or analysis exceeded
 D. Vate Heneval at the Reporting E land.
 R RPD usualde accepted recovery limits
 S % Recovery outside of range due to dilution or matir
- B Audyte develet in the susceined Method Black
 E Value above quantitation mage
 Audyte factoral black quantitation (limits page 2. (i) 1)),
 Tomple gl4 Ka is longer
 Reporting Develop Limit
 W Sample container temperature is out of finms as specified.

Lab Order 1703354 Hall Environmental Analysis Laboratory, Inc. Data Reported: 3/28/2017 CLIENT: Souder, Miller and Associates Client Sample ID: 38-1 BGT Project: 38-) CS Lab ID: 1703354-001 Collection Date: 3/7/2017 9:35:00 AM Received Date: 3/8/2017 7:35:00 AM Matrix: AOUEOUS Analyses Reanit PQL Qual Units DF Date Analyzed Batch
 DF
 Date Analyzed
 Batk

 Ministra
 RAM

 Ministra
 EPA METHOD 52605: VOLA n-Euijbancawe n-Propybarczene soc-Burybenzane Styrene ter-Burybenzane Styrene ter-Burybenzene 1,1,2-7 terberborosthane 1,1,2-7 terberborosthane 1,2-2-7 terberborosthane 1,2-2-7 terberborosthane 1,2-2-7 terberborosthane 1,2-3-7 terberborosthane 1,3-7 terberborosthane 1,3-7 terberborosthane 1,3-7 terberborosthane Start 12-0 containedman.-34 Start 12-0 containedman.-34 Start 12-0 containedman.-34 Start 12-0 containedman.-34 EPA METHOD 5260B: VOLATILES 200 3/8/2017 6:05:00 PM 200 3/8/2017 6:05:00 PM 200 3/8/2017 6:05:00 PM 200 3/8/2017 6:05:00 PM 200 3/8/2017 6:05:00 PM 200 3/8/2017 6:05:00 PM 200 3/8/2017 6:05:00 PM R41247 B41247 R41247 111 103 104 R41247 Surr. Diamonilupromynnene Surr. Toluena-dil R41247

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

- Value concords Maximum Communicat Level.
 D Sample Dilated Date to Matrix
 Holding union for properties or analysis strended
 Kein And Descend at the Properties Communication
 R RPD consider acceptor recovery limits
 St. Recovery initiate of range date in adulation in matrix

Analytical Report

- D Analyn discuss is the assessed Mithed Disa.
 D Analyn discuss is the assessed Mithed Disa.
 E Value above quantitation range
 T Analyn descent below quantitation limits
 P Sangbright Nuc In Range.
 Reporting Description Limit
 W Sangde randometry for persister is use of limit as questiond

Hall Environmen	Y REPO tal Analy	is I	aborat	ory, Inc.	_				WUE	(703354 38 Mar 17	
Ctient: Souder Project: 3B-1 C	, Miller and A	socia	iles								
Sample ID 100ng (ca2	SempTyp	e Lo	5	Tes	Code: El	A Method	exeen; You	ATRES		1	
Client ID LCSW	Batch	RA	1247	4	b SMmo	1247					
Prop Days:	Analysis Dat	0. 3/	8/2017	5	sigNo: 1	292353	UNTE HOL				
Analyle	Rand	POL	SPK value	SPK Rel Val	WREC	LowLinit	HighLimi	SLRPD	RPDLimit	Quel	
Benzene	19	1.0	20.00	0	96.5	70	130				
Toluene	20	1.0	20.00	0	101	70	130				
Chlorobenzene	21	1.0	20.00	0	104	70	130				
1,1-Dichloroethene	21	1.0	20.00	0	103	70	130				
Trichloroethene (TCE)	19	1.0	20.00	0	94.5	70	130				
Sur 1,2-Oichknonhava-d4	9.5		19.00		94.B	70	120				
Surr. 4 BromofiLorobercontr Surr. DibromofiLoromethane	10		10.00		105	70	130				
Sur: Tolunia-dil	10		10.00		102	70	130				
Sample ID its	SumpTys	e Mi	ILK.	Tes	Code: E	AMethod	8250B: VOL	ATTLES		_	
Climitato PBW	Baich				tunito: 4		Theorem Bo	1.00.00			
Pray Dawn	Analysin Dist		140		Loghin 4	.0.9	time part				
Anatyte		POL		SPK Ref Val			HighLimit	SRPD	RPDLimit	Out	
Benzene	ND	1.0	SEA ATOA	SPK HIF Val	SHEG	LOWLINE	engnitumit	1966-07	REDUNIT	Over	
Toluene	ND	1.0									
Ethyloenzene	ND	1.0									
Methyl wrs-butyl ether (MTBE)	ND	1.0									
1,2,4-TrimeRyberzons	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,2-Dichloroethwne (EDC).	ND	1.0									
1,3-Déronseihane (EDG)	ND	10									
Naphinalene 1-Morryfragwinalana	ND	2.0									
Z Michtelma hibalana	ND	4.0									
Acetone	ND	10									
	ND	1.0									
Bromobenzene	ND	1.0									
Bromobenzene Bromodichloromethane											
	ND	1.0									
Bromodichloromethane Bromolians Botmontegrege	ND	1.0									
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Bromodichioromethane Bromolom Romonactivas 20jelanom Carbon Telocition Carbon Telocitionda	ND ND ND ND ND	1.0 3.0 10 10									
Bronodchloronethane Bronodorm Bronorone 200 Stratory (Swattlender Chlorobertzene	ND ND ND ND ND	1.0 3.0 10 10 1.0 1.0									
Bromodichloromethane Bromodichloromethane Bromomethuw Styletanof J Carbon Fakadbortski Chirobenzene Chirobenzene Chirobenzene	ND ND ND ND ND ND	1.0 3.0 10 10 1.0 1.0 2.0									
Bronodchloronethane Bronodorm Bronorone 200 Stratory (Swattlender Chlorobertzene	ND ND ND ND ND	1.0 3.0 10 10 1.0 1.0 2.0 1.0									
Bronolichioronethane Bronolichioronethane Brononitowa Brononitowa Carbon (Satashishi Carbon (Satashishi Chirobenane Chirobethane Chirobethane		1.0 3.0 10 10 1.0 1.0 2.0									
Brandichloonethane Brandom Brandom 2024anni 7 Carlon (Salatika Chlorobenzen Chlorobenze Chlorobenze Chlorobenze		1.0 3.0 10 1.0 1.0 2.0 1.0 3.0									
Bernofickorrehane Bennolism Bernomiktwick Bernomiktwick Carbon Feasibili Carbon Heaustrikis Ohrobetzene Chorothane 2 Chiorothane 2 Chiorothane 2 Chiorothane		1.0 5.0 10 1.0 1.0 2.0 1.0 3.0 1.0									
Broncholsonerkane Bronzenstein Stoteano Salako Caron Salako Caron Salako Caron Salako Caronetare Chorothera Chorothera Chorothera Chorothera Chorothera Chorothera Chorothera Saliters: Vale exceeds Maximum	ND ND ND ND ND ND ND ND ND	1.0 5.0 10 1.0 1.0 2.0 1.0 3.0 1.0					red Method Bla	nk			
Bernodiktorentene Bennslove Bennswerke Bennswerke Bennswerke Bennswerke Die State Bennswerke Carlow fallen Carlow fallen Chronothane Chron	ND ND ND ND ND ND ND ND ND ND	1.0 3.0 10 1.0 1.0 2.0 1.0 3.0 1.0 3.0		E Value a	bove quan	itation range	e	nk			
Bronchokorenhune Bronchom Bronchom Ganon Shallba Carlon Hausshikk- Chronebrane Chronebrane 2-Chronebrane 2-Chronebrane 2-Chronebrane Walkeres: Walkeres: Bashibers:	ND ND ND ND ND ND ND ND ND ND ND	1.0 3.0 10 1.0 1.0 2.0 1.0 3.0 1.0 3.0		E Value a J Analyte	bove quan detected b	itation range elow quantit		nk	Page 4 o	ŕ 10	
Bernodiktorentene Bennslove Bennswerke Bennswerke Bennswerke Bennswerke Die State Bennswerke Carlow fallen Carlow fallen Chronothane Chron	ND ND ND ND ND ND ND ND ND ND ND ND ND N	1.0 3.0 10 1.0 1.0 2.0 1.0 3.0 1.0 3.0		E Value a J Analyte P Sample	bove quan	itation range clow quantit Range	e	nk	Page 4 o	r ² 10	

QC SUMMARY REPORT	
Hall Environmental Analysis Laboratory, Inc.	

Sample ID rb	Samp	Type: M	BLK	Te	atCode. E	PA Method	82668: VOL	ATILES		
Client ID: PBW	Batc	hID: R	1247		RunNo: 4	1247				
Prep Date:	Analysis I	Date: 3	3/2017		SeqNo	292354	Units: µg/L			
Analyte	Healt	POL	SPK value	SPE Ret Va	WREC	LOM.mit	HighLimit	%RPD	RPDUmit	Qual
-Cnlorotoiuene	ND	1.0								
is-1,2-DCE	ND	1.0								
is-1,3-Dichloropropene	ND	1.0								
2-Dibromo-3-chloropropane	ND	2.0								
Noromochloromethane	ND	1.0								
Normarweth www.	ND	1.0								
2-Octambergane	ND	1.0								
3-Dichlorobenzene	ND	1.0								
4-Dichlorobenzene	ND	1.0								
Nchlorodifuoromethane	ND	1.0								
,1-Dichloroethane	ND	1.0								
1-Dichloroethene	ND	1.0								
2-Dichloropropane	ND	1.0								
3-Dichloropropane	ND	1.0								
2-Dichloroprocane	ND	2.0								
.1-Dichloropropria	ND.	1.0								
NORTH CONTRACT	ND	1.0								
Havanna	NO	40								
sopropylbenzene	ND	1.0								
-isopropy/toluene	ND	1.0								
Methyl-2-pentanone	ND	10								
Aethylene Chloride	ND	3.0								
-Buty/benzene	ND	3.0								
Propylbenzene	ND	1.0								
ec-BulyRemore	ND	1.0								
itymete	ND	1.0								
erl-Butylbenzene	ND	1.0								
1,1,2-Tetrachloroethane	ND	1.0								
1.2.2-Tetrachloroethane	ND	2.0								
etrachloroethene (PCE)	ND	1.0								
ans-1,2-DCE	ND	1.0								
rans-1.3-Dichloropropene	ND	1.0								
2.3-Trichlorobenzene	ND	1.0								
2.4-Trichlorobenzene	ND	1.0								
1.1-Trichlonethane	ND	1.0								
1.2-Trichloroemane	ND	1.0								
richloroethene (TCE)	ND	1.0								
richlanduorometrune	ND	1.0								
,2,5-Trichloropropane	ND	2.0								
Qualifiers:		-								
* Value exceeds Maximu	m Contaminant	Level.		B Analy	e detected	in the associa	nied Method Bla	nk		
D Sample Diluted Due to I	Matrix					titation rang				
1) Holding times for prepa		is expend	e4			beliw quanti			Page 5.0	f10
	wrting Limit									

WOA PROUSA

28-Mar-17

Υ.	Tump	lépi	l Nes	Ea :	Linge	

RPD outside of range due to dilution or matrix
 W Sample container temperature is out of limit as specified

354	QC SUMMAR Hall Environmer				or Inc					WOR.	1703354
37	-	-	-		ory, Inc.	_			_		28-Mar-17
1	Client. Soude Project: 3B-1 (r, Miller and CS	Associa	ales							
	Gample ID ka-56649	Gerrapi	Type: LS	15	Ter	Code: El	A Matina	82700 PAH			
	Divint ID: LCSW	Balc	n (D: 30	NAS.		anNa: 4	1482				
	Prep Date: 3/13/2017	Analysis (Date: 3	/17/2017		SeqNo: 1	300978	Units: µg/L			
4 K	Analyte	Result			SPK Ref Val			Honumi	46RPD	RPOLINIE	Qual
	Nathtniew	18	PQL 0.50		SPIC Het Val	BREC 91.9	LowLimit 37.4	120-	36690	RPULINE	COURP
	1.Metty/ruchthalane	19	0.50			94.5	30.3	121			
	2-Methylnaphthalene	18	0.50		0	88.3	37.8	122			
	Acamaphiliyleme	19	0.50		0	95.4	37	124			
1.2	Acenaphthene	20	0.50		0	98.5	35.6	123			
	Fluorene	19	0.50		0	93.9	35.2	122			
	Phenanthrane	18	0.50	20.00	0	89.2	38.8	122			
	Anthracene	18	0.50		0	91.3	37.5	125			
	Flattendiane	18	0.50	20.00	0	90.5	37.4	131			
	Pyrana	10	0.50	20.00	0	60.5	.27.5	140			
	Benz(a)anthracene	18	0.50	20.00	0	88.1	25.4	141			
	Chrysene	17	0.50	20.00	0	83.5	33.6	155			
	Benzo(b)fluoranthene	18	0.50	20.00	0	89.4	39	153			
	Benzo(k)@uoranthene	19	0.50		0	97.3	38	154			
	Benzo(a)pyrone	18	0.50		0	07.0	36.6	153			
	Dibenz(a,h)anthracene	19	0.50		0	94.0	39.7	155			
	Genzola, n. operatione	1.0	0,50			80.9	39,6	154			
1	indexe(1,2,3-ct)pyrmm	+#	0.68			02.0	19.1	161			
	Sur: N-hexadecane	84		87.60		95.8	15	176			
	Sun: Benzo(e)pyrene	18	_	20.00	1.00	89.1	15	198	_		
	Sample ID (cmd-10649	Samp	Type: LO	CSD	Tee	Code E	A Method	8270C: PAH			
110	Cimitito LC3802	Beid	II 1D. 30	2049		Autor d	1412				
11	Prep Date 3/13/2017	Analysia (Date: 3	/17/2017	1	SecNo: 1	000979	Unite ug/L			
11	Analyte	Result	POL	SPK value	SPK Ref Val	KREC	LowLimit	HighLink	ALRPD	RPOLimit	Qual
	Natifitation	17	0.50		0	64.8	37.4	120	8.04	20	-
	1-Methylicapidiates ar	10	0.50			60.3	39.3	121	4,55	20.0	
1.1	V Mathyloghbalene	-17	0.50			84.7	37,8	122	4.16	23.8	
1.1	Alamac/Wrytems	17	0.50			85.0	37	124	11.5	78.6	
111	Abim44/8	18	0.60		- 0	89,8	95.0	123	10,1	27	
11.1	Flapreno	17	0.50			83,7	35,2	122	11.5	25.7	
	Phenerillemin	10	0.50			87.5	38.6	122	1.97	20	
	Anthranosa	19	0.50			BAR	37.5	125	5.28	21.2	
				20,00	0	84.5	37.4	131	6.86		
	Fluorantheme	17	0.50							218	
	Pyrene	17	0.50	20.00	σ	86.6	27.5	140	4.40	31.1	
				20.00	0 0						

Qualifier	10	

 Qualifier:

 Value scenario Alizonum Loniational Lowi.

 Sample Diland Dac to Movie

 Halding Linna for preparation or swelyns excended

 Difference of the Reporting Linnis

 R RD onlide accepted recovery limits

 8 % Recovery ontside of range due to dilation or matrix.

 Π
 Analyte detected in the sussained Method Mines

 E
 Value adverse countralision energi

 1
 Analyte detecting three granitations (mines)

 P
 Sample pet Not. In Kanger

 21.
 Reporting Detection Limit

 W
 Sample container temperature is out of limit as specified

Page 7 of 10

Qualifier: * Value excess Maximum Constantional Laws. D Sample Dubted Data to Matrix *

QC SUMMARY REPORT

Client: Project: Gample (D rb

Client ID: PBW Prep Date:

Analyte Vrig chloride Xvenst, Total Sum 1-2-botkloroethans-of-Sum 2-botkloroethane Sum Chloroethane Sum Chloroethane

Hall Environmental Analysis Laboratory, Inc.

Souder, Miller and Associates 3B-1 CS

SamuTyyo MBLK Balah ID, R41247

Analysis Date: 3/8/2017

 Analyse detected in the sametared Mehnel Hinds
 E Vehic observ constitution image
 Analyse detected below quantitation limits
 Analyse detected below quantitation limits
 P. Sample PH 1961 to Kanger
 R. Reporting Detection Limit
 W. Sample container temperature is out of limit as specified Page 6 of 10

TuniCusin EPA Matinal 82008. YOLATILES

SeqNo: 1292354 Units: µg/L

 ND
 L0
 SPK value
 SPK ref Val
 KRef Val
 Qual
 Q

RunNo: 41247

lient: Souler	, Miller and Associates	ory, Inc.	28-hfar-17	Client: Souder, Mi	iller and Associates		
reject: 3B-1 C				Project: 3B-1 CS			
Sample ID Icau-20043	SameType: LGBD	TuniGaste CPA Method 82706 PAHs		Sample ID MR 30616	SumpType: MBLK TestGode: EPA Method 7479: Menway		3
Clent ID: LCSS07	Ballet IO 30640	Ronke #1462		Client (D: PBW	Runhio: 30616 Runhio: 41302		
Prep Date: 3/13/2017	Analysis Dam 3/17/2017	SeqNo 1300979 Units ug/L		Prep Date: 3/9/2017 /	Analysia Data: 3/9/2017 SecNo 1294145 Units mg/L		
Anniyte		SPK Ref Val %REC LowLimit MohLimit %RPD RPDLini			Result POL SPK while SPK Rol Val SREC LowLins HighLimit SRPD	RPQLINE:	Quili
errizo@(Auszanikerine	17 0.56 20.00	0 00.6 36 154 11.6 2		Méroury	ND 0.00020		_
ercolatemmi. Idenzia hien/macene	17 0.50 30.00 17 0.50 20.00	0 874 38.6 163 0.229 24. 0 86.0 39.7 155 7.65 2		Bample ID LCS-20616	SimpType LCS TestCode: EPA Method 7470: Mercury		
enzal)//jeenwine	16 0.50 20.00	0 10.4 39.6 154 1.65 2		Client ID: LOSW	Bind: 10: 30616 Runko: 41302		
dero(1,2,3-stilgymmi	17 0.50 20.00	0 MAS 1911 153 6.16 2		Prep Date: 3.9/2817	Analysis Data: 3/9/2017 SepNo. 1284146 Units: mg/L		
Surr N-hexadecore	72. 87,60	01.6 15 176 0		1.000		Second Sec.	0.0
Burn Bioneo(c)gynane	16 29,00	00.2 15 198 0	2		Result PQL SPK value EPK Ref Val %REG LowLinit HighLinit %RPD 0.0050 0.00020 0.005000 0 100 80 120	RPDLimit	Qual
Sample 157 mb-30640	SampType: MBLK	TenCode: EPA Method 82700: PAHa		Semple D LCSD-30916	SamoType: LCSD TestCode: EPA Mathod 7470; Mercury		-
Climit D PRW	Bakes (D) \$8640	Bunkin 41402		Client ID: LCSS02	Balch ID: 30516 RunNo: 41302		
Prep Date: 3/13/2017	Analysis Date 3/17/2017	Segreo: 1300880 Units: ug/L		Constant of the Second Se			
Visibile	Renall POL SPK where	SPK Rel Val MREC LowLinit HighLinit MRPD RPDLin	Qual	and the second s	Anadynin Dato: 3/8/2017 SingHu. 1294158 Units. mg/L		
aphthaline	ND 0.50	"D.P. upi Aul aver. rounnum unberum			Rosuit PGL OPK velue SPK Ref Vel %REG LowLimit HighLimit %RPD		Qual
Methyleuphithalene	ND 0.50			Mercury	0.0049 0.00020 0.005000 0 98.0 80 120 1.94	20	
Methylruphthaiare	ND 0.50						
enaphtrylene	ND 0.50						
anaya thana	ND 0.50 ND 0.50						
enanthrene	ND 0.50						
duracene	ND 0.50						
oranthene	ND 0.50						
rene	ND 0.50						
mz(a)anthracene	ND 0.50		1.12				
nymine .	ND 0,60						
nak)koathea nakikoathea	ND 0.50 ND 0.50						
nzola)pyrene	ND 0.50						
benz(a,h)anthracene	ND 0.50						
rizo(g./i.(perylene	ND 0.50						
dens(1,2,5-al)pyrone	ND 0.50						
Surr: N-hexadecane	81 87.60						
Sur Benno(c)oyeres	10 20.00	89.5 15 198					
			2.5				
			بالا				
ualifiers:				Qualifiers:			
 Value encreda Maximum 		B Analyte detected in the successed Method Blank		 Value exceeds Maximum Cor 			
D Saugle Diluied Due to N		E Value above quantitation range	5 M 4	D Sample Diluted Due to Matri H Holding times for preparation		Base	610
H Holding times for prepar	tabion or analysis exercided.	i Analyst detected below quantitation finits Page Sample pil Not in lange	8 of 10	ND Not Detected at the Reporting		Page 9 o	110
D New Constraint of the Weyl							

Cilent. Project:	Souder, 3B-1 CS	Miller and	Associa	_	ory, Inc.						78 Mar-17
	MD-30610		Type: MB					Total Recove			
Client ID:	PBW		in (D. 30			RunNic: 4		Tutal Nessare	ather rates		
								1000			
Prep Date:	3/9/2017	Analysis	Dotter 3/	10/2017	1	lingNo: 1	294285	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic		ND	0.020								
Barlum		ND	0.020								
Cadmian		ND	0.0020								
		ND	0.0080								
Lead Selenium		ND ND	0.0050								
Silver		ND	0.0050								
	T.C. COL				_	_	_				_
	LC3-20610		Type LC					Total Recove	TEDI# MED	and.	
Client ID:	LCSW	Bais	30 201	610		binNit. A	11365				
Prep Date:	3/9/2017	Analysis	Date: 3/	10/2017	1	SeqNo: 1	294286	Units: mg/L			
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antanic		0.50	0,020	0,5000	.0	99,4	60	120	-		
Barlen		0.50	0.020	0.5000	n	00.3	âñ	620			
Cadmikini		0.49	0.0020	0.5000	n	97.8	80	120			
Chromium		0.49	0.0060	0.5000	0	98.3	80	120			
Lead		0.49	0.0050	0.5000	0	97.8	80	120			
Section .		0.49	0.050	0.5000	0	97.8	80	120			
owc.		0.099	0,0000	0,1000	Ú.	97.0	-00	120 -			
1	LCSD-30610		TYPE: LC					Total Recover	able Beta	810	
Clines ID			sh (D. 90		F	RunNo: 4	1365				
Prep Date:	3/9/2017	Analysis	Date: 3/	10/2017	1	SeqNo: 1	294287	Units: mg/L			
Analyte		Result	POL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ankenie		0.10	0.020	0.5000	0	100	80	120	1.08	20	
Earlan .		6.50	0.020	0,5000	0	90,0	80	120	0,604	-20	
Cabrium		0.49	0,0020	0.5000	ņ	97.6	60	120	0,141	20	
Children and		0.49	0.0050	0.5000	0	87.9	BO	120	0.457	20	
Selenium		0.47	0.050	0.5000	0	94.7	80 80	120	3.16	20	
Silver		0.098	0.0000	0.1000	0	97.7	80	120	0.123	20	
		5.000	0.0000	0.1000	U	51.1	00	120	0.120	20	

1,210	- D,4	19 D.0080	0.5000	0	87.9	80	120	0.457	20	
Land	0.	0.0050	0.5000	0	97.7	80	120	0.115	20	
Seler	ium 0.	17 0.050	0.5000	0	94.7	80	120	3.16	20	1 N N
Silver	0.0	0.0050	0.1000	0	97.7	80	120	0.123	20	SI
										31
Qual	ifiers:									1
1.1	Value excends Maximum Centami	um Levil.		Analys	e detected in th	e assected.	Matinal Tile	nk		18
	Sample Trifuted Diar to Matrix			Value	above quantita	ition range .				
H	Holding tirats for preparation or an	alysis estendor	1	Anniyt	e detected beli	w quantitatio	a innia		Page 10 of 10	
ND	Not Descued at the Reporting Limit			Sample	pH Not in Ra	nge			rige to be to	
R	RPD outside accepted recovery lim	its		L Report	ing Detection	Limit				
s	% Recovery outside of range due to	dilution or ma	trix 1		container ten		ot of limit as	specified		
						1000				

	Work Order Humber	1703054		Ropino	. 1.
Received by/date:	03/08/17		-		
ogged By: Lindsay Mangin	3/8/2017 7:35:00 AM		HAR		
Completed By Lindsay Mangin	3/8/2017 9-32-53 AM		ALITO		
teviewed By:	5/08/17		11.4.16		
hain of Custody	10011			adainaite a pa	
1. Guslody seals intact on semple bottle	0	Yes L	No 🗔	Not Present	
2, is Ghain of Gustony completer		T05 M	No 🗔	No. Pressent	
. How was the sample delivered?		Counter			
.og In					
4. Was an attempt made to cool the sam	nples?	Ves M	No 🗔		
5. Were all samples recaived at a temps	railuse of 3-0 ⁴ C in 8 0°C:	Vec 52	нь ГП	886 TT	
8. Sample(s) in proper container(s)?		Yes M	No 🗆		
7. Sufficient sample volume for indicated	teekes?	Yes 12	NO 🗔		
3 Are earricles (except VOA and ONG) ;	properly preserved?	Yes 2	No LU		
9. Was preservative added to bottles?		Yes 🗌	No 12	NA D	
0.VOA visits have zero headspace?		Vas M	No C	No VOA Viala	
1. Were any semple containers received	tbroken?	Ves C	No 😿	and the second	
				8 of preserved bottles checked	
2 Does peperwork match boilte tabeta? (Note discrepancies on chain of custo)		Yes 🗹	No 🗆	for pH:	oç >12 unlese noinc
3. Are metrices correctly identified on Ch		Yes M	No 🖂	Adjusted?	No
4, la il clear what printyoos were resuces		Yes 🗟	No 🗔		as
 Were all holding times altre to be meth (If no, notify customer for authorization 		Yes 🗹	H0 []	Checked by:	140
pecial Handling (If applicable)					
	which these product?	Vm D	No CT	MA T	

17. Additional remarks:

Sec. 2

-

Page 1 of 1

Production Constrained of the second of th	HALL ENVIRONMENTAL HALL ENVIRONMENTAL ANALYSIS LABORATORY www.reinenui.com 40015596075 For Schwartory Tal Encodents For Schwartory	рунк (влю (653) даниа: ной (иранай ок 3) ной (иранай ок 3) ной (иранай ок 3) ной оказа (сво часо) вытх - ирае + тын (сва онд) од 5 од 5	X X X X X X X X X X X X X X X X X X X X	Der The Remarker Lie Full List Report Telp
	100	La La La La La La La La La La La La La L		Auliste
		aldavion) aldavion) jujest ID		S. F.
	A Paring A	10.2 Package 30.2 Package Stander: Correlation NCLAP EDC (Typo) have Trme	a7H 55'6 41-	HT INC

		2017
		060517MK
District.J (675 N. French Dr., Hobbis, MM 88240	State of New Mexico	Form C-138
Distant II III S. First St., Actesta, NM 88310	Energy Minerals and Natural Resources	Revensi Augur 1, 1011
1000 Rive Domain Romal, Aurora, Mild 37410 Distributive	Oil Conservation Division 1220 South St. Francis Dr.	Series Wate Management Facility Operator and Occupator shall realistain and make this descentration available for Division inspection.
1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe, NM 87505	
REQUEST	FOR APPROVAL TO ACCEPTS	OLID WASTE
 Generator Name and Address: Western Refining Southwest, Inc. 111 County Road 4990 		
Bloomfield, NM 87413 2. Originating Site:		
Pipeline Maintenance Yard 5754 Highway 53 Farmington, NM 87401		1
 Location of Material (Street Addre Same as originating Site 	as, City, State or ULSTR):	
 Source and Description of Waste: Hydro test water used to test frac tanks. 		1.2
Patimated Volume 500 bbbs Kno	wn Volume (to be entered by the operator at the en	d of the haul) 430 y bble
PRINT & SIGN NAME certify that according to the Resource Co	particitive of starbolition affort for	ng Southwest, Inc. do herdry סאורארא אראר אראר invironmental Protection Agency's July 1988)
	generated from all and gas exploration and produc mly: Waste Acceptance Frequency	
characteristics established in RCBA	raste which is non-hazardous that does not exceed it regulations. 40 CPR 261,21-261,24, or living hazar- ng documentation is attached to demonstrate the ab-	lous waste as defined in 40 CFR, part 261,
and all he of the mental		
	ardous Waste Analysis 🔲 Process Knowledge	Other (Provide description in Ben 1)
II MSDS information S RCRA Has	WASTE TESTING CERTIFICATION STATE	
MSDS information. RCRA Haz GENERATOR 19,15.36.15 N/A representative samples of the off field was lays been found to centurym to the specific		MENT FOR LANDFAILMS do hereby certify that sted for chloride content and that the samples. Section 15 of 19.15.36 MMAC. The results
☐ MSDS information	WASTE TESTING CERTIFICATION STATES essentative for N/A are have been subjected to the pairs film rem and re is requirements applicable to tandfarma parsuant to	MENT FOR LANDFAILMS do hereby certify that sted for chloride content and that the samples. Section 15 of 19.15.36 MMAC. The results
MSDS Information ≥ RCRA Haz GENERATOR 19,15,36,15 NA (epo representative amples of the of liable way been found to construct to the specif of the representative samples are stacked 10,15,36 MAC. Transporter: To be determined Juford	WASTE TESTING CERTIFICATION STATE stantistive fire N/A the have been subjected to the paine ritime tear and the the requirements placelade to Linaffarms paraunal to to demonstrate the above-described wante conform	MENT FOR LANDFAILMS do hereby certify that sted for chloride content and that the samples. Section 15 of 19.15.36 MMAC. The results
■ MSDE Information ■ RCRA Haz GENERATOR 19.15.36.15 N/A Propention N/A Propention N/A Propention N/A Propention N/A Propention N/A Propention Propentio	WASTE TESTING CERTIFICATION STATE stantistive fire N/A the have been subjected to the paine ritime tear and the the requirements placelade to Linaffarms paraunal to to demonstrate the above-described wante conform	VENT FOR LANDFALMS do hereby certify that meet for coloride content and that the camplea. Section 15 of 19,153 (MAGC. The results to the requirements of Section 15 of
■ MSDE Information ■ RCRA Haz GENERATOR 19.15.36.15 N/A Propention N/A Propention N/A Propention N/A Propention N/A Propention N/A Propention Propentio	WASTE TESTING CLEATIFICATION STATE stantistive fir N/A the have been subjected to the paine filter team and the the requirements septileable (is unalfarms parsunal to b to demonstrate the above-described wante contern ment Facility uses, LLC Permit #: UICI-005 (Class 1 No	VENT FOR LANDFALMS do hereby certify that meet for coloride content and that the camplea. Section 15 of 19,153 (MAGC. The results to the requirements of Section 15 of
MSD2 Information ≥ RCRA Haz GENERATOR 19.15.36.15 NA representative numples of the out field was law been found to conform to the spacef of the representative numples of the out field was law been found to conform to the spacef of the representative numples of the out field was out for the representative numples of the representative numples of the representative numples of the representative numples of the representative numples of the representative numples of the representative numples of the representative numples of the representative numples of the representative numples of the representative numples of the representative numples of the representation of t	WASTE TESTING CLEATIFICATION STATE stantistive fir N/A the have been subjected to the paine filter team and the the requirements septileable (is unalfarms parsunal to b to demonstrate the above-described wante contern ment Facility uses, LLC Permit #: UICI-005 (Class 1 No	VENT FOR LANDFALMS: do breeby early that steed for chlorade consistent and land the complete. Section 15 of 19.15.36 MMAC. The results to the requirements of Section 15 of no-Hazardons Well)
MSD2 triformation ≥ R.C.R.A Haz GENERATOR 19.15.36.15 NA Yeppe Toportemuitry anamples of the of the local toportemuitry anamples of the of the representative samples are success Transporter: To be determined Mane and Facility Permit # Agun Ma Adhress of Facility. 34.3 CR 33.0, Sam J Method of Treatment and of Disposal:	WASTE TESTING CLEATIFICATION STATES seamative first N/A in hysto kern subjected to the pairs first rear sub at its regularements applicable to tavallarms parsum to to demonstrate the above described wante conform meent Facility ssss, LLC Permit #: UICI-005 (Class 1 No hum County, Aztec, NM 87410 tion Treating Plant Landfarm 1	VENT FOR LANDFALMS: do breeby early that steed for chlorade consistent and land the complete. Section 15 of 19.15.36 MMAC. The results to the requirements of Section 15 of no-Hazardons Well)
MSD2 Information ≥ RCRA Haz GENERATOR 19.15.36.15 NA representative numples of the out field was law been found to conform to the spacef of the representative numples of the out field was law been found to conform to the spacef of the representative numples of the out field was out for the representative numples of the representative numples of the representative numples of the representative numples of the representative numples of the representative numples of the representative numples of the representative numples of the representative numples of the representative numples of the representative numples of the representative numples of the representation of t	WASTE TESTING CLEATIFICATION STATES seamative for N/A is may been subjected to the passer filter test and its is regulatements applicable to indenfarms parsuant to to domeanizate the above described write conform ment Facility sss; LLC Permit #: UICI-005 (Class 1 No hum County, Aatec, NM 87410 tion	VENT FOR LANDFALMS:

Da J.



Hall Genorenemetal Analoris Laboratory 1981 Hawkins NE Allinguargue, NM 8710n FAL: 205-443-3975 FAV: 305-545-416 Website www.sulfanstromental.com

Kelly Rohmson Western Refining Southwest, Inc. #50 CR 4990 Bloomfield, NM 87413 TEL: (505) 632-4135 FAX (505) 632-3911

RE: Pipeline Frac Tank Hydro Water

Dear Kelly Robinson:

June 20, 2017

Hall Environmental Analysis Laboratory received 1 sample(s) on $\delta/7/2017$ 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 <u>www.halentervironmentalia.com</u> 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 Clastody for information regarding the sample checklist and/or the Chain of Clastody for information regarding the sample checklist and/or the Chain of Clastody for information regarding the sample checklist and/or the Chain of Clastody for information regarding the 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 asumary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Tah measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as p1 and residual chorine 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 #NM0190

Sincerely,

and

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

OrderNo : 1706322

Hall En	viro	umental Analys	is Labori	itory, Inc.				Analytical Report Lab Onder 1786322 Date Reported #29/201	n	
Project:	Pipelin	m Refining Southwest te Prie Tunk Hydro Wa 22-001	ller	AQUEOUS	Client Sample ID: Hydro) oft Water Collection Date: 6/5/2017 4:00:00 PM Received Date: 6/7/2017 7:30:00 AM					
Analyses	_		Result	PQI, Qual	Un	its	DF	Date Aualyzed	Batch	
EPA METH	100 7	TO: MERGURY						Analyst	MED	
Mercury			ND:	U-000000	in	sh.	1	0/14/2017 1:22.58 PM	342399	
EPA 60108	B: TOT	AL RECOVERABLE N	TALS					Analyst	MED	
Arsenic			ND	0.020	m	10	1	6/13/2017 10:47:49 AM		
Barium			0.092	0.020	m		1	6/13/2017 10:47:49 AM		
Cadmium			ND	0.0020	m		1	6/13/2017 10:47:49 AM		
Caroinian	100		ND	0.0000	m			E/13/2017 10:47:49 AM		
Land			ND	0.0060	ing			6/13/2017 10:47:40 AM		
Salarium			ND	0.050	ing			6/13/2017 10:47:49 AM		
Silver			ND	0.0050		an.	1	IV13/2017 10:47-19 AM		
	top a	BOD VOLATILES	(en.	1. Second		-	1	Analyst		
Benzene	100 0	TOD. TOPATILEO	ND			2	1	6/7/2017 7:07:00 PM	R43337	
Tokulow				1.0	pg		1			
Ethylbono			ND	1.0	PB		1	6/7/2017 7:07:00 PM	R43337	
		ther (MTBE)	ND	1.0	P9		1	6/7/2017 7:07:00 PM	R43337	
12.4 Trim			ND.	1.0	49			E/7/2017 7:07:00 PM	R430377	
1.3.5-Trim			HD.		1 HQ		12	6/7/2017 7:07:00 PM	R43333	
1.2-Dichia			ND	1.0	ьġ			6/7/2017 7:07:00 PM	R4333	
1.2-040401			ND	1.0	49			E/7/2017 7:07:00 PM	R43037	
Napringia		e (c//2)	/HD	20	HB HB	A	1	6/7/2017 7:07:00 PM	RATORIT	
I-Meifiyin			ND.					6/7/2017 7:07:00 PM	RANDO	
2-Methylin			ND	4.0	H9			6/7/2017 7:07:00 PM	R43337	
Acetone	age to the	DI NO	ND	10	- 19		1	6/7/2017 7:07:00 PM	R43337	
Bromoben	7000		ND	1.0	pg pg		1	6/7/2017 7:07:00 PM	R43337	
Bromodici		finance.	8.7	1.0	99			6/7/2017 7:07:00 PM	R43337	
Bromoform		C. Larie	ND	1.0	P9		1	6/7/2017 7:07:00 PM	R43337	
Biomone			NO	10	10			6/7/2017 7:07:00 PM	R40007	
2-Butanoo			ND.	10	HO		12	B/7/2017 7:07:00 PM	R43337	
Cartion de			HD	10	- 10		1	6/7/2017 7:07:00 PM	R43337	
Carbon Te		-	ND	1.0	- PO		1	6/7/2017 7:07:00 PM	R4333	
Chloroben			ND	1.0	19		1	6/7/2017 7:07:00 PM	R43337	
Chloroeth			ND	2.0	29		1	6/7/2017 7:07:00 PM	R43337	
Chloroform			25	1.0	P9		1	6/7/2017 7:07:00 PM	R43337	
Chloromet			ND	3.0	P9		1	6/7/2017 7:07:00 PM	R43337	
2-Chloroto			ND	1.0	P2		1	6/7/2017 7:07:00 PM	R43337	
4-Chloroto			ND	1.0	P9		1	6/7/2017 7:07:00 PM	R43337	
dia-1.2-DC			ND	1.0	NO			6/7/2017 7:07:00 PM	R43337	
00-1,1400		opene	ND	1.0	89			B//2017 7:07:00 PM	HARED	
		oregropana	NO	20	Pa			6/7/2017 7:07:00 PM	R43337	
						_	_	reservation information	_	
Qualifiers:		Value exceeds Maximum (d.				he associated Method Blank		
	D	Sample Diluted Due to Ma		5 A 11 4	E		ove quantit			
	н	Holding times for preparati		creded	1			ow quantitation limits Pag	clof9	
	ND	Not Detected at the Report			P		H Not In R	ange		
	POL	Practical Quantitative Limit					g Detection			
	6	is Mesowery opunde of range	to diat to dilition	er emint	W.	Sample c	continuer the	reservationed as call of filmit do by	ACCUTHON .	

		ie Frao Tank Hydro Wa 22-001		AQUEOUS			2017 1:00:00 PM 2017 7:30:00 AM	
Analyses			Result	PQL Qual	Units	DF	Date Analyzed	Batch
EPA METH	IOD 6	2008. VOLATILES			-		Anal	ysl RAA
Dibromoch	hlorome	thane	2.4	1.0	Lou	1	6/7/2017 7:07:00 PM	A R433
Dibromore			No	1.0	UaL		6/7/2017 7:07:00 PM	
1,2-Dichlor			ND	1.0	NO.	T	6/7/2017 7:07:00 PM	
1,3-Dichlo	robenz	808	ND	1.0	ug/L	1	6/7/2017 7:07:00 PM	
1,4-Dictilo	robienz	anui -	NO	1.0	UQ3		6/7/2017 7:07:00 PM	
Dichlorodi	lucion	ultrano	ND	1.0	HOL		6/7/2017 7:07:00 PM	A R435
1,1-Dichlor	roethan	10	ND	1.0	ugit	1	6/7/2017 7:07:00 PM	A R433
1/1-Dichio	romthing		7.405	1.0	Han		1/7/2017 7:07:00 PM	A 17433
1,2-Dichio	roompl	www.	1473	1.0	- ug/L	3	E/7/3017 7.07 00 FA	FH433
1,3-Dichio	ropropi	NIN .	MD	1.0	UD/L	1	6/7/2017 7.07:00 PM	A R433
2,2-Dichlo	ropropa	ane .	ND	2.0	µgr.	1	B/7/2017 7:07:00 PM	A R433
1,1-Dichlor	roprope	ine	ND	1.0	ug/L	1	6/7/2017 7:07:00 PM	A R433
Hexachion	obutadi	ene	ND	1.0	µg/L	1	6/7/2017 7:07:00 PM	A R433
2 Hexanor	90		ND	10	HOL	1	6/7/2017 7:07:00 PM	4 R400
Isopropylb	enzene		ND	1.0	µg/L	1	6/7/2017 7:07:00 PM	1 R433
4-Isopropy	Itoluen	e	ND	1.0	µg/L	1	6/7/2017 7:07:00 PM	I R433
4-Methyl-2	-pentar	sone	ND	10	µg/L	1	6/7/2017 7:07:00 PM	I R433
Methylene		ie	ND	3.0	µg/L	1	6/7/2017 7:07:00 PM	1 R433
n-Butylben			ND	3.0	µg/L	1	6/7/2017 7:07:00 PM	A R433
n-Propylbe			ND	1.0	ug/L	1	6/7/2017 7:07:00 PM	I R433
sec-Butylb	enzene	1 m	ND	1.0	µg/L	1	6/7/2017 7:07:00 PM	
Styrene			ND	1.0	hB/r	1	6/7/2017 7:07:00 PM	
tert-Butylb			ND	1.0	µg/L	1	6/7/2017 7:07:00 PM	
1.1,1,2-Te			ND	1,0	1-04	A	5/7/2017 7:07:00 PM	
1.1.2.2-Tel			ND	2.0	PB/L	1	6/7/2017 7:07:00 PM	
Tetrachion		e (PCE)	ND	1.0	µg/L	1	6/7/2017 7:07:00 PM	
trans-1,2-0			ND	1.0	hð/r	1	6/7/2017 7:07:00 PM	
trans-1,3-0			ND	1.0	ug/L	1	6/7/2017 7:07:00 PM	
1,2,3-Trich			ND	1.0	PB/L	1	6/7/2017 7:07:00 PM	
1,2,4-Trich			ND	1.0	HØ/L	1	6/7/2017 7:07:00 PM	
1,1,1-Trich			ND	1.0	ug/L	1	6/7/2017 7:07:00 PM	
1,1,2-Trich			ND	1.0	µg/L	1	6/7/2017 7:07:00 PM	
Trichloroft			ND	1.0	PBr.	1	6/7/2017 7:07:00 Ph	
			ND	1.0	pg/L	1	6/7/2017 7:07:00 PM	
1,2,3-Trich Vinyl chlor		pane	ND	2.0	h0/L	1	6/7/2017 7:07:00 PM 6/7/2017 7:07:00 PM	
					P0/1			
Xylence, T		proetnane-d4	ND 95.4	1.5	Mg/L %Rec	1	6/7/2017 7:07:00 PM	
		luorobenzene	104	70-130	%Rec	1	6/7/2017 7:07:00 PM 6/7/2017 7:07:00 PM	
		e QC Summary report a						
Qualifieri:	17	Villeo exceeds Maximum C					he associated Method B	lank
	D	Sample Diluted Due to Mat				se above quantita		
	- 0	Holding times for preparation					re quantilacian limita	Page 2 of
	90		Dy Longs			plà pH Noi In Ra		
	PQL					orting Detection I		
	s	% Recovery outside of rang	e que to dilution o	er maserix	W Sam	pie container ten	sperature is out of limit	as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

9/430, 1/200322

34-Jun-17

hin

Analytical Report Lah Order 1796322 Date Reported 4/20/2017

Client Sample ID: Hydro Test Water

Hali Er	nvironmental Analysi	tory, Inc.	Analytical Report Lab Order 1796322 Daw Reportsh 6/20/2017				
CLIENT: Project: Lab ID:	Western Refining Southwort, J Pipeline Free Tank Hydro Wat 1706322-001	-	AQUEOUS	Collection	Date: 6/3	dro Test Water 2017 1:00:00 PM 2017 7:30:00 AM	
Analyses		Result	PQL Qual	Units	DF	Date Analyzed	Ratch
EPA MET	HOD \$2608: VOLATILES					Analysi	RAA
Sur T	Sitesen du covernitione	103	78-190	7.Rec		6/7/2017 7:07:00 PM	R43337
Surr: T	Toluene-d8	100	70-130	%Rec	1	6/7/2017 7:07:00 PM	R4333

Client/D2 BaschOC Buil Prop Date: Analysis Analyse Result Encore 20 Environment 2	PGL 1.0.10.1 1.0.1	7/2017 SPR value 20.00 20.0		Runfo: 4 SeqNo: 1 103 100 101 101 101 101 101 101 101 10	364431	Linis: pg/L HighLmit 130 130 130 130 130 130 130 130 130 140 140 140 140 130 130 140 140 130 130 140 140 140 140 140 140 140 140 140 14	5.RPD	RPOLimit
Abunyte Heault Barcanie 211 Darcanie 210 Enlydorstanie 200 Lij, Jack 201 Bornobecreen 200 Bornobecreen 201 Dehondham 16 Zuhande 16 Zuhande 16 Zuhande 16 Zuhande 16 Zuhande 12 Chandhame 11 Chandhame 12 Chandhame 12 Chandhame 12 Chandhame <	PGL 1.0.10.1 1.0.1	SPR value 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 40.00 20	5PK Ref Val 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NREC 103 100 101 96.1 97.2 97.4 95.3 85.7 87.9 66.4 99.6 98.6 102 95.2 98.6 102 95.2 78.2 114 102 102 102	LowLiver 70 70 70 70 70 70 70 70 70 70 70 70 70	HighLunit 130 130 130 130 130 130 130 130	5.820	RPOLIME
bergere 21 Tollaine 20 Erlyborazine 20 Erlyborazine 20 12.4-Trinntyberome 20 12.5-Trinntyberome 20 12.5-Trinntyberome 19 12.5-Trinntyberome 19 12.5-Trinntyberome 19 12.5-Trinntyberome 19 12.5-Trinntyberome 19 12.5-Trinntyberome 10 Bornodobizone 20 Bornodobizone 20 Bornodobizone 20 Bornodobizone 10 Chistorethere 20 Bornodobizone 16 Chistorethere 20 Chistorethere 21 Chistorethere 21 Chistorethere 21 Chistorethere 21 Chistorethere 21 Chistorethere 12 Schistorie 19 2.5/Schistoreportent 19 1.3/Schistoreportent 19 1.3/Schistoreportent	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	220.00 20.00 40.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 40.00 20.00 40.00 40.00 20.00		103 100 101 98.5 97.2 97.4 95.3 85.7 87.9 86.4 99.6 98.6 102 95.2 78.2 114 402 102 102 102	70 70 70 70 70 70 70 82 2 70 70 80 80 80 80 80 80 80 70 70 80 80 80 80 80 80 80 80 80 80 80 80 80	130 130 130 130 130 130 130 130 130 130	5.820	RPOLIME
Tolsne 20 Erfordunte 20 Enfordunte 20 Enfordunte 20 12.4 Finnethyberanne 10 1.3.5 Finnethyberanne 19 1.3.5 Finnethyberanne 18 2.Mennydnathere 13 Andringsthulsne 13 Bornoberanne 20 Bornoberanne 20 Bornoberanne 20 Bornoberanne 20 Bornoberanne 20 Bornoberanne 20 Colorderme 20 Colorderme 20 Colorderme 21 Colorderme 21 Colorderme 19 2.0 Forothune 19 2.1 Sochlerophenet 19 1.3 Sochlerophenet 19 1.3 Sochlerophenet	10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 40.00 20.00 40.00 20.00 40.00 20.000		100 101 98.5 97.2 95.3 85.7 87.9 66.4 99.6 98.6 102 98.5 98.6 102 95.2 78.2 78.2 114 102 102 102	70 70 70 70 70 82.2 70 70 80 60 60 70 70 80 80 80 80 70 70 70 80 80	130 130 130 130 130 130 130 130 130 130		
Etylsectors 20 Lij J-Torothybercare 19 Lij J-Torothybercare 19 Lij J-Torothybercare 19 Lij J-Torothybercare 19 Martin 10 Darotherare 20 Bondercare 20 Bondercare 20 Bondercare 20 Bondercare 20 Darotherare 20 Charothallithin 41 Caton dialithin 41 Charothallithin 21 Olionuthone 19 Charothallithin 21 Olionuthone 19 Schlamet 19 Schlamet 19 Schlamet 19 Schlamet-instructure 19 Schlamet-instructure 19 Schlamet-instructure 19 Schlamet-instructure </td <td>1.0 1.0 1.0 1.0 1.0 2.0 4.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1</td> <td>20.00 40.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 40.00 40.00 40.00 40.00 40.00 40.00 20.000</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>101 98.5 97.2 97.4 95.3 85.7 87.9 66.4 98.6 102 98.6 102 98.2 78.2 78.2 114 102 102 102</td> <td>70 70 70 62.2 70 70 80 60 60 70 70 60 60 60 60 70 70 60 60 60 60 60 60 60 60 60 60 70 70 60 60 60 70 70 70 70 70 70 70 70 70 70 70 70 70</td> <td>130 130 130 130 130 130 130 130 130 130</td> <td></td> <td></td>	1.0 1.0 1.0 1.0 1.0 2.0 4.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	20.00 40.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 40.00 40.00 40.00 40.00 40.00 40.00 20.000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	101 98.5 97.2 97.4 95.3 85.7 87.9 66.4 98.6 102 98.6 102 98.2 78.2 78.2 114 102 102 102	70 70 70 62.2 70 70 80 60 60 70 70 60 60 60 60 70 70 60 60 60 60 60 60 60 60 60 60 70 70 60 60 60 70 70 70 70 70 70 70 70 70 70 70 70 70	130 130 130 130 130 130 130 130 130 130		
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Cetton Industrie 41 Carbon Tränslänkti 200 Ohlondhank 201 Ohlondhank 201 Ohlondhank 211 Ohlondhank 191 4-Ohlondhane 191 4-Ohlondhane 191 4-Ohlondhane 191 4-Ohlondhane 191 4-Data Statume 191 12-Ohlondhane-s-mitotoodelle 111 Downcolloopentemine 1161	10 1.0 2.0 1.0 3.0 1.0	40.00 20.00 20.00 20.00 20.00 20.00	0 0 0	102 102 102 107	60 70 70 60	140 130 130 140		
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Clastodrame 20 Obrouthame 21 Distance 18 Distancembrenic 16 Z-Ohoroblume 19 4-Ohoroblume 19 4-Distancembrenic 21 Distancembrenic 19 12-Distancembrenic 19 12-Distancembrenic 19 12-Distances-artisotrophene 19 12-Distances-artisotrophene 16	1.0 2.0 1.0 5.0 1.0	20.00 20.00 20.00 20.00	0 0	102 107	70 60	130 140		
Otorothane 21 Okindrém 21 Okindrém 16 2/Ohrotokune 19 4/Ohrotokune 19 4/Ohrotokune 19 1/0/Ohrotokune 19 <tr< td=""><td>2.0 1.0 3.0 1.0</td><td>20.00 20.00 20.00</td><td>0 0</td><td>107</td><td>60</td><td>140</td><td></td><td></td></tr<>	2.0 1.0 3.0 1.0	20.00 20.00 20.00	0 0	107	60	140		
Chlorofom 21 Chlorofohum 16 Zchlorofohum 19 4-Chlorofohum 19 4-Dirofohum 19 Li-J.20CE 21 dis1-J.20CE 18 Diromochorophine 19 L2-Obtrono-activotophine 18 Diromochorophine 16	1.0 3.0 1.0	20.00 20.00	0					
Chloromothone 10 2/Chloroblame 19 du-12/DCE 21 du-12/DCE 21 du-12/DCE 21 Dubrings/Protopopene 19 Dubrings/Protopopene 19 Dubrings/Protopopene 111 Dubrings/Protopopene 111	3.0 1.0	20.00				130		
2-Chlorobluene 19 4-Chlorobluene 19 dis1_2-DCE 21 dis1_3-Dichloropropene 19 1_2-Ubtrime-3-chloropropene 18 Disromochlorgmetrates 16	1.0			01.0	60	140		
4-Chlorobluene 19 dis-1,2-DCE 21 dis-1,3-Dickloropopene 19 L2-Uhrmie-chloropopene 19 Disromochloromenene 18			0	96.9	70	130		
dis-1,2-DCE 21 dis-1,3-Dichloropropene 19 1,2-Obrume-3-chloropropene 18 Deromochloromenene 10	1.0	20.00	0	97.5	70	130		
ds-1,3-Dichloropropene 19 1,2-Dith/me-3-chloropropane 18 Devonce/Vorgmeinane 18	1.0	20.00	0	106	70	130		
12-Obrome-3-chioropropane 18 Devoncolvorgmenane 18	1.0	20.00	0	93.3	70	130		
Devonovivoremenane 18	2.0		0	93.3	70	130		
	1.0	20.00	0	p1.7	70	130		
	1.0	20.00	0	104	70	130		
1.2-Dichlorobenzene 19	1.0	20.00	0	96.6	70	130		
1.3-Dichlorobenzene 20	1.0	20.00	0	98.9	70	130		
14-Dichasterweit 20	1.0	20.00	a	98.9	67.2	141		
Distored fluoren utiling 24	1.0	20,00	u v	121	60	140		
1,1-Dichloroethane 20	1.0	20.00	0	99.7	52.6			
1.1-Dichlinselfume 20	1.0					157		
		20,00	0	103	70	130		
12-Denilopolitikine 2D	1.0	30.00	0	102	B3 7	138		
1,3-Dichkroproperty 19	1.0	20,00	0	95.3	70	130		
2.2-Okoloroproteano 20	2,0	20.00	U	101	70	130		

Refe	r to th	e QC Summary report and sample login check	list for flags	ged QC data and preservation information.
illers;		Value exceeds Maximum Contaminant Level.	в	Analyse desected in the associated Method Black

- Value concerned y Maximum communitation errors.
 D Sample Dihtred Date to Matrix
 Hindling instants for programming errors
 instants for programming er nonlysis associated.
 //D: Articol Quantitative Limit
 S % Recovery outside of range due to dilution or matrix
- B Analyse descents in the associated Method Blank
 E Value above quantitation maps
 Analyse threated below quantitation limits
 Page 3 of 9
 Bomple p11 No. h hange
 R. Reporting Detection Limit
 W Sample container temperature is out of limit as specified

- Value above quantitation range
 Value above quantitation range
 Anaryte detected below quantitation lumits
 Sample pill Not in Kange
 R. Reporting Detection Limit
 W Sample container temperature is out of limit as specified
- Sample Decess instantial Containing Level.
 Sample Dilated Due to Marix
 Molding times for preparation or analysis escusified
 Not Deceed at the Reporting Limit
 Not Deceed at the Reporting Limit
 S % Recovery outside of range due to dilution or matrix

Page 4 of 9

QC SUMMARY REPORT WON: 1706322 Hall Environmental Analysis Laboratory, Inc. 30-346-17

Western Refining Southwest, Inc. Pipeline Frac Tank Hydro Water Client. Project:

Sampla (12 100 ng ka	SempT	ype: Lt	:04	Te	(Code E	PA Helloud	SZOOD: YOL	ATILES		
Clem ID. BatchOC	Batch		13337	1	RUNNO 4	3337				
Prep Date:	Analysis D	ate: 6	7/2017		SeqNo: 1	364431	Units: µg/L			
Analyse	Result	POL	SPK value	SPK Raf Val	MAEC	LowLimit	HighLinit	S/RPD	RPDLimb	Qual
,1-Dichioropropene	20	1.0	20.00	0	102	70	130			
lexachlorobutadiene	17	1.0	20.00	0	82.6	70	130			
-Hexanone	35	10	40.00	0	86.7	60	140			
sopropyloenzene	20	1.0	20.00	0	101	70	130			
l-Isopropyltoluene	20	1.0	20.00	0	100	70	130			
-Methyl-2-pentanone	37	10	40.00	0	93.6	60	140			
lethylene Chloride	21	3.0	20.00	0	104	70	130			
Butylbenzene	19	3.0	20.00	0	93.2	70	130			
-Philipberzenia	19	1.0	20.00	0	96.7	70	\$30			
ec-Butytbenzene	10	1.0	20.00	ő	95.1	76	130			
Styrene	20	1.0	20.00	0	101	70	130			
ert-Butylbenzene	19	1.0	20.00	0	97.3	70	130			
1.1.2-Tetrachloroethane	19	1.0	20.00	0	97.0	70	130			
1,2,2-Tetrachloroethane	19	2.0	20.00	0	96.5	65.9	133			
etrachloroethene (PCE)	21	1.0	20.00	0	104	70	130			
ans-1,2-DCE	20	1.0	20.00	0	101	70	130			
rans-1.3-Dichloropropene	18	1.0	20.00	0	88.1	70	130			
2.3-Trichloroberzene	18	1.0	20.00	0	88.0	70	130			
2.4-Trichlorobenzene	17	1.0	20.00	0	87.2	70	130			
1.1.Trichioroethane	-21	1.0	20.00	0	103	70	130			
12-Trichmellium	19	1.0	20.00	0	95.4	78	130			
richloroethene (TCE)	20	1.0	20.00	0	102	70	130			
richlorofluoromethane	21	1.0	20.00	0	102	70	130			
2.3-Trichloropropane	19	2.0	20.00	0	95.6	69.7	129			
Inyl chloride	20	1.0	20.00	0	101	70	130			
slenes, Total	60	1.5	60.00	0	100	70	130			
Surr. 1,2-Dichloroethane-d4	9.7	1.0	10.00		97.3	70	130			
Sur. 4-Browill with berched	10		10.00		104	70	130			
Sun DévotioAutoremané	10		10,00		104	70	130			
Surr. Toluene-d8	10		10.00			70				
oun. rouene-ob	10		10.00		104	70	130			
Sample ID RB	SampT	ype: MI	BLIC	Ter	ICooli, E	PA Method	SZEDE: YOL	ATILES		
Client ID: PBW	Batch	ID: RA	13337	100	RunNo: 4	3337				
Prep Date:	Analysis D	ete: p	7/2017		SegNo: 1	364456	Units: jug/L			
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LOWLINK	HighLimit	%RPD	RPDLimit	Quai
Benzene	ND	1.0								
loluene	ND	1.0								
Bhylbenzene	ND	1.0								
Qualifiers:										
* Value exceeds Maximum	Cleansand I	avd.		B Analyt	districted i	n dia manifi	and Mithaul Bla	- Ar		
1) Nample Diluted Date to N		1.0								
H Holding times for preparation or analysis encoded				 E. Value above quantitation enois: J. Analytic detected below quantitation limits 					Page 5	019 ···
ND Not Detected at the Reporting Limit				P Sample pri Nos in Range						
PQL Practical Quanitative Lir				RL Reporting Detection Limit						
S % Receivery outside of m							is out of limit as	1.000		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Sample IT RB	Samp	Type: MB	LK	1	estCode: E	PA Method	2268B: VOL	ATILES	-	
Client ID: PBW	Batc	hID: R4	337		RunNo:	43337				
Prep Date:	Analysia I				SegNo:		Units: pg/L			
Analyte	Result	POL	SPK value	SPK Ref V	al %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
lethyl tert-butyl ether (MTBE)	ND	1.0				_				
2,4-Trimethylbenzene	ND	1.0								
3,5-Trimethylbenzene	ND	1.0								
2-Dichloroethane (EDC)	ND	1.0								
2-Dibromoethane (EDB)	ND	1.0								
aphthalarva	ND	2.0								
McCylsphildere	ND	4.0								
Methylnaphthalene	ND	4.0								
zetone	ND	10								
romobenzene	ND	1.0								
romodichioromethane	ND	1.0								
romoform	ND	1.0								
omomethane	ND	3.0								
Sutanone	ND	10								
arbon disulfide	ND	10								
arbon Tetrachioride	ND	1.0								
niorobenzene	ND	1.0								
ioroethane	ND	2.0								
loroform	ND	1.0								
loromethane	ND	3.0								
thlorotoluene	ND	1.0								
Chlorotoluene	ND	1.0								
-1.2-DCE	ND	1.0								
1,3-Dichioropopene	NE	1.0								
2-Dibromo-3-chloropropane	ND	2.0								
bromochloromethane	ND	1.0								
bromomethane	ND	1.0								
2-Dichlorobenzene	ND	1.0								
3-Dichlorobenzene	ND	1.0								
4-Dichlorobenzene	ND	1.0								
ichlorodifluoromethane	ND	1.0								
1-Dichloroethane	ND	1.0								
1-Dichloroethene	ND	1.0								
P-Dichloropropane	ND	1.0								
3-Dichloropropane	ND	1.0								
2-Dichloropropane	ND	2.0								
1-Dichloropropene	ND	1.0								
exachlorobutadiene	ND	1.0								
Hexanone	ND	10								
healiflers:										
* Value exceeds Maximu	n Contaminant	Level.		B Anal	vie detected	in the associat	ted Method Bla	nk		
D Sample Diluted Due to						titation range		200		
IT Halding times for prepa		ententei				telow quantit			Page 6	of 0
ND Not Detected at the Rep				1.1.1.2.4	de pH Not la				Y alle D	
QL Practical Quanitative Li					rting Detect					
S % Recovery outside of a		diam and the second	and an and an and an and an and an and an an and an an an an an an an an an an an an an				is out of limit a			

Wire 198311

20-Jan-17

- ND
 Not Detected at the Reporting Limit

 PQL
 Practical Quanitative Limit

 S
 % Recovery outside of range due to dilution or matrix

QC SUMMAF Hall Environme				ory, Inc.	-			-	WOw.	1706323 20-Jun-17
	ern Refining 3 ine Frac Tank									
Serople ID RD	Samp	Types Ma	BLK	Tes	CANIN E	PA Methind	AZCON VOL	ATRES	_	
Client ID: PBW	Batch	1D. R4	3337		Burble A	3337				
Prep Date:	Analysis D	Date: 6	7/2017	5	SegNo: 1	364456	Units: µg/L			
Analyle	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								
Meiligkene Clikulde	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzane	ND	1.0								
Styrene	ND	1.0								
web-Buit/beeszene	ND	1.0								
1.1.1.3-Teirachbrooihane	AD.	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Terrachioroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dicht/speserie	9023	1.0								
9.2.3-Tinchilotoinerdante	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroeihane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Inchiorofluoromethane	ND	1.0								
1.2.3-Trichloropropane	ND	2.0								
Vinyi tsiloride	CI/I	1.0								
Xylenes, Total	ND	1.5								
Sur: 1,2-Dichloroethane-d4	9.8		10.00		98.3	70	130			
Sun: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	11		10.00		107	70	130			
Surr: Toluene-d8	10		10.00		99.7	70	130			

10.0	MMARY				ory, Inc.					WIN-	1706323 78-709-13
Client: Project:	Wessian F Pipeline F										
Semple 10 Direct ID Prep Date:	MID-02209 PDW 6/14/2017		Fyser, Mill Fritt, 32	763	1.3	niCialar I RiunNa SecNo:	43487	Vate: Mercu			
Analyte Mercury		Result	PQL 0.00020		SPK Ref Val		LowLimit	HighLimit	%RPD	RPOLimit	Qual
Client ID	LCS-32269 LCSW 6/14/2017		POL	268 14/2017 SPK value	3	Rammar. BugMu.	5145/ 1369693 LowLimit	7478: Mercu Unita: mg/L HighLimit 120		RPDLimit	Qual
	1706322-001BMS Hydro Test Wathr 6/14/2017	Samp	Type: Mi h ID: 32	S 2409	Ter		EPA Method 43487	7470: Mercu Units: mg/L	·		
Analyte Mercury		Result 0.0049	PQL 0.00020	SPK value 0.005000	SPK Ref Val 0	%REC 98.2		HighLimit 125	%RPD	RPDUmt	QUBI
Sample ID Client ID: Prep Date: Analyte	1706322-0010MSC Hydro Test Water 6/14/2017		Date: 6	269		RunNo: SeqNo:	43487	7470: Nercas Units: mg/L HighLimit	÷	RPDLimit	Qual
Mercury			0.00020	0.005000	SPK Ref Val	%REC 92.8		HighLimit 125	5.71	PPDLimit 20	crual

- Qualifier:
 •
 Value exceeds Maximum Contaminant Level.

 D
 Samole Diluted Due to Matrix
 1
 Holding times for preparation or analysis exceeded

 ND
 Non Doassonia with Reporting Limm
 PQC
 Prescied Quantitive 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:
 r sample pit Not in Range
 RL Reporting Detection Limit:
 W Sample comine temperature is out of limit as specified

Page 7 of 9

- Fi Analyse denoted in the neurotated Method Blank
 E Value advece quantitation range
 J Analyse denoted before quantitation limits
 P Sample pit Not in Range
 RL Reporting Detection Lamit
 W Sample container temperature is out of limit as specified Page 8 of 9

- Qualifiers:
 •
 Value stands Maximum Genzaminus Level.

 D
 Samole Dohard Dari is Mariv
 •
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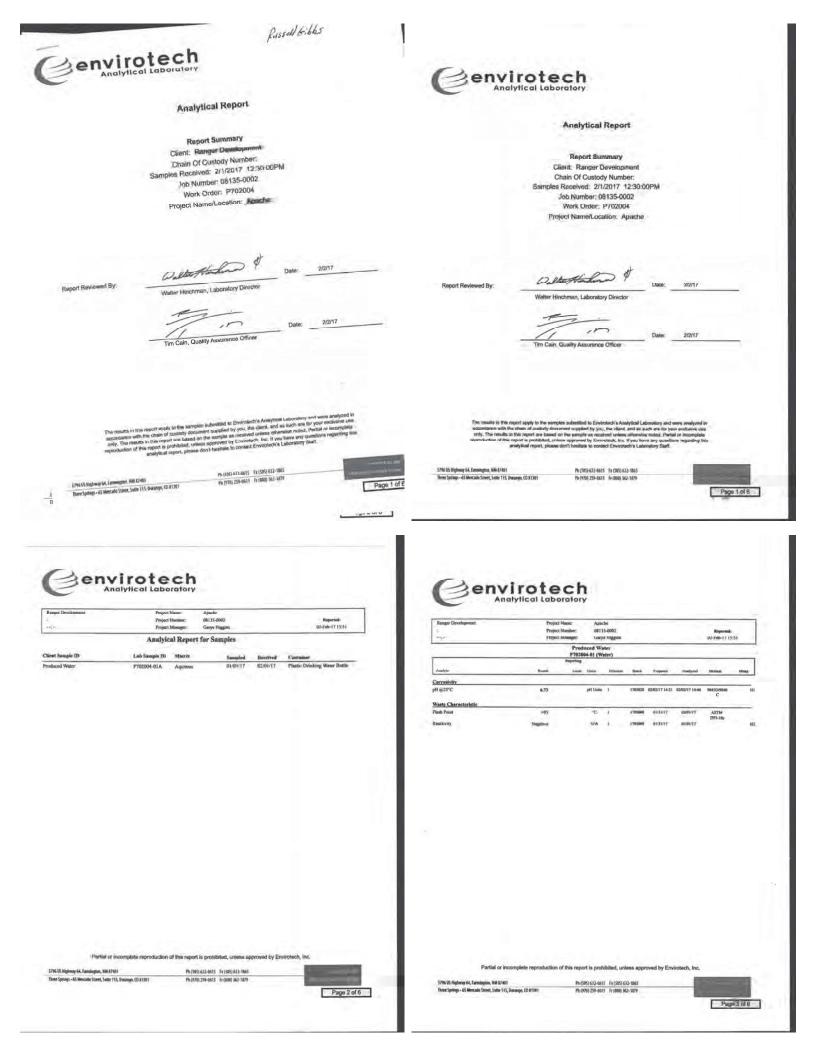
 II Halaing times for preparation on analysis extended.
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	Refining Southwest, Inc. Frac Tank Hydro Water			b-Jon-17	AHALYSIS LABORATORY	788, 303-343-3873 FAN 385-343- Bodan	Lesa	
ample ID MB-32235	SampType: MBLK	TosiGodo: EPA 6010B: Total R	Recoverable Metalo		Client Name: Western Refining Southw	Work Order Number: 1706322	Roptive.	
Tep Dele: 6/13/2017	Batch ID: 32235 Analysis Date: 6/13/2017	RunNo: 43448 SeqNo: 1368063 Units			Received By: Anne Thorne Completed By: Bophis Campuzano	6/7/2017 7:30:00 AM 6/7/2017 0:10:16 AM	am the	
nalyte senic rium	ND 0.020 ND 0.020	/al %REC LowLimit High	Limit %RPD RPDLimit Q	ual	Reviewed By. No	6/7/17		
dmium romium ad	ND 0.0020 ND 0.0060 ND 0.0050				Chain of Custody 1. Guolody seals start on sample bottles?	700	No 🗍 Noi Present 🗹	
lenium var	ND 0.050				2. Is Chain of Custody complete? 3. How was the sample delivered?	Yes M Courier	No 🗌 Not Present 🗌	
ample ID LCS-32235 Javril ID: LCSW	SempType: LC5 Batch ID: 32235	TesiGode: EPA 6010B: Total R Rommo: 41448	Recoverable Mate's		4. Wes an attempt made to cool the sample	w? Yes 🗹		
rep Date: 6/12/2017	Analysis Date: 6/13/2017 Result PQL SPK value SPK Ref.	SeqNo: 1368064 Units:	: mg/L Limit SLRPD RPDLimit G		5. Were all samples received at a temperatu		No 🗆 NA 🗆	
enc ium	0.53 0.020 0.5000 0 0.51 0.020 0.5000 0	0 106 80 0 102 80	120 120		6. Sample(s) is proper container(a)?	Yes M	No 🗀	
ámium romium id	0.51 0.0020 0.5000 0 0.51 0.0060 0.5000 0 0.51 0.0050 0.5000 0	102 80	120 120 120		7. Sutflictent sample volume for indicated tas 8, Are samples (except VOA and ONG) prop		No 🗆	
enium er	0.51 0.050 0.5000 0 0.10 0.0050 0.1000 0	102 80	120 120		9. Was preservative added to bottles?	Yes 🗋	No 🗹 NA 🗆	
					10. VOA viats have zero headspace? 11. Were any sample containers received bro	Yes 🗹 Yes 🗌	No No VOA Vials	1
					12 Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes. M		or >12 units s noted)
					13. Are matches correctly identified on Chain 14. Is it clear what analyses were regressed?	Yes 😥	No C Argusted?	10
					15, Were all fielding times able to be mel7 (if no, notify customer for authorization.)	Yes 🕑	NO Checked by.	Olto.
					Special Handling (If applicable) 16. Wea client notified of all discrepancies will	In this older? Yes 🗆	No 🗆 NA 🗹	
					Person Notified:	Date	Phone E Fax In Person	T
					Regarding: Client Instructions:			
alifiers:					17. Additional remarks:			
Value exceeds Maximum (Sample Diluted Due to Ma	rix E Val	alyte detected in the associated Met lue above quantitation range				Scul tribuct Simil Mr. Simil Onto	Signed By	
Holding times for perparati D Not Detected at the Report D. Practical Quanitative Limit	ng Limit P San	alyze detected befow quantization du npic pH Noi In Range porting Detection Limit	Page 9 of 9		Page 1 of 1	antenne fanis in 1 - 5,		
5 % Recovery outside of rang								
ORY	(M to Y) arriteo⊟ teA Manual a many			2	SL, Amerika, NM 1921-6 actor Rosé, Aziec, MM 87410 Francis Dr., Santa Pe, NM 87305	State of New Mexico ergy Minerals and Natural Res Oil Conservation Division 1220 South St. Francis D Santa Fe, NM 87305	ources *Surfacy Wate Marea and Generator the documentation available	Revised August 1, 2011
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.iselencerone.nki.gm cs.Nf - Altogenole. Nki.87109 65.975 - Exp. Scotler.fto 64.975 - Exp. Scotler.fto	(May a development) acts (May a development) for (May a development) for (May a development) for (May a development) (May a de		wither Areas fine thanks.	P I I Generative State S	BL ANDIA SMITTEIN BL ANDIA SMITTEIN ANDIA AND AND AND AND AND AND AND AND AND AN	ergy Minerals and Natural Res Oil Conservation Division 1220 South St. Francis Division Santa Fe, NM 87305 APPROVAL TO ACCE 2014 SHOP CUST State or ULSTR):	ources Sordary Waste Maren and Generator dia occumentation available CPT SOLID WASTE	Form C-138 Revised Angust I, 2011 rement Facility: Operation I maintain and make third in Division interestion
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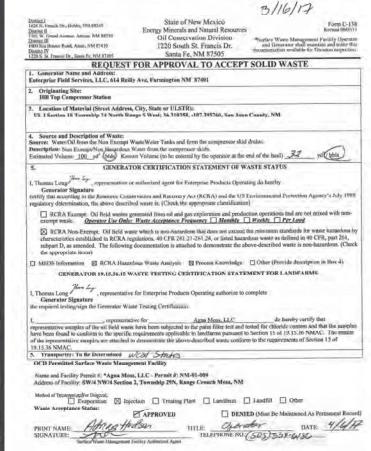


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2017

C.S.	Andress States Party Control P	ASW Lay MARXWELLS (100, 100, 100, 100, 100, 100, 100, 100	1000 100 100 100 100 100 100 100 100 10	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		÷		Le 3/10 1737 BOTATER & LEO Full Listitude Empound Description man man man man man list the function of the second
Extendere Rush	HIDISCI W	T'S Manager	Benpler: Kuudy On los 3765	Sample Tempenture:	Container Pressivative Tipe and # Type	the row Uphious		Record by Alark
	Arter ing has sheep 87401	L Contraction			Sample Request ID	to have listen !!		Ly well
A Mars	city a	Auble	d Ofter		Watrix	·		NE
Actress	Horn	- Bree	AF	EDD (Type)	Time	2.0		HELL I
Cient	Home #	email or Faid CAVOC Paide	Accreditation D NELAF	D EDO	Date			Sel-16



Client Name SMA-FARM Work Order Number	r 1003077		Hispilikin T
toround by the AT 13.02 Mc			
aggint By Lindiary Manglin 3/2/2016 7:00.02 AM		High	
completed By Lindson Mangin 3/2/2015 / 58:01 AM		autor	
		0.4.4	
hain of Custody			
1 Custody sears intact on sample hotber?	Vm	NC	Not Present M
is Chain of Custody comovie?	Yes W	No	Not President
How was the sample dolwood?	Couner		
	1.11		
.og In		1.00	10
 Wax an allempt made to cool the samples? 	Yas 🕈	140	Haft -
5. Were all samples received at a temperature of >0" C to 5.0"C	Yes 🗹	No 🗔	NA 🗔
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗌	
/ Stuffickers sampte volume for reducated an Us (*	Yes 🖌	No 1	
5. Are complex (owned VOA and OHG) property preserved?	V 494	No	
9 Was preservative acced to boll es?	Ves	tes 📌	M
10. VOA visis have zero headapace?		No E	No WOA Viels
1. Were any sample containers received tooken?	Yes.	Nu 😿	
			# of preserved potiles chucked
12. Does paperwork match bottle sitiets? (Note discrepancies on chain of custody)	Yes of	No	fol pH: (<2 or >12 unless obtain
Are matrices correctly identified on Chiles of Custody?	Ves 🖌	140	Advated?
1d, to it close what analyses were requested?	Yes 🐓	No	
 Ware all fixeding times able to be mail? (if no, worky customer for autocritetion.) 	You V	No	Classified by
pec/al Handling (If applicable) 16 Was clent notified of all discrepancies with Urs order?	Yes -	544	NA M
			0.0
Person Notified: Date By Wison. Via-		Phone Tax	in Person
Rigading	citati	Counter Labor	at ment
Client Instructions:			
17. Additional mmarks			
18. Cooler No. Terry *C Candition Seni Intuct Seni Ho	Seal Date	Signed By	
1 14 Good Not Present			6

QC SUMMARY REPORT

WOR. 1603077 Hall Environmental Analysis Laboratory, Inc. 17-Mar-16

Client: Project: Souder, Miller and Associates Lindreth CS

 Qualifiers:
 Value records Missimum Comminant Level.

 Value records Missimum Comminant Level.
 Sample Ushnot Use to Mistrie

 Holding times for preparation or analysis exceeded
 NID

 Nat Demosal at the Reporting Limit
 R. RPD ouesde acceptor exceeding limits

 S
 % Recovery outside of range due to dilution or matrix

Sample ID vsb deli	SampT	ype: Mi	BLK	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Etient ID: PEW	Batch ID: R32659		F	tunNo: 3	2659					
Prep Date:	Analysis I	hale. 3	8/2010	2	seqtio: 9	99266	Links, upl.			
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qua
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Sem 1,2-Dichlomethane-d4	10.		10.00		103	70	130			
Sur: 4-Biomaliupoliestene	11		10.00		106	70	130			
Surr: Dibromofluoromethane	11		10.00		112	70	130			
Surr: Toluene-d8	11		10.00		110	70	130			

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

1603077

17-Mar-16

WOM

Tlient: Project:	Souder, Miller and Lindreth CS	A SHOCIDIUS						
Sample (D visb de	ell Sampl	YON MOLK	Tesi	Code: EPA Method	102606: VOL	ATILES		
Client ID PBW	Bate	h ID. 832659	R	unNo: 32659				
Prep Date:		Ama: 3/8/2018	ś	692660 : 099368	Unite Hal			
						%RPD	RPOLIMA	Quil
Pinalyte	Result		SPK Hef val	%REC LowLimit	Pignumit	251090	PO-LILIMA	Laure
-Chlorotoluene is-1.2-DCE	ND ND	1.0						
		1.0						
is-1,3-Dichloropropene		2.0						
2-Dibromo-3-chloropr ibromochloromethane		1.0						
koromocnioromeinane Noromomethane	ND	1.0						
	ND	1.0						
2-Dichlorobenzene	ND	1.0						
3-Dichlorobinzane	ND	1.0						
4-Dichlorobenzene		1.0						
ichlorodifluoromethan	ND ND	1.0						
,1-Dichloroethane	ND	1.0						
1-Diddona/Game	ND	1.0						
2-Okthoroprosele 5-Okthoroprosele	ND	1.0						
2-Dichloropropanie	ND	2.0						
1-Dichloropropene	ND	1.0						
Iexachlorobutadiene	ND	1.0						
Hexanone	ND	10						
coropy/benzene	ND	1.0						
-tsopropytolizene	ND	1.0						
Methyl-2-pentanone		10						
Methylene Chloride	ND	3.0						
-Butylbenzene	ND	3.0						
-Propylaenzenie	ND	1.0						
ec-Butybertam	ND	1.0						
аргануранганны Зтупеле	ND	1.0						
eri-Butyibenzene	ND	1.0						
1,1,1,2-Tetrachloroeth		1.0						
1,2.2-Tetrachioroeth		2.0						
etrachloroethene (PC		1.0						
rans-1.2-DCE	ND	1.0						
rans-1,3-Dichloropros		1.0						
2.3-Trichlorobenzerv		1.0						
2.4-Trichlorobenzen		1.0						
1,1-Trichloroethane	ND	1.0						
1,2-Trichkorenthann	ND	1.0						
Inchisroothere (TCE)		1.0						
Trichlorofucromenter		1.0						
2,3-Thchioroproperv		2.0						
Qualifiers:								_
	de Maximum Contamuna	Level.	B Analys	detected in the anioc	inted Method B	tank		
	ted Due to Matrix	- Constant		bove quantitation ran		-		

 D
 Sample Divised Due to Matrix.

 H
 Holding times for preparation or analysis espected

 ND
 Not Detected at the Reporting Limit.

 R
 RPD sounds accepted recovery limit.

 S
 % Recovery onside of range due to dilution or marity.

 E Value above quantitation range:
 Analyse detected before quantitation limits
 P Sample for Not in Kings
 K1. Reporting Detection Limit
 W Sample containes temperature is out of limit as specified Page 5 of 6

Ellings, M1 800,735,4408 + Caveir WV 888,235,0515 College Station, VX 886,590,7216 + Caluen, WV 861,666,7175 + Horens, M1 877,472,19711

Hall Environme	ntal Anal	veie I	abarat	any Inc.					49422	1403077
the say to marc	num runa	9 440 1	Jacobrat	ory, me.	-			_	_	1 Pedary Co
	er, Miller and	Associa	des							
Project: Linds	reth CS									
Sample ID 100ng los	Samp	Typic LO	:5	Tas	ICude E	PA Meibod	82108: VOL	ATILES		
Climit 12: LOSW	Benc	ND: R	2659		iunitio: 3	2659				
Prep Date	Arialysie 1	Jole 3	8/2016		SegNa 9	99258	Unite HIPL			
Analyle	Result	POL	SPK value	SPK Rel Val	KREG	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	103	70	130	-		
Toluene	21	1.0	20.00	0	105	70	130			
Chlorobonzono	22	1.0	20.00	0	108	70	130			
1,1-Dichloroethene	23	1.0	20.00	0	115	70	130			
Trichlorowhene (TCE)	50	1.0	20.00	0	100	70	130			
Sum 1,2 Dichloroeithone d4	9.7		10.00		97.0	70	130			
Sur: 4-Bromo@uorobenzene	10		10.00		104	70	130			
Sur: Dibromofluoromethane	11		10.00		114	70	\$230			
Sur: Toluene-d8	9,8		10.00		98,0	78	450	-		
Sample ID vsb dell	Samp	lýpe: M	BLR	793	(Code: E	PA Melhad	SZEOBI VOL	ATILES		
Cilerii ID: PBW	Beic	h (D) R	2659	Funitio 32650						
Prep Date:	Analysis	Jale: 3	012016		SenNo: 9	99268	Units port			
Analyte	Result	POL	SPK ust us	SPK Ref Val	SREA	Lond Inte	HighLimit	%RPD	RPDLimit	Osai
Benzene	ND	1.0	58 IS 96000		anticle.	ANNUAL PROPERTY	- And a Caller	antru	the sections.	- manual
Tokene	ND	1.0								
Eihiltentere	ND	1.0								
Millhyl Mat-bulyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
135Time hybergene	ND	1.0								
1.2 Dichloroelhane (EDC)	ND	1.0								
1.2-Dibitstoni/bane (IID0)	ND	1.0								
Maphthaliein	NO	20								
1-Melhylnaphthalene	ND	4.0								
2-Methylwap/thallwar	ND	4.0								
Acitone	ND	10								
Bromobenzene	ND	1.0								
Bromedichiorom	ND	1.0								
Bromolom	ND	1.0								
Bromomethane	ND	3.0								
2-Butanow	NO	10								
Carbon distallale	NO	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chioroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlominiuana	ND	1.0								

 Analyte dotted in the suscented Method Blink.

 Value above quantitation range

 J Analyte detected below quantitation limits

 P Sample gl Not in Range

 R Repring Detection Limit

 W Sample container temperature is out of limit as specified

Page 6 of 6

Value exceeds Maximum Contaminant Level.

- Value execute Maximum Constrainant Level.
 Sample Disined Due to Matrix
 Holding times for proportion of analysis exceeded
 ND Not Detected at the Reporting Limit
 KEP3 round accepted acceptory limits
 Sy Recovery number of range due to dilution or matrys

 11 Analyte detected in the unsociated Mathema Illandi
 11 Value above quantitation range 11 Analyse decord in the uncertainty finance
 11 Value door quantitation unsplit
 1 Analyse descend below quantitation limits
 7 Sample pl Noi In Barge
 10. Reporting Derevisus Limit
 W Sample constations temperature is not of limit as specified

Page 4 of 6

ENERGY E Tout our Popula Tout our Data

				Prepared	t by Billings. M	T Brand	ah i				
Clients	Hall Environmontal									: 03/14/16 : B160304	NF.
Project:	Not indicated					_		WORK	Juner	: D 100304	00
Analyte		Count	Result	Unite	m _	N.REC	Low i Insli	High Linds	RPD	RPDI Imil	Qual
Method:	SW7470A							Analytica	Rut	HGCV202-B	1603084
Lab ID: Mercury	KCV	âr	Alel Calibration	mg/L	ion Standard 9.00010	105	90	110		05/09	16 15:50
Melhod:	5W7470A					-		-	-	Ba	ch: 9745
Lab ID: Moreary	MB-97457	N	Whited Blank ND	mail.	45-05		Run: HGC	v202-8_160309A		03/09	16 15.50
Lab ID:	LCS-97457		aboratory Con	trol Sampl	e		Run: HOC	/202-8_160308A		03/09	16 15 57
Mercury			0.00205	mg/L	D.00010	102	80	120			
Lab ID:	B16030191-005CDIL	. s	erial Dilution					V202-B_160309A			16 16:03
Mercury			0.000138	mg/L	0.00025		0	0		10	
Lab ID:	816030191-005CMS	i s	ample Maleix	Spike			Run: HGC	V202-8_160309A		03/06	16:05
Mercury			0.00154	mg/L	0.00010	/0	75	125			8
Lab 10:	016030191-005CMS	D S	ample Matin	Spike Dup	ficale		Run: NGC	V202-8_150308A			16 10:0
Maroury			0.00152	mgit	0.00010	60	75	125	1.2	20	8

QA/QC Summary Report

Qualifiers:

RL - Analyte reporting limit. S - Spike recovery outside of adveory imits.

ND Net detected at the reporting limit.

ENERGY E InntourPeople, Tourou Gast Status, To BBE ERD 2218 + Gamin, WY BBE 866,7175 - Mains MY 877,472.0711 QA/QC Summary Report Prepared by Billings, MT Branch

and a second second	fall Environmental. Iol Indicated									03/14/18 B1603040	36
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLink	Qual
Method:	5W6010B			-		-			-	Bat	ch: 97382
ab ID;	B18030485-0038DIL	7 54	mail Dilution				Flue ICP20	3-8_160308A		03/08	16 13:01
Ansenic	A DIMENSION OF STREET	11.00	ND	mpA	1.7		a	u		10	
Banum			0.0549	noA	0.050		0	D		10	N
Cadmium			ND	mark	0.041		D	0		10	
Chromium			ND	mg/L	D.27		D	0		10	
Laad			ND	mpil	1.0		D.	D		10	
Selenium			ND	mg/L	2.0		0	0		10	
Silver			ND	mgL.	0.30		0	0		10	
:Di de	B10030465-0038PDS	5 7 P	st Digestion	Chatilation S	piko		Ran: ICP2	AN02031_6-24		03/08	16 13-36
Arsenic			20.5	nat	0.35	100	75	125			
Banum			19.7	mort	0.050	96	.75	123			
Cedmium			9.51	mg/L	0.0085	93	75-	125			
Claumian			19.4	mpt.	0.065		75	125			
Lead			19.4	mg/L	0.33	94	75	125			
Selenium			19.9	mg/L	0.41	\$7	75	125			
Silver			9.74	mg/L	0.061	95	75	125			
ab ID	910030405-0038MS	1.8	ample Malmi	Spike			HUN: ICP2	A900001_8-00		03/06	010 13.40
Assentic			0 701	mpl.	0.34	141	75	125			S
Barlum			5.52	mg/L.	0.050	100	75	125			
Gadmium			0.252	mgA	0.0083	101	75	125			
Chromius			0.455	ngA	0.053	-91	75	125			
Lead			0.576	mp/L	0.32	115	75	125			
Selenium			0 295	mg/L	0.20	60	75	125			2
Silver			0 320	mest	0.060	158	75	125			s
ab ID:	B16030465-003BME	0 7 8	ample Mality	Spike Duplic	ale		Ren: ICP2	AB06001_B-60		03/06	118 13 43
Arsenia			0.830	mol	0.34	165		125	17	20	8
Banum			5,41	mpil	0.050	95	76	125	21	20	
Cedmium			0.236	mpil	0.0083		75	125	8.5	20	
Ch/omium			0.474	mark	0.053	95	75	125	3.9	20	
Lead			0.680	mark	0.32	135	76	125	17	20	8
Selenium			0.325	mg/L	0.20	65	75	125	0.0	20	\$
Silver			0.282	mg/L	0.060	113	75	125	12	20	

			Q		ummary					
				Prepared I	w Billings, M	Terand	h			
fient i	Halt Environmental							Repo	rt Date: 03/14/16	
roject:	Not Indicated							Wor	Order: 8160304	06
histyle		Count	Result	Links	RL	SREC	Low Limit	High Limit	RPD RPOLImit	Qual
Method:	SW60108							Ana	ytical Run: ICP203-B	160308A
ab ID:	QCS	7 In	tial Calibratk	on Verification	n Standard				OWDE	/15 09 50
Aritenia			0.812	mg/L	0.10	101	- 90	110		
nuitat			0.774	mort	0.10	97	90	110		
Cadmium			0.400	mark	0.010	100	90	110		
Chromium			0,764	ng/L	0,050	- 95	- 90	110		
esd-			6.805	mgA.	0.056	101	90	110		
Selenívim			0.797	mort	0.10	100	90	110		
Silver			0.392	mg/L	0.010	98	90	110		
ab ID:	ICSA	7.10	writerence C	heck Sample	A				03/08	16 09:54
Aramaka			0.0133	ngh	0.10					
Batikim			+1.00E-05	mg/L	0.10					
Cadmium			49.00248	mg/L	0.010					
Churchim			0.000480	mg/L	0.050					
1000			0.0221	mal	0.050					
Salenium			0.0136	ngA	0.10					
Silver			7.00E-05	mg/L	0.010					
an ID:	IUSAB	7.16	linfleminicai C	heck Sampiel	At				03/06	16 09 57
Areantic			0.985	mail	0.10	97	60	120		
Barium			0.467	mg/L	0.10	93	80	120		
Cadmium			0.882	mart	0 010	88	80	120		
Chargenham			0.436	mail	0.050	AR.	80	120		
Lead			0.928	mol	0.050	63	60	120		
Salanium			0.902	mol	0.10	98	HD	120		
Silver			0.065	mgit	0.010	44	ap	120		
Method:	SW60108	-	_						Ba	tch: 97382
ab ID:	MB-9738Z	7 M	wihod Blank				Burt ICP2	NS-8 1603084	03/08	16 12:37
Arsenic			ND	mgA	0.02					
Barium			0.0003	mura	0.0002					
Cadmium			ND	mult	0.0004					
Chromium			ND	mari	0.003					
LEDO			0.02	mg/L	0.02					
Spienium			ND	mail	0.02					
Silver			ND	mg/L	0.003					
alt ID	LCS-97382	Th	aboratory Ga	ntroi Sample			Run ICP2	03-8_160308A	130	a/16 12:40
Amenic	ALCOND.		0.448	moñ.	0.10	90				
Banum			4.88	mg/L	0.10	89	80	120		
Cadmium			0.232	mo/L	0.010	83	80	120		
Chromium			0.440	mark.	0.050	88				
Lest	2.00		0.475	mgit	6.050	91	00	120		
Selenium			0.461	mg/L	0.10	92	50	120		
Silver			0.222	mort	0.010					

Qualifiers:

RL - Analyte reporting timit. N - The analyte concentration was not sufficiently high to decute a RPD for the sensi dilution test. NO - Not detected at the reporting limit. S - Spike recovery outside of advisory limits.

	Pre	pared by	Billings, MT E	Iranch			
Client:	Hall Environmental						t Date: 03/14/16
Project	Not Indicated						Date: 03/01/16 11:54
Lab ID:	B1B030406-001						eived: 03/03/16
Client Sample ID	1603077-001C Lindreth Non E:	tempt				1.1.2	Matrix: Aquilibule
					MCL		S
Analyses	Resul	Units	Qualifiere	RL	QCL	Method	Analysis Date / By
METALS, TOTAL							
Argenic	N	Jigm /		9.1		5W/5010/5	03/06/16 12:51 / m
Barlum	N	man.		0.5		SWEDTOB	03/08/16 12:51 / ///
Gadmisin	NO	Jam (0.01		SW60108	03/08/16 12:51 / 1/1
Chromium	NO	Ing/L		0.1		5W6010B	03/08/16 12:51 / rilli
Lead	N	mg/L		0.1		SW6010B	03/08/16 12:51 / rih
Mencality	0.07	form 1		0.002		SW/470A	03/09/18 18:29 / 40/
Salahium	03	- might		0.1		SWIGOLDIA	03/08/16 12:51 / 46
Silver	ME	mo/L		0.02		SW6010B	03/08/15 12:51 / ///

Hall Environmental Analysis	Labora	atory, Inc.		Analytical Report Lab Otder 1603077 Date Reported: 3/17/2016
CLIENT: Souder, Miller and Associates Project: Lindreft CS Lab ID: 1603077-001	Matrix:	AQUEOUS	Collection	le ID: Lindrath Non Exempt Date: 3/1/2016 11:54:00 AM Date: 3/2/2016 7:00:00 AM
Analyses	Result	PQL Qual	Units	DF Date Analyzed Batel
EPA METHOD 8260B: VOLATILES				Analyst: AG
1,1,1-Trichloroethane	ND	0.20	mg/L	200 3/8/2016 9:38:32 PM R326
1,1,2-Trichloroethane	ND	0.20	mg/L	200 3/8/2016 9:38:32 PM R326
Trichloroethene (TCE)	ND	0.20	mg/L	200 3/8/2016 9:38:32 PM R326
Trichlorofluoromelhana	ND	0.20	mg/L	200. 3/8/2016 9:38;32 PM R328
1,2,3 Trichloropropane	ND	0.40	mg/L	200 3/6/2016 9:38:32 PM R326
Vinyl chloride	ND	0.20	mg/L	200 3/8/2016 9:38:32 PM R326
Xylense, Total	0.68	0,30	mat	200 3/8/2016 9:38;32 PM R328
Surr: 1,2 Dichloroethane-d4	98.6	70-130	%Rec	200 3/6/2016 9:38:32 PM R326
Surr: 4-Bromofluorobenzene	109	70-130	%Rec	200 3/8/2016 9:38:32 PM R326
Sun Dibromoliupromethane	104	70-130	%/Rec	200 3/8/2016 0:38;32 PM R326
Sun. Tolucno-dö	715	70-100	TOTOG	200 3/0/2010 9:38:32 PM R320

MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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

- *
 Value executs Maximum Commission Level.
 B
 Annyter detected in the associated Method Blank.

 D
 Sample Dilated Dae to Matrix
 E
 Value above quantitation range

 H
 Heldoing times for programming and uppin accorded
 I
 Analyse detected here quantitation fimiter

 D
 No. Detection at the Reporting Limits
 I
 Analyse detected here quantitation fimiter

 D
 No. Detection at the Reporting Limits
 F
 Sample pH to sub the Range
 Page 3 of 5.

 R
 RPD outside accepted recovery limits
 RL
 Reporting Detection Limit
 Timit as specified

 S
 % Recovery outside of range due to dilution or matrix
 W
 Sample container temperature is out of limit as specified

Report RL - Analyte reporting limit. Definitions: OCL - Quality control limit.

Hall En	viron	mental Analysis	Laborat	tory, la	ıc.			Analytical Report Lab Order 1603077 Date Reported: 3/17/20	16
Project:	Lindret					Collectio	on Date: 3/1/	dreth Non Exempt 2016 11:54:00 AM	
Lab ID:	160307	7-001	Matrix,	AQUEOU	IS	Receiv	ed Date: 3/2/	2016 7:00:00 AM	
Analyses	_		Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 82	TOC TELP						Analysi	DAM
2-Meltrylp	Ionarti		NO	200	D	mg/L		3/16/2016 4:57:42 PM	24087
3-4 Moto	ylphenol		ND	200	D	mg/L	1	3/16/2016 4:57:42 PM	24087
Phenol			ND	200	D	mg/L	1	3/16/2016 4:57:42 PM	24087
2.4-Dinitro			CHA	2.5	D	mgAL	- T	3/16/2015 4:57:42 PM	24087
Hexachio			ND	2.8		ing/L	Ŧ	3/10/2016 4.57:42 PM	24687
Hexachio		ne	ND	2.5	D	mg/L	1	3/16/2016 4:57:42 PM	24087
Heachio			ND	3.0		mgA.	1	3/16/2016 4.57:42 PM	24087
Nitrobenz			ND	2.5	D	ingL	τ.	3/10/2016 4:57:42 PM	24687
Pentachic	prophenol		ND	100		mg/L	1	3/16/2016 4:57:42 PM	24087
Pyricline			NO	5.0		mg/L	1	3/16/2015 4.57 42 PM	24087
2,4,5-Trio			NO	400		ing/L	4	3/16/2016 4.57.42 PM	24087
2,4,6-Tric		nol	ND	2.5		mg/L	1	3/16/2016 4:57:42 PM	24087
Cresols 1			PH3	200		mp/L	1	3/16/2016 4:57:42 PM	24087
	Fluoroph	lonal	0	15-124		%Rec	1	3/16/2016 4.57:42 PM	24087
	henol-d5		0	15-118		%Rec	1	3/16/2016 4:57:42 PM	24087
		omsphensi	0	15-148		%Flac	1	3/16/2016 A 57:42 PM	24087
	litrobenza		D	40.6-124		%Rec	+	3/15/2016 4.57:42 PM	24087
	-Fluorobi		0	35.7-128		%Rec	1	3/16/2016 4:57:42 PM	24087
SWT 4	Terphen	yi-d14	0	18.8-115	SO	%Rec	1	3/16/2016 4:57:42 PM	24087
EPA MET	HOD 82	BOB: VOLATILES						Analyst	DA :
Berizeno			1.3	-0.20		mon	200	3/8/2016 9:38:32 PM	R32655
Toluene			2.1	0.20		malL	200	3/8/2016 9:38:32 PM	R32659
Emylanera	ene		NO	0.20		mg/L	2800	3/8/2019 9:38:32 PM	R32659
Methyl tes	t buly of	her (MTBE)	NO	0.26		mgA	200	3/8/2016 9:38:32 PM	R32555
1,2,4-Trin	nethylben	zene	ND	0.20		mg/L	200	3/8/2016 9:38:32 PM	R32659
1,3,5-Trie	neihylber	215790	ND	0.20		mp/L	200	3/8/2018 9:38:32 PM	R32656
1,2-Dichle	roethane	(EDC)	ND	0.20		mgil.	200	3/8/2016 9:38:32 PM	R32655
1,2-Dibror	moethane	e (EDB)	ND	0.20		mg/L	200	3/8/2016 9:38:32 PM	R32659
Naphibala	0618		NO.	0.40	6.	mg/L	200	3/M/2016 9:38:32 PM	R32659
1-Molhylin	aphihaic	ne	ND	0.66		mg/L	200	3/6/2016 9:36:32 PM	R32660
2-Methylm	aphthale	ne	ND	0.80	1	mg/L	200	3/8/2016 9:38:32 PM	R32659
Acetone			MD	20		mg/L		3/1/2016 9:38:52 PM	R32659
Bromobic			ND	0.20		mg/L	200		R32650
Bromodic		hane	ND	0.20		mg/L		3/8/2016 9:38:32 PM	R32659
Bromolon			NO	0.20		mort.	200		R32606
Bromome			ND	8.60		mg/L		3/8/2016 9:36:32 PM	R32655
2-Butanor			ND	2.0		mg/L	200		R32659
Carbon di			ND	20		TOT		5/8/2016 9;38;32 PM	R32666
- Cerbon T	esmichlor	84	NO	0.20	100	mail	200	3/6/2016 9:36:32 PM	R32659
Rei	ier so the	QC Summary report an	d sample log	in checkli	st for f	lagged Q	C data and po	eservation informatio	
Qualifiers:		Value exceeds Maximum Co	ntaminant Level	L		B Analy	yte detected in th	he associated Method Blan	k
	D	Sample Diluted Due to Matri	x			E Value	e above quantita	tion range	
		Holding turses for preparation	or analysis exco	coded		I Anal	ytic distocted belo	w quantitation limits pa	se I of 6
	NU	Not Detected at the Reporting	g Limit			P Samp	ole pil Not In Ra	inge	the x 01.0
	R	RPD outside accepted recover	ry limits			RL Repo	eting Detection	Limit	
	s	% Recovery outside of range	due to dilution of	or matrix		W Samp	ole container ten	perature is out of limit as	specified

Hall Environmental Analysis	s Labora	tóry, Ine.	2	1.0	alytical Report Onler 1686964 c Reported:	
CLIENT: Souder, Miller and Associates Project: Lundrith CS Lab ID: 1606964-001	Matrix:	C AQUEOUS	Client Sample ID: Non Exempt Tank Collection Date: 6/16/2016 10:36:00 AM Received Date: 6/17/2016 7:45:00 AM			
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	
EPA METHOD 8260B: VOLATILES					Analyst: DJF	
1,1-Dichloropropene	NU	10	007	10	6/20/2016 1:50:37 PM	
Hexachlorobstadiene	ND	10	ugi.	10	6/20/2016 1.50.37 PM	
2-Hexanona	ND	100	UQ.T.	10	6/20/2016 1:50:37 PM	
aucharola/accuration	MLX	10	LOL	10	6/20/2016 1:50:37 PM	
4. Isopropyholuerw	MO	10	NOL	10	6/20/2016 1:50:37 PM	
4-Methyl-2-pentarway	ND	100	Wart.	10	6/20/2016 1:50:37 PM	
Mumpleme Chloride	NO	30	P01.	10	19/20/2010 1:50:37 PM	
n-Butylbenzane	ND.	30	Had.	10	6/20/2016 1/50 07 PM	
n-Propylbanzone	ND.	10	HO/L	10	6/20/2016 1:50:37 PM	
sec-Butylbenzene	ND	10	Hg/L	10	6/20/2016 1:50:37 PM	
Styrene	ND	10	ua/L	10	6/20/2016 1:50:37 PM	
ion-Butylbonzenia	ND.	10	non	10	6/20/2016 1:50:37 PM	
7,1,1,2-Tatrachibromano	ND	10	001	10	6/20/2016 1:50:37 PM	
1,1,2,2 Terrachioroethane	NO	20	NOT	10	6/20/2016 1/50.37 PM	
Tetrachloroethene (PCE)	ND.	10	NO/L	10	6/20/2016 1:50:37 PM	
trans-1,2-DCE	ND	10	µg/L	10	6/20/2016 1:50:37 PM	
trans-1.3-Dichloropropene	ND	10	ua/L	10	6/20/2016 1:50:37 PM	
1,2,3-Trichloroberszene	NO	10	HO/L	10	6/20/2016 1:50:37 PM	
1,2,4-Trichlorobenzene	ND	10	Pg1	10	8020/2016 1:50:37 /94	
1,1,1-Trichlaroettinne	MD	10	Jugit.	10	6/20/2016 1/50.3/ UM	
1,1,2-Trichloroethine	ND.	10	HO/L	10	6/20/2016 1:50:37 PM	
Trichloroethene (TCE)	NU	10	µg/L	10	6/20/2016 1:50:37 PM	
Trichlorofluoromethane	ND	10	Jour	10	6/20/2016 1:50:37 PM	
1,2,3-Trichicroprojecie	ND	20	NO/L	10	6/20/2016 1:50:37 PM	
Vinyi chionde	NU	10	UBL	10	6/20/2016 1:50:37 PM	
Xylerine, Total	240	15	MgA.	10	6/20/2016 1/50:37 PM	
Sun: 1,2-Dichloroethane-d4	102	70-130	%Reo	10	6/20/2016 1:50:37 PM	
Sum 4-Bromosuoropenzene	100	70-130	WRec.	10	6/20/2016 1:50:37 PM	
Sum Ditromoliucromethane	97.0	70-130	9.Rec	10	6/20/2016 1:50:37 PM	
Surr: Toluene-cm	96,9	70-130	%Rec	10	6/20/2016 1:50:37 PM	

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

- Value exceeds Maximum Contaminant Level Sample Diluted Date to Matrix D

- Holding times for preparation or antipyin exceeded
 ND
 Na Dimension of the licenorums Limit
 RPD outside accepted recovery limits
 % Recovery outside of tange due to dilution or matrix
- B Analyse detected in the associated Method Blank E. Value above quantitation range Analyse detected below quantization timut: Page 2 of 0
 P Sample of the In Kanan
 RI. Reporting Detection limit.
 W Sample container temperature is out of timut as specificul

HALL ANALYSIS LABORATORY

March 17, 2016 Ashley Maxwell Souder, Miller and Associates 401 W. Broadway Farmington, NM 87401 TEL: (505) 325-5667 FAX

RE: Lindreth CS

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/2/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accordited 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 qualifers 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 pIT and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Hall Environmental Analysis Laboratory 4001 Hawkies KE Albonarque, VM (2100 TEL 503-343-3975 FAX: 505-345-4107 Website: www.kallerstyronmental.com

OrderNo.: 1603077

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190 Sincerely,

Brily

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

R

Hall Environmental Analy	sis Labora	tory, Inc.		Jal	alytical Report 1 Order 1600964 10 Reponed:
CLIENT: Souder, Miller and Associat	-		Tient Sample	D: Non E	xempt Tank
Project: Lindrith C8			Collection I	Date: 6/16/2	016 10:36:00 AM
Lab ID: 1606964-001	Matrix:	AQUEOUS	Received I	Date: 6/17/2	016 7.45.00 AM
Analyses	Result	PQL Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: DJP
Banzana	0.30	10	part	10	6/20/2016 1:50:37 PM
Tolugoe	510	10	Hall	10	6/20/2016 1:50:37 PM
Ethylbenzane	27	10	MOL	10	6/20/2016 1:50:37 PM
Matnyl teri-bury attact (MTISE)	NU	10	PO/L	10	6/20/2016 1:50:37 PM
1,2,4-Trimethylbenzede	18	10	Hor.	10	6/20/2016 1:50:37 PM
1.3.5-Trenethylbeauene	ND	10	Har.	10	6/20/2016 1:50:37 PM
1,2-Dichloroethater (EDIC)	ND	10	NO1	10	6/20/2016 1:50:37 PM
1,2-Dipromoethane (EDB)	ND	10	HOL.	10	6/20/2016 1:50:37 PM
Naphthalenin	ND	20	pg/L	10	6/20/2016 1:50:37 PM
1-Memyinaphtnauene	ND	40	pgit	10	6/20/2016 1:50:37 PM
2-Mathyinghthanna	ND	40	LIGH.	- 10	6/20/2016 1.50 37 PM
Acetone	520	100	Non	10	6/20/2016 1:50:37 PM
Bromocenzane	ND.	10	POR.	10	6/20/2016 1:50 37 PM
Bromodichioromemone	ND	10	Dart	10	6/20/2016 1:50:37 PM
Bromotorm	ND	10	port.	10	6/20/2016 1:50:37 PM
Bjornormilhane	ND	20	pg/L	10	6/20/2016 1:50:37 PM
2-Butanone	160	100	DOT.	10	6/20/2016 1:50 37 PM
Carbon disuilida	ND	100	HOL	10	6/20/2016 1:50:37 PM
Gwitten Teltrachienne	ND	10	pgn_	10	6/20/2016 1:50 37 PM
Ghierobenzene	ND	10	ug/L	10	6/20/2016 1:50 37 PM
Chloroethane	ND	20	NON	10	6/20/2016 1:50 37 PM
Coloratorm	NU	10	nga-	10	6/20/2016 1:50.37 PM
Charomethene	ND	30	HOL	3.0	6/20/2016 1:50:37 PM
2-Chlorotoluene	ND	10	NO/L	10	6/20/2016 1:50:37 PM
4-Chlorotoluene	ND	10	how.	10	6/20/2016 1:50 37 PM
die 1,2-DCE	ND	10	UD/L	-10	6/20/2016 1:50:37 PM
cis-1,3-Dichioropropiene	ND	10	UQL	10	6/20/2016 1:50:37 PM
1.2-Dibromo-3-chicomproprine	ND	20	hör.	10	6/20/2016 1:50 37 PM
Dibromochlaromitmine Dibromomethani	ND	10	Ud/L	10	6/20/2016 1:50 37 FW 6/20/2016 1:50:37 PM
	ND			10	
1,2-Dichlorobenzene 1,3-Dichlorobenzene	ND	10	µg/L µg/L	10	6/20/2016 1:50:37 PM 6/20/2016 1:50:37 PM
1.4-Dichlorobenzene	ND	10	vol	10	6/20/2016 1:50:37 PM
Dichorodilluoromiliano	ND	10	UQ/L	10	6/20/2016 1:50:37 PM
1.1-Dichlorosthava	ND	10	ud/L	10	6/20/2015 1:50:37 PM
1,1-Dichlorodhava	ND	10	Ug/L	10	6/20/2016 1:50:37 PM
1,2-Dichloropropane	ND	10	µg/L	10	6/20/2016 1:50:37 PM
1,3-Dichloropropane	ND	10	ug/L	10	6/20/2016 1:50:37 PM
2,2-Dichloropropane	ND	20	µg/L	10	6/20/2016 1:50:37 PM
Refer to the QC Summary repor	t and sample logi	in checklist for fl	agged OC da	ta and prese	rvation information.

nie pit bist in Eaup

RPD outside accepted recovery limits % Recovery outside of range due to due

RL: Reporting Detection Limit W Sample container tomperate

is out of finits as spectrum

District f	State of New Mexico	2017
625 W. French Dr., Holden, NM (5124). Starist B	Energy Minerals and Natural Resources	Furm C-138
301 W. Grand Avenue, Ariesas, MM 88210 Sustaira 311	Oil Conservation Division	Surface Waste Management Facility Operates and Generator shall mountain and make the
000 Rio Brazos Road, Adec, NM 874.09 Isariet IV	1220 South St. Francis Dr.	and Generator shall maintain and make this documentation available for Division manochon
120 S. St. Franzia Dr., Sania Fr., NM 87505	Santa Fe, NM 87505	
	T FOR APPROVAL TO ACCEPT	SOLID WASTE
Generator Name and Address: nterprise Field Services, LLC, 614 Re	illy Ave, Farmington NM 87401	
Originating Site: MAPL Huerfann Pumping Station		
Location of Material (Street Addre UL L Section 21 Tawnship 26 North)	ss, City, State or ULSTR): Range 10 West; 36.471831, -107.908114	
Description: Non Exempt/Non-Mazardon	WasteWater Tunks and from the compressor skid of s water from the compressor skids. wn Volume (to be entered by the operator at the east	100
5. GENERA	TOR CERTIFICATION STATEMENT OF WA	STESTATUS
Generator Signature entify that according to the Resource Cor	or authorized agent for Enterprise Products Operati mervation and Recovery Act (RCRA) and the US E bed waste us: (Check the appropriate classification)	invironmental Protection Agency's July 1988
	generated from oil and gas exploration and product	
characteristics established in RCRA i	nate which is non-hazardous that does not exceed th regulations, 40 CFR 261.21-261.24, or listed hazard g documentation is attached to demonstrate the abs	ious waste as defined in 40 CFR, part 261,
MSDS Information S RCRA Haz	andous Waste Analysis @ Process Knowledge	Other (Provide description in Bos #1
GENERATOR 19.15 16 15	WASTE TESTING CERTIFICATION STATEM	MENT FOR LANDFARMS
74 1		
I, Thomas Long , representativ Generator Signature he required testing/sign the Generator W	ve for Enterprise Products Operating authorize to co aste Testing Certification.	omplete
(, represent	ative for Aguar Moss, LLC	do hereby certify that
epresentative samples of the oil field was nave been found to conform to the specifi	the have have subjected to the point filter test and le- ic requirements applicable to landfarms pursuant to to demonstrate the above-described waste conform	sted for chloride content and that the samples Section 15 of 19.15.36 NMAC. The results
OCD Permitted Surface Waste Mana;	annual Eastlin	
	N	
Name and Facility Permit #: *Agua Me Address of Facility: 5W/4 NW/4 Section	Ms, LLC - Permit #: NM-01-009 u 2, Township 29N, Range Crunch Mesa, NM	
Method of Treamsent and/or Disposal	jection 🗌 Freating Plant 🔲 Landfarm 🔲	Landfill 🔲 Other
Evaporation 🖾 In		
	APPROVED DENIE	D (Must Be Maintained As Permanent Record

Hall Environmental Analysis	Labora	tory, Inc.		Analytical Report Lab Order 1702072 Date Reported:	
CLIENT: Souder, Miller and Associates	-	(Tient Samp	le ID: Huerfano BGT	
Project: Huertann Station			Collection	Bate: 2/172017 1:50:00 PM	
Lab ID: 1702072-001	Statute:	AQUEOUS		Date: 2/2/2017 8:00:00 AM	
Lab 10. 1702072-001	Matrix.	AQUEUUS	Received	Date: 2/2017 0.00.00 701	
Analyses	Result	PQL Qual	Units	DF Date Analyzed	Batch
EPA METHOD #250B: VOLATILES				Analys	L DJF
1.2-Dibramoelham (EDB)	NO	0.20	molL	200 2/3/2017 E 43:07 PM	W405
Naphihalone	ND	0.40	molL	200 2/3/2017 8/43:02 PM	W405
1-Methylnaphthalene	ND	0.80	mg/L	200 2/3/2017 6:43:02 PM	W405
2-MnittyInachthalene	NO	0.60	Agm	200 2/3/2017 6:43:02 PM	W405
Acatone	NO	2.0	mg/L	200 2/3/2017 6:43:02 PM	W405
Bromobenzene	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W405
Biomidichlommiliani	NO	0.20	mg/L	200 2/3/2017 6:43:02 PM	W405
Bromotorm	ND	0.20	Jugen	200 2/3/2017 6:43:02 PM	W405
Bromomethane	ND	0.60	mg/L	200 2/3/2017 6:43:02 PM	W405
2-Billanonii	- 660	2.0	mp/L	200 2/3/2017 5:43:02 PM	W405
Carteon disvellets	- NO	2.0	mg/L	200 2/8/2017 6:43:02 PM	W405
Carbon Testasterinae	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W405
Chionobenaena	- NO	0.20	mp/L	200 2/3/2017 6:43:02 PM	W400
Chicroelhano	NO	0.40	mg/L	200 2/3/2017 6:43:02 PM	W408
Chloroform	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W405
Chleromaihane	664	0.60	mg/L	200 2/3/2017 B 43:02 PM	W405
2 Chlorololuono	NO	0.20	mg/L	200 2/3/2017 6:43:02 PM	W-105
4-Chlorotoluene	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W405
nie-1,2-DCE	NO	9.20	mg/L	200 2/3/2017 6:43:02 PM	W405
cis-1,3 Dichloropropene	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W405
1,2-Dibromo-3-chloropropane	ND	0.40	mg/L	200 2/3/2017 6:43:02 PM	W405
Dibromochloromethane	NO	0.20	mg/L	200 2/3/2017 6:43:02 PM	W405
Disromomethane	NO	0.20	mg/L	200 2/3/2017 6:43:02 PM	W405
1,2-Dichlorobenzene	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W405
1,3-Dichlorobenzenii	ND	0.20	mpiL	200 2/3/2017 6:43:02 PM	W405
1,4 Dichlorobenzene	NO	0.20	mg/L	200 2/3/2017 6:43:02 PM	W405
Dichlorodifluoromethane	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W405
1,1-Dichlornethane	ND	0.20	mg/L	200 2/3/2017 6:43 02 PM 200 2/3/2017 6:43 02 PM	W405
1,1 Dichloroethene	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM 200 2/3/2017 6:43:02 PM	W405
1,2-Dichloropropane 1,8-Dichloropropane	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM 200 2/3/2017 6:43:02 PM	W405
2,2 Dichloropropono	ND	0.40	mgit	200 2/3/2017 6:43:02 PM 200 2/3/2017 6:43:02 PM	W-105
1,1-Dichloropropene	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W405
Histachlorobutadiann	ND	0.20	mgit	200 2/3/2017 6:43:02 PM	WADS
2-Hexanone	NO	2.0	mgit	200 2/3/2017 6:43:02 PM	W408
Isopropylbenzene	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W405
4 laopropytioluene	ND	0.20	mg/L	200 2/3/2017 8.43.02 PM	WADS
4 Methyl 2 pentanone	ND	2.0	mg/L	200 2/3/2017 8:43:02 PM	W405
Methylene Chloride	ND	0.60	mg/L	200 2/3/2017 6:43:02 PM	W405

Qualifiers

- Value exceeds Maximum Comminant Level.
 D Sample Dilated Due to Marix
 Holding into Ser preparation or analysis exceeded
 ND Nets Detected at the Reporting Limit
 R PD outside accepted recovery limits
 % Recovery outside of range due to dilation or matrix
- 20 Autyte detented in the answirid Markod Mark.
 2 Value above quantitation range
 1 Analyte detected bedwe quantitation limits Page 2 of 0
 P Sample pH Net in Range.
 Repeting Detection Limit
 W Sample container temperature is out of limit as specified

Project:	Huerta	r, Miller and Associates no Station 72-001	Matrix.	AQUEOUS	C	Col	lection	Date: 27)	erfano BGT 72017 1:50:00 PM 9/2017 8:00:00 AM	
Analyses			Result	PQL Q	(ani	Un	85	DF	Date Analyzed	Batch
EPA METH	100 7	170: MERCURY							Analyst	pmf
Mircury			ND	0.00020		mi	J/L	1	2/2/2017 5:40:31 PM	50033
EPA 60108	8: TOT :B	AL RECOVERABLE ME	TALS						Analysi	hma
Anionic			ND	5.0		-			2/6/2017 11:55:59 AM	30031
Burtum			ND	100		m			2/6/2017 11:55:58 AM	30031
Cadmium			ND	1.0		m			2/6/2017 11:55:58 AM	30031
Chromium			ND	5.0		m			2/6/2017 11:55/58 AM	30031
Land			ND	0.0		m			2/6/2017 11:55:58 AM	30031
Selentum			ND	1.0		m	aL.	- T.	2/6/2017 11:55:58 AM	30031
Seven			NO	5.0		- 700			2/6/2012 11:55:58 AM	30011
EPA METH	100 8	270C: PAHS							Analyst	JDC
Naphthale			ND	2.5	D	μg	a.	1	2/3/2017 12:17:25 PM	30020
1-Mainyin		dina.	ND	2.8	D	Hg		Ť	2/3/2017 12:17:25 PM	30020
2-Mathyin			ND	2.5	0	19		· · · ·	2/3/2017 12:17:25 PM	30020
Acenapht			ND	2.5	D	HQ		1	2/3/2017 12:17:25 PM	30020
Abimaphil			ND	2.8	D	10		1	2/3/2017 12:17:25 PM	30020
Fluaránia			ND	2.8	D	15			2/3/2017 12:17:25 PM	30020
Phenanth	rene		ND	2.5	D	PO		1	2/3/2017 12:17:25 PM	30020
Anlivacer	w		ND	.25	D	110	IL.	1	2/3/2017 12:17:25 PM	30020
Fluorantha	ono		ND	2.6	D	HS			2/3/2017 12:17:25 PM	30020
Pyrene			ND	2.5	D	P3	JL.	1	2/3/2017 12:17:25 PM	30020
Benzialar	litracia	10	ND	2.0	D	100	pL.	11	2/3/2017 12:17:25 PM	30020
Chrysona			ND	2.5	D	PE		· · · ·	2/3/2017 12:17:25 PM	30020
Benzo(b)f	luoranti	hene	ND	2.5	D	PS	VL.	1	2/3/2017 12:17:25 PM	30020
Berizo(k)/	koranti	korwi	ND	65	D	11	p1.	1	2/3/2017 12:17:25 PM	30020
Benzo(a);	Tyrone		ND	2.5	U.	PS	VL.		2/3/2017 12:17:25 PM	30020
Dibenz(a)	h)anthr	acene	ND	2.5	D	PS	µ/L	1	2/3/2017 12:17:25 PM	30020
Banzn(p.)	i.l)peryl	and the second sec	ND	2.5	D	- 61	μ1.	1	2/3/2017 12:17:25 PM	30020
Indend(1,	(bo-6,5	Tyriania	ND	2.5	D	PS	A	1	2/3/2017 12:17:25 PM	30020
Surr: N	-hexade	ecane	73.6	15-176	D		Rec	1	2/3/2017 12:17:25 PM	30020
Sur: B	erizo(#)	ручение	74.3	15-198	D	୍ୟ	Rec	1	2/3/2017 12:17:25 PM	30020
EPA METH	HOD 8	260B: VOLATILES							Apalys	C DJF
Bonzono			ND	0.50		m	g-L	20	0 2/3/2017 6:49:02 PM	W4050
Toluene			0.23	0.20		m	g/L	20	0 2/3/2017 6:43:02 PM	W4050
Etiv/linenz	ene		ND	0.20		m	g/L	- 20	0 2/3/2017 in 43:02 PM	W4050
Melinyi ter	t buly!	oliver (MTBE)	ND	0.20		m	9/L	-28	6 2/3/2017 6.43:02 PM	W4850
1,2,4-Trim			ND	0.20			g/L		0 2/3/2017 6:43:02 PM	W4050
1,3,5-Trin			ND	0.20			9ľ		0 2/3/2017 6.49/02 PM	W4050
1,2 Dishis	nostra	no (EDC)	ND	0.20		m	aL.	20	6 2/3/2017 6:43:62 PM	WA050
Ref	er lo ti	ae QC Summery report ar	ul cample log	jin checkloi	lor I	Ragg	ni QC i	data and p	preservation informatic	in.
Qualifiers:		Value exceeds Maximum Co	otaminati Leve	L		8	Analyte	detected in	the associated Method Blan	k
A summer be	D	Sample Diluted Due to Matri				E			tation range	100
	H	Holding times fin preparation		Lobert		1				gi l of 0
	HD	Not Detected at the Reportin				p		H Not In I		Ed 1 of 0
	R	RPD outside accepted recover				RL		g Detection		
	S	% Recovery outside of range		or matrix		W			mperature is out of limit as	specified

- J Analyse denscript below quantification limits
 Pagg 1 of 0
 Sample pH Not for lange
 RL Reporting Detection Limit
 W Sample container temperature is out of limit as specified

Analytical Report

Hall Environmental Analysis	Labora	tory, Inc.		Lab Order 1702072. Date Reported:			
CLIENT: Souder, Miller and Associates Project: Huerlano Station Lab ID: 1702072-081	Ntatris:	AQUEOUS	Client Sample ID: Huerlano BGT Collection Date: 2/1/2017 1:50:00 PM Received Date: 2/2/2017 8:00:00 AM				
Analyses	Result	PQL Qual	Units	DF Date Analyzed	Batch		
EPA METHOD 82608: VOLATILES				Analys	: DJF		
n-Butylbenzeise	NO	0.60	mg/L	200 2/3/2017 6:43:02 PM	W4050		
n-Propyllienzene	NO	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4054		
sec-Butylbenzene	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050		
Styrenm	10	0.20	mg/L	200 2/3/2017 6:43:02 PM	W405		
Tort-Buty/banzona	NO	0.20	mgiL	200 2/3/2017 8:43:02 PM	W4056		
1,1,1,2-Tetrachloroethane	ND	0.20	ma/L	200 2/3/2017 6:43:02 PM	W4050		
1,1.2.2-Telrachieroerivene	NO.	0,40	mg/L	200 2/3/2017 6:43:02 PM	W4050		
Tetrachlorosthene (PCE)	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4056		
trans-1,2-DCE	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050		
irans-1.3-Dichleropropene	NO	0.20	mart	200 2/3/2017 6:43:02 PM	W4050		
1,2,3-Trichlarobenzone	NO	0.20	mgrL	200 2/3/2017 0.43.02 PM	W4056		
1,2,4-Trichlorobenzene	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050		
1,1,1-Trichlargethene	NO	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050		
1,1,2 Trichloroethane	ND	0.20	ing/L	200 2/0/2017 0.40.02 FM	W4050		
Trichloroethene (TCE)	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050		
Trichioroflucyomethene	ND	0,20	mg/L	200 2/3/2017 6:43:02 PM	W4050		
1,2,3 Trichleropropanc	ND	0.40	mg/L	200 2/3/2017 0.43.02 PM	W4050		
Vinyl chloride	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050		
Xylenns: Tcital	NO	0,30	mg/L	200. 2/3/2017 0:43;02 PM	W4050		
Sum: 1,2-Dichloroethane-d4	103	70-130	%Rec	200 2/3/2017 6:43:02 PM	W4050		
Sur: 4-Bromofluorobenzene	96.6	70-130	%Rec	200 2/3/2017 6:43:02 PM	W4050		
Sur: Ditromofluorometinane	105	70-130	%Rec	200 2/3/2017 6:43:02 PM	W4050		
Sun: Toluene-de	109	70-130	Torses	200 2/3/2017 0.43.02 PM	W4050		

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

Hillers:

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- Mini C . commany report and sample regard sectors of Plages 4
 Value caeced Maximum Commany Level.
 D Analyse detected in the associated Method Datas.
 Sample Diracia and the resource exceeded
 Value above quantitation range
 H Infolding times for preparation or and/ym exceeded
 J Analyse detectan below quantitation items
 Page 3 of 0
 And Plages 4
 RepO outside accepted recovery limits
 R. Reporting Detection Limit
 S % Recovery outside of range due to dilution or matrix
 W Sample container temperature is out of limit as specified

			2017
District J 1625 N. Wesch Dr., Motts, SM 10240 Datase II 201 W. Ganod Avenual, Actions, NM 10 Dataset III 1000 Rio Brazos Road, Aztec, NM 874 District IV 1220 S. 81 Primeis Dr., Santa Fe, NM 4	Energy Minera 0010 Oil Cons 110 1220 Sou	of New Mexico Is and Natural Resources servation Division uth St. Francis Dr. Fe, NM 87505	Form C-138 Bernal 0690/111 Surface Watte Management Fuellity Operation and Generator shall maintain and make this documentation available for Division inspection.
the second second second second second second second second second second second second second second second s	OUEST FOR APPRO	a state of the second se	SOLID WASTE
1. Generator Name and Add		TAL TO ACCUT	SOLID WASTE
Enterprise Field Services, LL	C, 614 Reilly Ave, Farmington	NM 87401	
2. Originating Site: Potter Compressor Statio	D		
	eet Address, City, State or ULS 30 North Range 10 West; 36,803		an County, NM.
Description: Non Exempt/Nop	f Wastes on Exempt WasteWater Tanks an Higzardow Water from the compt bbb/ Krawar Volume (in be onto	ressur skids	
3	GENERATOR CERTIFICATI	ON STATEMENT OF WA	ASTE STATUS
Generator Signature certify that according to the Re- regulatory determination, the al	bove described waste is: (Check th	y Act (RCRA) and the US E he appropriate classification gas exploration and produc	invironmental Protection Agency's July 1988) tion operations and are nut mixed with non-
KCRA Non-Exempt: 0 characteristics established	Oil field waste which is non-lazza in RCRA regulations, 40 CFR 26	ndom that does not exceed th 1.21-261.24, or listed bacard	he minimum standards for waste hazierdous by lous waste as defined in 40 CFR, purt 261, ove-described waste is non-hazardous. (Check
TI MSDS Information DT R	CRA Hazardous Waste Analysis	51 Process Knowledge	Other (Provide description in Brot 4)
	15.36.15 WASTE TESTING CI		a store where the store of the
	presentative for Enterprise Production and the product of the second sec		ampleie
representative samples of the ni have been found to confirm to of the representative samples ar 19.15.36 NMAC.	the granific requirements applied to demonstrate the abo	ste to landfarms pursuant to	do hereby certify that sted for chloride context and that the tamplet Section 15 of 19.15.36 NMAC. The results to the requirements of Section 15 of
5, Transporter: To Be Deter			
	Agua Moas, LLC - Permit #: N V/4 Section 7, Township 29N, R: d: M M Injection Treating f	ange Crouch Mesa, NM Plane 📋 Landfarm 🔲	
	APPROVED	TITLE CHERT	D (Muss Be Mainsained As Permaneni Record) DATE: 13/17 (SD3)SHCA Do

ENVIRONMENTAL	Hall Environmental Analysis Laborator 2007 Howkins N Attomport goog WA 10710
ANALYSIS	TRE 305-545 1073 PAX 103-345 4H
LABORATORY	normal and dealers and the second
December 04, 2017	
Ashley Maxwell	
Souder, Miller and Associates	
401 W. Broadway	
Farmington, NM 8740) TEL: (505) 323-5007	
FAX (505) 327-1496	
RE: Potter CS	OrderNo.: 1711506
Dear Ashley Maxwell:	
Hall Environmental Analysis Laboratory received 1	sample(s) on 11/9/2017 for the
analyses presented in the following report.	
These were analyzed according to EPA procedures of	or equivalent. To access our accredited
tests please go to www.hullenvironmental.com or th	e state specific web sites. In order to
properly interpret your results, it is imperative that y	
See the sample checklist and/or the Chain of Custod	
sample receipt temperature and preservation. Data c previded if the sample analysis or analytical quality	
When necessary, data qualifiers are provided on both	
OC summary report, both sections should be review.	
received, unless otherwise indicated. Lab measurem	
parameters that require analysis within 15 minutes o	
chlorine are qualified as being analyzed outside of th	he recommended holding time.
Please don't hesitate to contact HEAL for any addition	and information or algoitions
Theuse don't neshate to contact THE TE for any addition	onal miormation of charmentons.
ADHS Cert #AZ0682 - NMED-DWB Cert #NM9	
ADHS Cert #AZ0682 - NMED-DWB Cert #NM9	
ADHS Cert #AZ0682 - NMED-DWB Cert #NM9	
ADHS Cert #AZ0682 - NMED-DWB Cert #NM9	
ADHS Cert #AZ0682 - NMED-DWB Cert #NM9 Sincerely,	
ADHS Cert #AZ0682 - NMED-DWB Cert #NM9 Sincerely, Andy Freeman Laboratory Manager 4901 Hawkins NE	
ADHS Cert #AZ0682 - NMED-DWB Cert #NM9 Sincerely, Andy Freeman Laboratory Manager	
ADHS Cert #AZ0682 - NMED-DWB Cert #NM9 Sincerely, Andy Freeman Laboratory Manager 4001 Hawkins NE	
ADHS Cert #A20682 - NMED-DWB Cert #NM9 Sincerely, Andy Freeman Laboratory Manager 4901 Hawkins NE	
ADHS Cert #A20682 - NMED-DWB Cert #NM9 Sincerely, Andy Freeman Laboratory Manager 4901 Hawkins NE	

Tan Eur	TO	amentai Anai	ysis Labora	tory, Inc.			Date Reported: 12/4/201	7
LIENTS	mide	Miller and Associa	nes.		liest Sam	nle III: Pol	ner BGT	
roject: F			art.e				7/2017 2:08:00 PM	
			and a star	The second				
ab 1D: 1	7115	06-001	Mateix	AQUIDADE	Received	1 Plate: 11/	9/2017 7-00-06 AM	
nalyses	_		Result	PQL Qual	Units	DF	Date Analyzed	Batch
EPA METH	00.7	TO: MERCURY					Arialyst:	MED
Manag			NU	44.0000	mgt	1.1	11/21/2017 4:04:21 PM	35088
EPA 60108	101	AL RECOVERABL	EMETALS				Analyst	MED
Atlenic			ND	5.0	mgL		11/27/2017 10:37:58 AM	
Banum			ND	100	mgit	1	11/27/2017 10:37:58 AM	
Cadmium			ND	1.0	mg/L	1	11/27/2017 10:37:58 AM	
Chromium			ND	5.0	mal	1	11/27/2017 10:37:58 AM	
Lood			ND	5.0	mail	1	11/27/2017 2:50:55 PM	
Selenium			ND	1.0	mal	1	11/27/2017 10:37:58 AM	
Siww			ND	5.0	right	- i	11/27/2017 10:37:58 AM	
PA METH	00 8	270C: PAHS					Analysit	DAM
Naphthales			38	1.6	und	1	11/14/2017 3-37 17 PM	34071
1-Mathylina	phthai	ine .	ND	2.5	UQ7_	1	11/14/2017 3:37:17 PM	34973
2-Methylna			2.9	2.5	Ugit	1	11/14/2017 3:37:17 PM	34973
Acenaphth			ND	2.5	Leu	1	11/14/2017 3:37:17 PM	34973
Acenaption	HON!		ND	2.5	wort_		11/14/2017 3:37:17 PM	34973
Fluevene			ND	2.5	HOL	1	11/14/2017 3:37:17 PM	34973
Phenanthre	ene		ND	2.5	Ug/L	1	11/14/2017 3:37:17 PM	34973
Anthracien			ND	2.5	UpL	1	11/14/2017 3:37:17 PM	
Forcentha			ND	2.5	Ugit_		*1/14/2017 3:37-17 PM	34073
Pyrene			ND	2.5	Ugit		11/14/2017 3:37:17 PM	
04initia)ant	initial initial		PID -	2.5	Jan.	1	11/14/2017 3:37:17 PM	
Chrysena			ND	2.5	uar.	1	11/14/2017 3 37:17 PM	
Berna(b)/h			NO	2.5	hair	1	11/14/2017 3:37:17 PM	
Denzo(k)nu		ione	ND	2.5	µg/L	T	11/14/2017 3.37:17 PM	
Benzo(a)py			ND	2.5	µg/L	1	11/14/2017 3:37:17 PM	
Olbenz(a,h			ND	2,9	40L	1	11/14/2017 3:37:17 PM	
Berdoja II.			ND	2.5	wat.	1.2	11/14/2017 3:37.17 PM	
Indenci 1,2			ND	2.5	Jun.	1	11/14/2017 3:37:17 PM	
Surt NH Surt Bé			76.9	39.3-124	NRec Street		11/14/2017 3:37:17 PM 11/14/2017 3:37:17 PM	
			610	30.3-124	- Second	.1		
	OD 8;	260B: VOLATILES					Analyst:	
Вепарон			ND	0.50	ist		11/13/2017 1:46:00 PM	
Toluene			0.32	0.20	pyrL		11/13/2017 1.40.00 PM	
Ethylbenze			ND	0.20	ugit		11/13/2017 1:46:00 PM	
		When (MTBE)	NO	0.20	Hor.		11/13/2017 1 46:00 PM	
1,2,4-Toma			ND	0.30	ugt		11/13/2017 1.48.00 PM	
1.3,5-Trime			NB	0.20	ugh.		11/13/2017 1:46:00 PM	
1.2-Dictrior			ND	0.20	har		11/13/2017 1-46:00 PM	
	r to th				- Part - 2		reservation information	
wallfiers:	1	Value exceeds Maximu		L			he associated Method Blank	
	D	Sample Diluted Due to			E Value a	bove quantita	ation range	
		Holding times for prepa		hebook	I Asselyte	devenat bel	w quantumien limits Page	L of 12
	75.D	Not Detected in the Rep			P Sample	pH Nos In R.	ange	
	PQL					ing Detection		
	181	% Receivery maride of	cauge due to dilution	ca tamaca	W Sample	cominities' ten	operature is out of limit as sp	anci B(i)

CLIENT: Souder, Miller and Associates Project: Potter CS Lab ID: 1711506-001	Matrix:	AQUEOUS	Collection I	e ID: Potter BGT Date: 11/7/2017 2:00:00 PM Date: 11/9/2017 7:00:00 AM	
Analyses	Result	PQL Qui	d Units	DF Date Analyzed	Bsich
EPA METHOD 8260B: VOLATILES				Analyst	RAA
1,2-Distromostibaine (EDB)	ND.	0.20	UOL.	200 11/13/2017 1 4/E00 PM	R47088
Napronalene	ND	0.40	µg/L	200 11/13/2017 1:46:00 PM	R47088
1-Methvinaphthalene	ND	0.80	µg/L	200 11/13/2017 1:46:00 PM	R47086
2-Methylnaphthalene	ND	0.80	H9/L	200 11/13/2017 1:46:00 PM	R47088
Acetone	ND	2.0	µg/L	200 11/13/2017 1:46:00 PM	R47088
Bromobenzene	ND	0.20	ug/L	200 11/13/2017 1:46:00 PM	R47088
Bromodichloromethane	ND	0.20	HO/L	200 11/13/2017 1:46:00 PM	R47088
Bromoform	ND	0.20	non.	200 11/13/2017 1:48:00 PM	R47088
Bromomethane	ND	0.60	µg/L	200 11/13/2017 1:46:00 PM	R47088
2-Billionaie	NO	2.0	Up/L	200 11/13/2017 1:46:00 PM	R47088
Carlson desi/fidu	NO	20	Jak	200 11/13/2017 1:46:00 PM	R47008
Carbon Tetrachloride	ND	0.20	µg/L	200 11/13/2017 1:46:00 PM	R47088
Chlorobenzene	ND	0.20	µg/L	200 11/13/2017 1:46:00 PM	R47068
Chloroethane	ND	0.40	µg/L	200 11/13/2017 1:46:00 PM	R47088
Chianafurm	(QD)	0.20		200 11/13/2017 1:46:00 PM	R47088
Chloromethane	ND	0.60	have	200 11/13/2017 1:40:00 PM	R47085
2-Chlorotoluene	ND	0.20	µg/L	200 11/13/2017 1:46:00 PM	R47088
#-Chipololum#	ND	0.20	Jeu	200-11/13/2017 1:48:00 PM	PA7055
ete 1.2 DCE	ND	0.20	- +04	200 11/13/2017 14/5 00 PM	347088
cis-1,3-Dichloropropene	ND	0.20	Jeu	200 11/13/2017 1:46:00 PM	R47088
1,2-Dibromo-3-chloropropane	ND	0.40	µg/L	200 11/13/2017 1:46:00 PM	R47088
Dibromochloromethane	ND	0.20	Jou	200 11/13/2017 1:46:00 PM	R47088
Decomposition	ND	0.20	- Pal-	200 11/13/2017 1:46:00 PM	
1,2-Dichloropenzene	ND	0.20	ugit	200 11/13/2017 1:46:00 PM	R47088
1,3-Dichlorobenzene	ND	0.20	ugiL	200 11/13/2017 1:46:00 PM	
1,4-Dichlorobenusme	ND	0.20	10%	200 11/13/2017 1.46.00 PM	FI47088
Dichlorodmuoromethane	ND	0.20	MAL	200 11/13/2017 1:48:00 PM	R47089
1,1-Dichloroethane	ND	0.20	ug/L	200 11/13/2017 1:46:00 PM	R47088
1/1-Dichlorosilymer	ND	0.20	DOL.	200 11/13/2017 1/46/00 PM	FM7088
1,2-Dichloropropana	40	0.90	ngu	205 11/192017 LAE 00 PM	Fe47088
1,3-Dichloropropana	ND	0.20	LIGIL	200. 11/13/2017 1:46:00 PM	R47088
2.2-Dichloropropane	ND	0.40	µg/L	200 11/13/2017 1:46:00 PM	R47088
1.1-Dichloropropene	ND	0.20	ug/L	200 11/13/2017 1:46:00 PM	
Hexachlorobutadiene	ND	0.20	ug/L	200 11/13/2017 1:46:00 PM	R47038
2-Hexanone	ND	2.0	ugit	200 11/13/2017 1:46:00 PM	R47088
Isopropylbenzene	ND	0.20	Leu	200 11/13/2017 1:46:00 PM	
4-Isoja opyliciusne	ND	0.20	Val	200 11/13/2017 1 46:00 PM	R47088
4-Methyl-Z-peritarione	ND	2.0	H9L.	200 11/13/2017 1:46:00 PM	R47088
Methylene Chloride	ND	0.60	µg/L	200 11/13/2017 1:46:00 PM	R47088
Refer to the QC Summary report at	al sumple log	in checklist for	flagged QC d	inta and preservation informatio	ci.
Qualifiers: * Value meeods Maximum Co	eterinant love		B Analytes	detected in the associated Mellod Bland	6
D Sample Diluted Duc to Mate		1.1		ove quantitation range	
H Holding times for preparatio		reded	J Analyte	detected below quantitation limits Page	2 .612
ND Not Detected at the Reportin			P Sample p	H Not In Range	¢ 2 01 12
PQL Practical Quanitative Limit	0			g Detection Limit	
S % Recovery outside of range	due to dilution	or matrix		container temperature is out of limit as a	pecified
5 % Recovery outside of range	due to dilution	or mainx.	w Sample c	centainer temperature is out or timit as i	pectises

Hall En	viro	nmental Analysis	Labora	tory, Inc.	ć.	Lan Onter 1711500 Date Reported 1204/20	ii
CLIENT:	Scalde	, Miller and Associates		(lient	t Sample ID: Policy BGT	
Project:	Potter	CS			Call	logilon Date: 11/7/2017 2:00:00 PM	
Lab ID:	17115	06-001	Matrix	AQUEOUS	-	zeived Date: 11/9/2017 7:00:00 AM	
Analyses			Result	PQL Qual	Uni	its DF Date Analyzed	Batch
EPA MET	IOD 8	2008: VOLATILES	-			Auglyst	RAA
12-0/0/08	noutro	ve (EDB)	ND	0.20	ÚQ.	200 11/15/2017 1:46:00 PM	R4708
Nachihale			NO	6,40	Lal		
1-Methylini	aprillia	en let	ND	0.60	ppl		
2-Methyln	aphthal	ene	ND	0.80	µg/	L 200 11/13/2017 1:46:00 PM	R4708
Azsitten			ND	2.0	HOM	200 11/13/2017 1:45:00 PM	H4708
E/oimobon	utere.		ND	0.20	- HER	L 200 11/13/2017 1/46:00 PM	R4708
Bromodict	hlorom	thane	ND	0.20	hay	L 200 11/13/2017 1:46:00 PM	R4708
Brainvalow	W		ND	0.20	HON		R4708
Branin met	Commit i		ND	0.60	inp/l		R4708
2-Eularion	10		ND	2.0	- ver	200 11/13/2017 1:46:00 PM	R4705
Gargeria	NAME.		ND	20	ug/t		FEA705
Carbon Te	KTHONE	nde	ND	0.20	ИДИ	200 11/13/2017 1:46:00 PM	R4708
Chieroben	think		NO	D 20	. HON		R4708
Chippoon	7277		ND	0.40	NOT		164708
Chloroform	n		ND	0.20	µg/l	L 200 11/13/2017 1:46:00 PM	R4708
Chloromit	due		ND	0.60	UD/		R4708
2-Chierple	dame.		ND	0.20	- 400		RATUS
4-Chiotolo	mauk		ND	0.20	HD/		R4708
05-1,2-00	Æ		NU	0.20	00/1		
dis-1.3-Did	Subarra	COUNT	ND	0.20	HON	200 11/13/2017 1/4/2/00 PM	R4788
1,2-Olbron	10-3-01	ANTONEDONE	ND	0.40	-un/		R4708
Dibromod	hiorome	thane	ND	0.20	PPI		
Dibromom	ethane		ND	0.20	L/dri		
f.B.Exichio	robinz	000	ND	0.20	bo/l		Fi4704
i S.Fickia	mburg	640	P4D	0.20	нал		R4768
1,4-Dichts	TRACKING STREET	608	ND	0.20	how		R4708
Dictiond	ELCPOIT	alhaha	ND	0.20	Ngu		64708
1.1.Dicho	/octvin	á.	ND.	D 200	Jun		
1.1-Dichla			ND	0.20	Ugh		R4708
1,2-Diuhlu			ND	0.20	1/g/1		
1.3-Dichlo	roprop	ne	ND	0.20	µg/l		R4708
9.2-Dichler	100/00	No:	NO	0.40	HOM		R4708
1,1-Dichio	ropriope	ine	ND	0.20	Pg4		R4708
Hexachion	obutad	ene	ND	0.20	ug/l		
2-Heanno			ND	20	Jugh		R4708
Isopapyib	and the second		ND	0.20			R4708
4-Isopropi	Rolden		ND	0.20	ug/l		R4708
+Molinyl-2	E-EMPIRE	NUT OF THE OWNER	NU	2.0	HON		F64/08
Manytone	Chion	20	NO	0.60	ug/		
Refi	e la it	a QC Summary report an	d sample log	in checklist for f	lagge	ed QC data and preservation informatio	ń.,
Qualifiers:		Value exceeds Maximum Co	Siminani Leve	4	8 /	Analiyte detected in the associated Method Blank	
	D	Sample Diluted Due to Matri	¢		EV	Value above quantitation range	
	H	Holding times for preparation	or analysis and	Indian	1.1	Analyse devoted below quantum and Page	a state
	2413	Not Detected at the Reporting			p 8	Sample pH Not in Renner	140012
	POL	Practical Quanitative Limit		1.0		Reporting Detection Limit	
	s	% Recovery outside of range	due to dilution	of mains	w s	Sample container temperature is out of limit as a	-

Hall E	nvironmental Analysi	Labora	itory, l	nc.		Law Order 1711506 Drie Reported: 12/4/201	ŕ
CLIENT:	Souder, Miller and Associates				Bent Samp	He ID: Potter Blat	
Project:	Pouer CS				Collection	Date: 11/7/2017 2:00:00 PM-	
Lab ID:	1711506-001	Matrix:	AQUEOU	JS	Received	Date: 11/9/2017 7:00:00 AM	
Anulyses		Deentr	POL	Onel	Finite	DE Date Analyzed	ю.

Analyses	Result	PQI. Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8268B: VOLATILES	1.0		1.1	Analyst	RAA
n-Butylbenzene	ND	0.60	Lou	200 11/13/2017 1:46:00 PM	R4708
n-Propylbenzene	NO	0.20	uo/L	200 11/13/2017 1:46:00 PM	R4708
aco-Butyloenzene	ND	0.20	UG/L	200 11/13/2017 1.46.00 PM	R4708
Styrene	ND	0.20	Jgu	200 11/13/2017 1:46:00 PM	R4708
Tert-Butylbenzene	ND	0.20	HOM	200 11/13/2017 1 40:00 PM	84708
1,1,1,2-Tetrachlaroothana	ND	0.20	HOL	200 11/13/2017 1:46.00 PM	R4708
1,1,2,2-Tetrachloroethane	ND	0.40	Jou	200 11/13/2017 1:46:00 PM	R4708
Tetrachicizalivene (PDE)	ND	0.20	JOU	200 11/18/2017 1:46:00 PM	84709
trans-1,2-OCE	ND	0.20	Joga.	200 11/13/2017 1:40:00 PM	B4705
irans-1,3-Oidtilaroprogene	ND	0.20	LOC	200 11/13/2017 1:46:00 PM	R4708
1,2,3-Trichlorobenzene	ND	0.20	HOL	200 11/13/2017 1:46:00 PM	R4708
1,2,4-Trichlorobenzene	ND	0.20	L/QL	200 11/13/2017 1:46:00 PM	R4708
1,1,1-Trichissperture	ND	0.20	Port	200 11/13/2017 1:46:00 PM	R4700
1,1,2-Trichlorosthums	ND	0:20	Pg/L	200 11/13/2017 1:46:00 PM	R4708
Trichloroethene (TCE)	ND	0.20	µg/L	200 11/13/2017 1:46:00 PM	R4708
Trichlorofluoramiething	ND	0.20	UP/L	200 11/12/2017 1:46:00 PM	R4700
1.2.3-Techtsnoopenne	ND	0.40	(igit)	200 11/13/2017 15/6 00.PM	RAYN
Vinyl chlande	ND	0.20	Jun T.	200 11/13/2017 1:46:00 PM	R470
Xylenes, Totai	ND	0.30	µg/L	200 11/13/2017 1:46:00 PM	R4/08
Surr: 1,2-Dichloroethane-d4	117	70-130	%Rec	200 11/13/2017 1:46:00 PM	R4708
Suv. 4-Bromofluorobenzena	104	76-130	MRec	200 11/13/2017 1-46.00 PM	R4708
Surr: Dibromofluoromethene	110	70-130	70Rec	200 11/13/2017 1:46.00 PM	R4708
Surr: Toluene-d8	98.4	70-130	%Rec	200 11/13/2017 1:46:00 PM	R4708

Refer in the QC Summary report and cample login checklist for flagged QC data and preservation information

Qualifiers:

- Voice records of solutions (requestion is an insight of the solution is a solution of the solution is a solution of the solution is a solution of the so

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84-Dec-17

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc. (H-Dec-17 Client: Souder, Miller and Associates Potter CS Projects

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Sample ID: 109ng los	SampT	yper Li	1004	TM	Waster B	PA Mailand	NZINDE: YOL	ATEED		
Climit (D BerchOC	Balch	ID: R	47088		RunNo: 4	7068				
Prep Date:	Analysis D	ate: 1	1/13/2017		SeqNo: 1	1502364	Units: pg/L			
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Ekthiorgensprint	22	1.0		0	108	70	130			-
Heixadiliimbstadems	15	9,0	20.00	0	89.6	70	130			
2-Hexanone	39	10	40.00	0	98.3	60	140			
laopropylbenzene	19	1.0	20,00	0	94.8	70	130			
4-Isopropyltoluene	20	1.0	20.00	0	100	70	130			
4-Milliyl-2-pentarune	45	10	40,00	.0	112	60	140			
Malhylena Chlorida	22	3.0	20.00	0	110	70	130			
n-Buty/benzene	19	3.0	20.00	0	96.7	70	130			
n-Propylbenzene	20	1.0	20.00	0	102	70	130			
sec-Butylbenzene	20	1.0	20.00	0	98.1	70	130			
Styrene	19	1.0		0	95,5	70	130			
ert-Dutylberizene	20	1.0		0	98.1	70	130			
1,1,1,2-Tetrachloroethane	19	1.0	20.00	0	94.1	70	130			
1,1,2,2-Tetrachloroethane	.23	2.0	20.00	0	114	65.9	133			
fetrachloroethene (PCE)	10	1.0	20.00	0	90.3	70	130			
rans-1,2-DCE	21	1.0	20.00	0	106	70	130			
Rene-1.3-Dichky grope/w	19	1.0	20,00	0	94,0	70	130			
2.3-Trxhlooperaise	10	1.0	20.00	0	95.3	- 70	130			
2,4-Trichlorobermiele	19	1.0	30.00	0	91.5	70	130			
1,hTriderustiens	- 21	1.0	20.00	0	105	70	1.30			
1,2-Individualiana	20	1.0	20.00	0	9.59	70	120			
Trichloroethene (TCE)	21	1.0	20.00	0	107	70	130			
Trishlarefluoremethane	21	1.0	20.00	0	108	70	130			
2,3-Trichloropropane	22	2.0	20.00	0	110	69.7	129			
Vinyl chloride	21	1.0	20.00	0	104	70	130			
Kylenes, Total	58	1.5	60.00	0	97.2	70	130			
Sur: 1,2-Dichloroethane-d4	11		10.00		112	70	130			
SUIT: 4-Bromofluorobenzene	11		10.00		107	70	130			
Sur: Dibromofluoromethane	11		10.00		113	70	130			
Sur: Tulvave-sil	10		10.00		101	70	130			
Samiole (D) RSI	SameT	PE M	BLK	Tea	Code: E	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Batch	ID: RA	7088	F	RunNo: 4	7088				
Prepi Date.	Analysis Li	100: 1	1/13/2017		SeqNo: 1	502370	Units: up/L			
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	KPDLimit	Qual
Benzene	ND	1.0				-	-			
oluene	ND	1.0								
Hylbenzene	ND	1.0								
Onalifiers:		-								
 Value exceeds Maximum 	· · · · · · · · · · · · · · · · · · ·			-				1		
		cyar.					ni Mathod Bla	ik.		
and the second s			÷.			titalión racino			- No. 7 - 1	
H Holding times for prepara ND Not Detected at the Rope		excente	4			eiow quantita	ations blowing		Page 5 of	12
PQL Practical Quanitative Lin					phi Nee In					
					1g Detection					

Sample (D 199ing las	Samp	CANC: FQ	64	Ter	nGodin E	PA Method	SECOD: YOU	ATILES		
Climit ID: BatchOC	Bain	ND RS	7065		Runtia: 4	7068				
Prep Date:	Analysis (346: 11	113/2017	1.1	BegNici 1	502364	Unit: µg/L			
Analyse	Result	POL	SPK velue	SPK Rel Val	MREC	LowLenit	Healthink	SARPO.	RPDLimit	Qual
Borzene	21	1.0	20.00	U	107	/0	130			
Tolueve	19	1.0	20.00	0	97.A	70	130			
Ethyltectrene	10	1.0	29.00	0	95.8	70	130			
Nethyl teri-bulyt ether (MTDC)	-44	1.0	40.00	0	110	70	130			
2,4-Trimethylbenzene	20	1.0	20.00	0	100	70	130			
15-Timelyberzene	.20	1.0	20.00	0	100	.70	130			
2-Dichlenumma (EDC)	22	1.0.	20.00	0	100	62.2	243			
2-Obronoethawe (EDB)	20	1.0	20.00	0	99.5	70	130			
Weil & Brahlerse	20	2.0	20.00	0	97 B	70	130			
MathylinguthBuilding	20	-4.0	20.00	a	99.1	50	140			
Mainyinaphthalang	15	40	20.00	a	73.3	80	140			
ceture	40	10	40.00	σ	101	60	140			
Iromoberizene	20	1.0	20.00	0	102	70	130			
konocichioramethwie:	22	¥.0	20.00	0		70	130			
horelam.	10	1.0	20.00	0	64,8	70	130			
kromomethane	13	3.0	20.00	0	66.3	60	140			
-Bidancee	-65	10	40.00	0.	112	B0	140			
arbit toulle	-45	10	40.00	0	112	ĐÔ	140			
Calbor Tetrachloride	.21	1.0	20.00	0	105	70	130			
10 mulue vene	19	1,0	20.00	υ.	97.3	70	130			
hivolivant	10	2.0	20.00	0	96.3	60	540			
MONUM	22	1.0	20.00	0	110	70	130			
hioromotheric	21	5.0	20.00	o	103	00	140			
2-Chlorotoluene	21	1.0	20.00	0	103	70	130			
-Chlorok/uere	.24	1.0.	29.00	0	103	70	130			
561,2/0CE	22	1.0	20.00	- 0	112	20	100			
is-1,3-Dichlarophpenai	21	1.0	20.00	- 0	103	70	130			
J-Ulocimo-Schleitopredenti	30	2.0	20.00	0	101	70	130			
interimochiariometriane	18	1.0	20.00	u.	92.0	70	100			
Mexamumaikaria	23	1.0	20.00	0	193	70	130			
2-Okchioroberizene	20	1.0	20.00	0	98.7	70	130			
1,3-Dichlorobenzene	20	1.0	20.00	0	99.3	70	130			
A-Dichloritian/www.	20	1.0	20,00		99.1	67.2	444			
Contractioners	23	1.0	20.00	0	115	60	140			
,1-Dichloroethane	22	1.0	20.00	0	109	52.6	157			
1-Dictionalitient	21	1.0	20.00	0	108	70	1.50			
2-Dichlotompane	22	1.0	20.00	0	111	63.7	1.55			
.3-Dichlotoprobene	20	1.0	20.00	0	100	70	130			
2-Gichioropropane	23	20	20.00	ų	113	70	730			
Dunlifiers:	_	_		-		-				
· Value excepts Millimate	. Loniminani	Louis		H Analys	detected i	the antocra	tel Menod Itta	nič		
D. Sample Dilused Due in A						rotation range		-		
fl Holding times for prepar		is mende	à.			relow quanti			Page 4 o	617
ND Not Detected at the Reps					pll Not In		and the second		1 age 4 0	
PQL Practical Quanitative Lin					ng Detecti					
S % Recovery outside of n		tion or m	viria				is out of limit as	specified		

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Souder, Miller and Associates

Clicat:

San	ple ID FB	(Samp)	Type: M	DLH		Tentos	NR B	PA Method	A2008: YOL	ATTLES		
Qie	ni ID: PBW	Bato	ND R	47083		Run	No: V	7085				
Prep	Date:	Analysis (Date: 1	1/13/2017		Seq	No: 1	502370	Units: µg/L			
Ania	ly64	Hinuk	FOL	SPK value	SPK R	Wal 1	REC	LowLimit	HighLimit:	S-RPD	RPDLimit	Qual
Methy	ters-outyr ether (MTBE)	ND	1.0									
1241	Trimethylbercene	ND	1.0									
3.57	Trimethytherizene	ND	1.0									
1,2-01	chioroethane (EDC)	ND	1.0									
1,2-Di	bromoethane (EDB)	ND	1.0									
Nutio	halene	ND	2.0									
Mat	which philosofield	ND	4.0									
2-Meil	in/inaph/halenii	ND	4.0									
Aalila		ND	10									
Bierro	ACC N	ND	1.0									
Bromo	dichloromethane	ND	1.0									
Bromo	Norm	ND	1.0									
Bromo	methane	ND	3.0									
2-Buta	enone	ND	10									
Carbo	n disulfide	ND	10									
Carbo	n Tetrachloride	ND	1.0									
Chiero	Amicone	ND	5.0									
Chief	attaile.	ND	2.0									
Chloro	not	ND	1.0									
Chloro	melhane	ND	3.0									
2-Chio	vololuene	ND	1.0									
I-Chio	rotoluene	ND	1.0									
15-1,2	DCE	ND	1.0									
sis-1,3	-Dichloropropene	ND	1.0									
1,2-Di	bromo-3-chloropropane	ND	2.0									
Dibron	nochioromethane	ND	1,0									
Diliron	CATHON BOARD	ND	1.0									
1,2-Di	chiorobenzene	ND	1.0									
1,3-Dk	chlorobenzene	ND	1.0									
1,4-01	dikediterstene	ND	1,0									
Dictio	rodificoromethane	ND	1.0									
	chloroethane	ND	1.0									
	discettere	ND	1,0									
	UNioropropana	ND	3.0									
	chicropropaw	ND.	5.0									
	devaporene	ND	2,0									
	thioroixideme	ND	1.0									
	hiorobubadiene	ND	1.0									
2-Hex	and/re	ND	10									
Quali	flers:					-			_	-		_
+	Value exceeds Maximum	Coursel	Livel.		H A	malwie des	i letter	n the assessia	and Avenued Bilay			
.0	Samele Drived Dur un A							litation range				
11	Holding times for prepar		i macond	6d				clims guantit			Page 6 0	612
ND	Not Detected at the Repo					ample pH					culle a o	
PQL						eporting I						
s	% Recovery outside of n		tion or "	atrix					is out of limit as	specified		

Wess 1711604

14-Dec-17

Clients

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc. Souder, Miller and Associates Potter CS Project: Sumple ID RB TestGode: CPA Nethod 82888 YOLATILES SameType- MBLK

WUE. 1711506

14-Dec-17

Sumple D RB	Samp	Type N	BLK	3	catGode; 1	PA Method	STOR SOUTH	ATILES		
Chief IC PBW	Balo	h (D R	47088		RunNo:	7986				
Prep Date:	Analysis I	Date: 1	1/13/2017		SeqNo:	1502370	Units: µg/L			
Analyse	Reutil	POL	SPK value	SPK Ref A	W WREC	Linkimit	HighLimit	MRPD	RFOL mit	Gual
Isopropyloenzene	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-Propyfontative	ND	1.0	6							
weetender Street	ND	1.0	1							
Styrene	ND	1.0	(C) - 1							
tert-Butyloenzene	ND	1.0	1.1							
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachioroethene (PCE)	ND	1.0	0.00							
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0	6 N							
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1+Truthlersleitvane	ND	1.0	1							
1.1.2-Tourtamonitone	ND	5.0								
Trichloroethene (TCE)	ND	1.0	10.00							
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0	10.0							
Vivyi chloride	ND	1.0								
Xylėnus, Tatai	ND	1.5								
Surr: 1,2-Dichlomethane-d4	12		10.00		116	70	130			
Sur: 4-Bromafili, orobenzene	10		10.00		103	70	130			
Sat: Distanchuperperhane	42		10.00		116	78	130			
Sitt: Toluena-dit	9.9		10.00		99.0	70	130			
Sampio (D 1711506-001ame	Samu	ype M	8		ani/Ciste E	PA Method	12603: VOL	ATTLES		
Chint ID. Potter BGT	Batc	ND: R	47085		RunNo:	7088				
Prep Date:	Analysis C	Date 1	1/13/2017		SegNo: 1	502383	Units: µg/L.			
Amaiye	Result	MUL	SPR, value	SPR HM V	N TAREC	LowAimil	HighLimit	WRPD	RPOLIMI	Quei
Electrica.	6.Z	0.20		0.3264	122	70	130	-		-
Tolvini	4.4	0.20	4.000	0.3204	102	70	130			
Chlorobenzenw	4.1	0.20		0.03840	101	76	130			
1,1-Dichloroethene	5.3	0.20		0	132	70	130			s
Trioniomeiherne (TCE)	4.8	0.20		0.03720	118	70	1.00			
	2.4		2.000		122	70	130			
Sam 1,5 Dichametram-d4										
Qualifiers:	Contaminant	Cond.			to detected	in the seasons	and Mathead Man	de		
Qualifiers: • Value exceeds Maximum		Level					led Method Bla	nk		
Qualifiers: * Value exceeds Maximum D Sample Diluted Due to M.	atrix			E Valu	e above quar	titation range		nk	Dama 7	c13
Qualifiers: • Value exceeds Maximum D Sample Diluted Due to M. II Holding times for prepara	atrix sort or antilysi		ad	E Valu I Amai	e above quar	ititation range below quanti		nk	Page 7 o	£12
Qualifiers: * Value exceeds Maximum D Sample Diluted Due to M.	atrix not te antilysi ting Limit		ad .	E Valu I Anal P Seam	e above quar	titation range below quantii Range		nk	Page 7 o	£12

QC SUMMARY REPORT WERE 1711504 Hall Environmental Analysis Laboratory, Inc. M-Dec-17 Client Souder, Miller and Associates Project: Potter CS Sample ID 1711686-001ama Samultyno: MS Batch ID R47098 TentOrian EPA Method 80000: YOLATILES Classif (D: Potter BGT Runtio: 47088 SeaNo: 1502383 Units: µg/L Prep Dalit Analysis Date: 11/13/2017 Analyle Hex.II PQL SPK velue SPK Kaf Val KREC LowLinit HighLinit SRP0 RPDLinit Quali Surr.4-enontkorostenze 2.1 2.000 103 70 130 500 Serr.5-enontkorostenze 2.4 2.000 122 70 130 500 Analyte Surr. 4-Bromoliuoropenzene Sample ID 1711506-001amed SampType: MSD TasiCode: EPA Method 82608: VOLATELES Client ID: Potter BGT Balch ID R47088 RanNo: 47688 Analysis Date 11/13/2017 Prep Cate; Shinko 1502384 Lines Jugit Pressure Tot, SAUTY Source Source Line: <thLine:</th> Line: <thLine:</th> <thLine:</th> Analyto Benzene Tokane Ptioenlanne 1,1-Dicklontellane RPDLimit 20 %RPD 6.64 6.18 5.75 9.76 7.25 0 114 70 95,4 70. 26,7 76 120 70 101 70 101 70 120 70 97.6 70 130 130 130 130 130 130 130 130 20 20 20 20 0 1,1-Dictionetwere Trothonathene (TCb) Burt 1,2-Dichlaroathame-dk Surt 4-Bromofluoroberzene Surt Dibromofluoromethane Surt Toluene-d8 0 ň

-		0.040	CHOOT HE	ory, Inc.	-					94-11
Client: Souder, Project: Potter (Miller and S	Associ	ates							
Sample ID Ico-34073	6emp'	Type: Lo	20	Tea	stCode: E	PA Method	0270C. PAN			-
Client ID: LCSW	Bato	h ID: 34	973	1.1.1	RunNo: 4	7113				
Prep Date: 11/14/2017	Analysis I	Date: 1	1/14/2017		SeqNo: 1	503513	Units: µg/L			
Analyte	Result	POL	SPK value	SPK Rel Val	MREC	LowLinit	HIGHLINK	%RPD	RPOLINE	Qual
Naprimaieria	16	0.50	20.00	0	79.4	28.6	113			-
1-Methylnaphthalene	16	0.50	20.00	0	79.5	27	113			
2 Mathyland Roame	16	0.50	20.00	0	77.0	28.3	112			
Acertaphitrylene	10	0.50	20.00	σ	77.5	30.2	114			
Acenaphthene	16	0.50	20.00	0	80.1	35.6	116			
Flugament	10	0.50	20.00	0	81.2	36.4	116.			
Practition	18	10,50	20.00	U	91.0	42.3	218			
Aviimome	10	0.50	20.00	0	90,0	42.2	317			
H0:Sraillinen	18	0.50	20.00	0	90.7	42,5	118			
Pyrene	17	0,50	20.00	0	B7.4	40.6	121			
Benz(a)anthracene	17	0.50	20.00	0	84.6	43	118			
Chrysene	17	0.50	20.00	0	82.7	39.4	119			
Benzo(b)/luoranthene	18	0.50	20.00	0	88.9	47.8	115			
Benzokillastanthene	12	0.50	20.00	0	85.1	40.5	120			
Bonzolajpyrono	37	0.60	20.00	0	84.5	41.5	115			
Dibenz(a,h)anthracene	18	0.50	20.00	0	87.7	48.6	115			
Bertzpig hubunykere	18	0.50	25.00	0	92.1	42	119			
intent/1_11-of pyrene.	18	0.50		.0	92.2	42.0	418			
Sort N-hexadecare	75		87.60		86.1	34.2	111			
Sur: Benzo(ejpyrene	18		20.00		89.2	39.3	124			
Sample ID Ion8-34973	Samo	YUN LO	280	Ter	Code F	PA Malhod	8270C: PAH			
Ciloni ID: LOSSU2		0 (0) .54			Runtika d					
Prep Date: 11/14/2017	Acutype 0	iste: t	1/14/2017		SigNo 1	603514	Units' No/L			
Analyle	Result	POL	SPK value	SPK Ref Val	KREC	LowLine	HighLimit	WRPD	RPDLimit	Quilt
Maphetalisme	10	0,60	.20.00	0	77.1	28.6	113	2.94	40.7	-
t-Memymopritheiene	15	0,50	20.00	0	75.1	27	115	5.09	30,4	
2-Methylnaphthalene	15	0.50	20.00	0	72.8	26.3	112	5.61	25.5	
Actesuidityline	15	0.50	20.00	n.	78.3	36.2	114	1.56	34.1	
Armopphilumia:	16	0,50	20.00	0	75.8	35.6	110	5.62	82.4	
Flicence	10	0.50	20.00	0	77.8	38.4	115	4.28	28	
Pharondryman	17	0.50	20.00	0	85.3	42.3	115	B.47	37.4	
Arministeria	11	0.50	20.00	0	83.3	42.2	117	7.75	36.2	
Plucrenthone	17	0.50	20.00	Ó	85,6	42.5	118	5.79	26.6	
Fyrmie	17	0.50		π	83.7	40.8	121	4.32	26.8	
Benetin land wacene	17	6.50	20.00	0	83.5	43	110	1.31	25.1	
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 Qualifier:
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 Value Execute Maximum Containing Level.

 D
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 II
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 ND
 Not Democrd at the Reporting Limit:

 ND
 Proceeding Quantitative Limit

 S
 % Recovery outside of range due to dilution or matrix.

Qualifiers:

- H Analyte detected in the associated Mikined Hank
 E. Value above quantitation straps
 / Analyte detected between quantitation timus
 P. Sample get byte & Reager
 RJ. Reporting Detection Limit
 W. Sample container temportance is out of limit as specified Page 8 of 12

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NA M

Yes - No -

Oseo | Vis: 1 | ebbait | Phone | Fax | In Person

Special Handling (if applicable) 16, Was client notified of all discrepancies with this order?

Parson Notified:

Regarding: Client Instructions 17. Additional remarks:

18. Societ Information <u>Cooler No. Temp *C Condition Seal lenset</u> Seal No. <u>Deal Date</u> Signal By 1 10 Good Yes

By Wilom

Page 1 of 1

 Qualifier:
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 PL
 Received protection Limit

 5
 % Recovery outside of range due to dilution or matrix
 W
 Sample container temperature is out of limit as specified
 Page 12 of 12

11-17-17

Matternoord Matternoord Immonology Contained Immonology Second Immonology <th>Free Bagacuroof A Baseretz D D D D D D D D D D D D D D D D D D D</th>	Free Bagacuroof A Baseretz D D D D D D D D D D D D D D D D D D D
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State of New Mexico

Project: Kuu CS ab (D), 1710E55-001	Matrix:	AQUEOUS		Collectio		12 BG1 /26/2017 2:30:00 PM /27/2017 8:90:00 AM	
Analyses	Result	PQL (Juni	Units	DF	Date Analyzed	Butch
EPA METHOD 7470: MERCURY						Analyst	JLF
Mercury	NO	8 00020		mal	1.1	11/W2017 5:00:00 PM	34923
EPA 50108: TOTAL RECOVERABLE M	FTALS					Analyst	ELS.
Amenic	ND	5.0		mal		11/8/2017 8:57:26 AM	MEIE
Banum	ND	100		mg/L		11/0/2017 0:57.20 AM	34616
Cadmium	ND	1.0		mg/L	1	11/6/2017 8:57:26 AM	34816
Chromium	ND	5.0		mg/L		11/6/2017 8:57:26 AM	34816
Lead	ND	5.0		mal		11/6/2017 8:57:26 AM	34816
Salamiarri	ND	1.0		mg/L	1	11/6/2017 8:57:26 AM	3481
STAR	ND	5.0		mg/L		11/6/2017 B-57/26 AM	3481
	144	4.9		. and the			
EPA METHOD 8270C: PAHS						Anatyst	
Naphthalene	ND	25	D	ug/L	10	11/14/2017 12:04:21 Pt	
1-Methylnaphthalene	ND	25	D	µg/L	10	11/14/2017 12:04:21 PI	
2-Methylnaphthalene	ND	25	D	µg/L	10	11/14/2017 12:04:21 PI	
Acenaphthylene	ND	25	D	µg/L	10	11/14/2017 12:04:21 PI	
Accompletion	ND	25	D	H0/L	100	11/14/2017 12:04:21 PI	
Flatener	ND	25	D	Mar	- 10	11/14/2017 12:04:21 Pt	
Prestartfrees	ND	50	D	have	10	11/14/2017 12:04:21 PF	
Avanneone	ND-	25	D	mby.	10	11/14/3017 13:04:21 PI	
Filuaranshima	ND	25	п	Pour -	10	11/14/2017 12/04:21 PI	
Pyrene	ND	25	D	hau	10	11/14/2017 12:04:21 PI	
Benzija jandhracene	ND	25	D	P9/L	10	11/14/2017 12:04:21 PI	
Chrysene	ND	25	D	µg/L	10	11/14/2017 12:04:21 PI	
Benzou)/Susweithere	ND	25	D	HO/L	10	11/14/2017 12:04:21 PI	
Bevizojik)/Ruorant/Ineria	ND		U	POL	10	11/14/2017 12:04:21 Pt	
Benzo(a)pyrene	ND	25	D	µg/L	10	11/14/2017 12:04:21 PI	
Ditamenta (in fix) involvementaria	ND	25	D	w0/L	10	11/14/2017 12:04:21 Pt	
Bertroid hilberviene Indono(1,2,3-cd)pytene	ND	35	10	-of	10	11/14/2017 12:04:21 P	
	ND	25	D	H9/L	10.	11/14/2017 12:04:21 PI	
Sur: N-nexadecane	4	20.3.150			10	11/14/2017 \$2:04:21 Pt	
Surr: Benzo(e)pyrene	0	11.3(169)	1611	%Rec	10	11/14/2017 12:04:21 PI	
EPA METHOD 8260B: VOLATILES						Anaiyst	
Berttene	240	50		191	50	(0/31/2017 6:20:00 AM	
Task tarres	470	50		+9L	50	15/91/2017 6:20:00 AM	
Ethylbenzen	ND	50		Let.	50	10/31/2017 5:20:00 AM	
Molhyl tart-builyt etiluer (MTBE)	ND	80		HAL	80	10/31/2017 5:20:00 AM	
1.2,4-Jinmathylaecasion	HD.	50		Hat	BDX.	10/31/2017 6:20:00 AM	
1,3,5-Trimsthysacozoni	ND	60		P\$PL	56	10/31/2017 6:20:00 AM	
1.2-Dictionant/mme (EDG)	ND	20		hair	202	10/31/2017 6:20:08 AM	44873
Rater to the QC Summary report as	id sample lo	in checklist	for il	agged Q4	data and p	reservation informatio	n i

Non Des ed as the Hes

- PQL Practical Quantitative Limit S % Recovery outside of range due to dilution or matrix

- uriting Lieun

P Sample pH Nui In Bange
 RL Reporting Detection Limit
 W Sample container temperat

re is out of limit as sp

HALL ANALYSIS November 16, 2017

Ashlev Maxwell Souder, Miller and Associates 401 W. Broadway Farmington, NM 87401 114.: (505) 325-5667 FAX (505) 327-1496

RE: Kutz CS

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/27/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited Inters were analyzed according to Erry proceedings or equivalent. To access our accreding (losh please go to <u>www.hallervironmental.com</u> or the static specific were 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 Coatody 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 uncessary, 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, anless 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 clarifica

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Athuquerque, NM 87109

Hall Devicemental Analysis Labore antis Hanki 1000yuungoo, NM 87400 782, 101-345-3473 FAR 103-343-4400

OrderNo.: 1710E55

Hall Environmental Analysis	Labora	ttory, Inc.			Analytical Report Lub Order 1710E55 Date Reported: 11/16/20	n7
CLIENT: Souder, Miller and Assocrates Project: Kuiz (S Lub ID: (710E55-00)	Matrix			Date: 10	19 BGT 26/2017 2:50:00 PM 27/2017 8:00:00 AM	
Analyses	Reult	PQL Qual	Units	DF	Date Analyzed	Bate
EPA NETHOD 82608: VOLATILES					Analyst	MAA
1.2-Diterationiliante (EDB)	ion.	14	ugli	50	10/31/2017 6 20:00 AM	
Naprinalene	ND	100	UDE	50	10/31/2017 5 20:00 AM	
1-MARTANE AND AND AND AND AND AND AND AND AND AND	ND	200	ugn.	50	10/31/2017 6:20:00 AM	
2-Matter-America/Webme	ND	200	ugit	50	10/31/2017 6:20:00 AM	
Acetone	ND	300		50	10/31/2017 6:20:00 AM	
			HOL			
Respective and the second seco	ND ND	50	hðyr	50	10/31/2017 6:20:00 AM	
Pressioneneounisederes	, ND	50	µg/L	50	10/31/2017 5:20:00 AM	
Bromolorm	ND	-90	hbir	50	10/31/2017 6/20:00 AM	
Bicaucenatium	40	1.93	ugit	50	18/91/2017 6:20:00 AM	
2-Biolanone	ND	500	ug/L	-50	10/31/2017 5:20:00 AM	A457
Carbon disution	ND	300	ADV	50	10/31/2017 0:22:00 AM	A467
Carbon Tatnumlionillo	ND	50	Jug/L	50	10/11/2017 0.20:00 AM	M57
Chivobergene	ND	50	HOL	50	10/31/2017 6:20:00 AM	A467
Chluroethane	ND	100	HQ/L	50	10/31/2017 6:20:00 AM	
Chloroform	ND	50	µg/L	50	10/31/2017 6:20:00 AM	
Chlingmallimum	ND	150	Hol.	50	10/31/2017 6:20:00 AM	
2 Chicrotologung	ND-	50	JOL	50	10/31/2017 6:20:00 AM	
4-Chiorotoluene	ND	50		50		
se-L20CE			ug/L		10/31/2017 6:20:00 AM	
	ND	50	Ug/L_	-60	10/31/2017 0.20:00 AM	
on-1.8-Dicriderepene	ND	50	+iB/L	100	10/31/2017 6/20:00 AM	
1,2+Dibromo-3-chloropropane	ND	100	Ng/L	50	10/31/2017 6:20:00 AM	
Opput the Contraction of Contractio	NU	DAJ.	Por-	60	10/31/2017 0:20:00 AM	
Dibrumomolhan	ND	60	MBN	60	10/31/2017 8:20:00 AM	
1,2-Dichlerobscasse	ND	50	AgA.	80	10/31/2017 R-20.00 AM	A467
1,3 Clatilorobanzona	ND	50	µ9/L	50	10/31/2017 0.20.00 AM	A407
1,4-Dichlorobenzene	ND	50	µg/L	50	10/31/2017 6:20:00 AM	A467
Oldviordifusionaltane	ND	60	HOL	50	10/31/2017 6:20:00 AM	A467
1.1-Diébitrussitimotor	ND	50	Hall	- 55	10/31/2017 6 20:00 AM	4487
1.1-Dichloroatheno	ND	50	MD/L	50	10/31/2017 5:20:00 AM	
T-0-1800MICOPIDDWINE	ND	50	104	50	10/31/2017 5/20 00 AM	
1.3-Elichilevopropane	ND	307	unt.	50	10/31/2017 6 20/00 AM	
2.2-Dichissumpperm	ND	100		50	10/31/2017 5/20:00 AM	
1,1-Dichloropropene			HO/L	50		
Hexachlorobutadiene	ND	50	pgiL	50	10/31/2017 6:20:00 AM	
2-Hexanone	ND	50	H9/L		10/31/2017 6:20:00 AM	
		500	ug/L	50	10/31/2017 6:20:00 AM	
Isopropylbenzene	ND	50	HOL	50	10/31/2017 6:20:00 AM	
4-leopropylioluena	ND	50	Lar	50	10/31/2017 6:20:00 AM	
A-Malbyl-2-pimilancine	ND	300	HDA	-50	10/31/2017 5 20:00 AM	
Mathylano EMante	ND	100	HeA	10	10/31/2017 6:20:00 AM	A487
Refer to the QC Summary report and	sample log	gin checklist for f	lagged QC a	lata and p	reservation information	s
Qualifiers: * Value exceeds Maximum Con		á.			he associated Method Blank	
D Sample Diluted Due to Matrix			E Value ab	ove quantita	ation range	
H Holding tosses fin preparation	re analysis ca	colifeit	J Amilyan	inserted hele	ne quantitation limite Plage	2.0
SD Not Detremel at the Reporting	Lint		9 Sample p	H Not In R.	inge rage	1 m
PQL Practical Quanitative Limit					Limit	

ı.

Hall Environmental Analysi	s Laboratory, Inc.		Analytical Report Lob Order 1710K55 Data Reported: 11/16/201=
CLIENT: Souder, Miller and Associates		Client Sam	ale ID: Kuiz BGT
Project: Kuz CS		Collection	Date: 10/26/2017 2:30:00 PM
Lah ID: 17(0E55-00)	Matrix: AQUEOUS	Received	Date: 10/27/2017 8:00:00 AM

Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD STREE VOLATILES					Aminiyat	RAA
n-Bunilou un	MD.	150	and in	30	10/31/2017 E 20:00 AM	A4675
n-Propyibertzens	ND	50	UQ1	50	10/31/2017 8:20:00 AM	A4675
seo-Butylounzerre	ND	50	µg/L	50	10/31/2017 6:20:00 AM	A4075
Styrene	ND	50	ugit	50	10/31/2017 6:20:00 AM	A4675
text-Butylberczenc-	ND	50	. Ago.	.50	10/31/2017 6:20:00 AM	A4075
1.1.1.2-Tetrachicopothype	- ND	50	HOL	50	10/31/2017 6:20:00 AM	A4675
1.5.2.2-Tetrachiorcethare	. ND	100	Jou	50	10/31/2017 6:20:00 AM	A4675
Terrachloroetherie (PCE)	ND	50	JOL	50	10/31/2017 6:20:00 AM	AHE75
trans-1.2-OCE	ND.	. 60		.60	10/01/2017 6:20:00 AM	A4879
tratu-1,3-Dictriordpropene	ND	50	up/L	60	10/31/2017 6:20:00 AM	A487
1,2,3-Trichlorobenzene	ND	50	HgrL	50	10/31/2017 6:20:00 AM	A4675
1,2,4-Trichlorobenzene	ND	50	ug/L	50	10/31/2017 6:20:00 AM	A4675
1,1,1-Trichloigelbane	ND	50	upl	-50	10/31/2017 6:20:00 AM	A4875
1,1,2-Trichturgethane	ND	50	PUL	50	10/31/2017 6.20.00 AM	A4070
Trichloroethene (TCE)	ND	50	ug/L	50	10/31/2017 6:20:00 AM	A4675
Trichlorofluoromeinana	ND	60	uol.	60	10/31/2017 6/20:00 AM	AAB7
1,2,3-Trichloropropunu	NO	100	LOL	60	10/31/2017 6.20.00 AM	A4873
Vinyl chloride	ND	50	LOL	50	10/31/2017 6:20:00 AM	A4675
Kylenes, Total	210	75	Jan	80	10/31/2017 @ 20.00 AM	AHE73
Surr 1,2-Dichloroetherei-d4	66.2	70-130	%Rec	60	10/31/2017 @30.00 AM	A4671
Surt: 4-Biomoffuentspergreve	59.2	70-130	"SeFlec	50	10/31/2017 6:20:00 AM	A4678
Sun: Dibromofluoromethane	103	70-130	%Rec	50	10/31/2017 5:20:00 AM	A4670
Surr: Toluene-d8	97,4	70-130	%Rec	50	10/31/2017 6:20:00 AM	A4670

 Barfer to the QC: Summary reports and sample legin shockhirts first flagged QC dust and preservation information:

 Quilifier:
 *
 Value exceeds Maximum Communities Level.
 B
 Analyse detected in the associated Stellood Black

 D
 Sample Dilated Due to Marix
 B
 Analyse detected in the associated Stellood Black

 II
 Fielding times for preparision or applys strended
 B
 Analyse detected in the associated Stellood Black

 StD
 No benerical an Engenerical Earlier
 B
 Analyse detected in the associated Stellood Black

 FDL
 Franciscul Qualificative Unitit
 B
 Analyse detected in the stepse in the st

	onnien	tai Anai	y 515 1	aborat	ory, Inc.						16-Nov-17
Client.	Souder	, Miller and	Associa	ties					-		
Project:	Kutz C										
Sample (C. 100	my lusz -	Sampl	you LC	3	The	Guar E	PA Mathod	AZEOB: VOL	ATTLED		
Climit ID: LCS	W	Bald	TIT A	6753		anhe a	0753				
Prep Date:		Analysis D	Date: 10	W31/2017		SegNo: 1	489928	Units: µg/L			16.1
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bertzinte		20	1.0	20.00	0	100	70	130			
Toblehe		19	1.0	20.00	0	04.5	70	130			
Chiorobenzene		19	1.0	20.00	0	96.0	70	130			
1,1-Dichlorcethere		22	1.0	20.00	0	109	70	130			
Trichloroethene (TCI		20	1.0	20.00	0	98.0	70	130			
Sur: 1,2-Dichloror		10		10.00		102	70	130			
Sur: 4-Bromofluo		9.9		10.00		98.8	70	130			
Surr: Dibromofluor Surr: Toluene-d8	omethane	11		10.00		106	70	130			
Suff: Totuene-05		9.8	_	10.00		97.5	70	130	_		
Sample ID rb2			ype: ME		Tes	tCode: El	PA Method	8260B: VOL	ATILES		1000
CHAMIN: 684	¥.	DMO	h IEZ AM	0783		RinNo 4	6753				
Prep Dista		Analysia E	sie 1	7165/1428		Son/No. 1	482822	Usim: pp/L			
Analyle		Besult	POL	SPK webs	RDK Red Val	AREC	I saw unit	Highi Invit-	-NATERIA	2001 201	(Scan)
Benzene		ND	1.0								
Toluona		ND	1.0								
Ethylbanzena		ND	1.0								
Methyl tert-butyl ethe		ND	1.0								
1,2,4 Trimothylbonzi 1,3,5 Trimethylbenzi		ND	1.0								
1,3,3-Thmenybenzi 1,2-Dichloroethane (ND	1.0								
1,2-Dihmmathana		ND	1.0								
Vaporthaline		NO	2.0								
Mellymachinalen		ND	4.0								
Alumyin and allow		ND.	3.6								
Acetone		ND	10								
Dromobenzene		ND	1.0								
Bromodichiorometha	ne	ND	1.0								
Bramoform		ND	1.0								
Bromomethane		ND	3,0								
2-Butanone		ND	10								
Carton and de		ND	10								
Carbon Talrachikina		ND	1.0								
Chlorobenzene		ND	1.0								
Chloroethane		ND	2.0								
Chioroform Chioromethane		ND ND	1.0								
2 Chlorotolucno		ND	3.0								
L www.orosonuchd		ND	1.0								
Qualifiers:			-								
	ah Maximum	Conaminant	(cuil		B Analyse	deternal la	the associa	red Martinif Bile	nà		
	med Dise to M						indica marga				
		ston or analysi	a excende	a			clow quantit			Page 4 o	C11
ND Nos Delecte	d at the Repo	eung Limn				pH Not In				-Be a d	
POL Practical O	panitative Lim				RL Reporti						

	MARY REPORT	boratory, Inc.	WOr	17102.53 15-Nov-17
Client. Project:	Souder, Millet and Associat Kutz CS	s		
Ownple (0 102	SameTyper MB	K TosiGude EPA Mithod 62608: VOLATILES		
Glient ID: PBW	Baich ID: A4	55 RueNci 46763		

character to APX	2-0.01	31.00	ant an	100		A De construire	956681 AOF	and the local diversion of		
Client ID: PBW	Baid	A ID. A	40755	1.0	Runhe a	6763				
Prep Date:	Analysis D	Date: 1	0/31/2017		SeqNo: 1	489929	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%RFC	Low imit	HighLimit	%RPD	RPDLimit	Qual
Chicrololuene	ND	1.0								
is-1.2-DCE	ND-	1.0								
is-1,3-Dichioropropena	ND	1.0								
,2-Dibromo-3-chiloropropane	ND	2.0								
Doromochloromethane	ND	1.0								
Distornomethane	ND	1.0								
2-Dichlorobenzene	ND	1.0								
.3-Dichlorobenzene	ND	1.0								
.4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1-Dichloroethane	ND	1.0								
,1-Dichloroethene	NU	1.0								
2-Dichloropropane	ND	1.0								
.3-Dichloropropane	ND	1.0								
2-Dichloropropenc	ND	2.0								
1-Dichloropropene	ND	1.0								
fexachlorobutadiene	ND	1.0								
Hexanone	ND	10								
scoropyBerthene	ND	1.0								
i-isopropyfloluene	ND	1.0								
-Methyl-2-pentanone	ND	10								
Aethylene Chloride	ND	3.0								
Butylbenzene	ND	3.0								
-Propylbenzene	ND	1.0								
ac-Butylbenzene	ND	1.0								
ityrene	ND	1.0								
ert-Butylbenzene	ND	1.0								
1.1.2-Tektchkobettune	ND	1.0								
122/Tetrachiosoethune	ND	3.0								
etrachloroethene (PCE)	ND	1.0								
rams-1,2-OCE	ND	1.0								
rans-1,3-Dichloropropene	ND	1.0								
2.3-Trichlorobenzene	ND	1.0								
2,4 Triphlorobenzene	ND	1.0								
,1,1-Trichloroethane	ND	1.0								
1.2-Trichloroethane	ND	1.0								
ichloroethene (TCE)	ND	1.0								
ichicrofluoromethane	ND	1.0								
,2,3-Trichloropropane	ND	2.0								
allo-monorohiohalle	ND	2.0								
Qualifiers:										
* Value exceeds Maximus	m Contaminant I	Level.		B Analyti	e detected i	n the associat	ted Method Bla	nk		
D Sample Diluted Due to I				E Value	above quan	titation range	C			
14 Holding times for prepa		s insceed	at.	J Anatyo	e detected b	selow quantit	ation limits		Page 5 il	611
ND - Not Deseased at the Kop	naving Limit.			ir sample	t pits pice to	stange			1.041.010	
PUL Practical Quantitative Li	rest.			RL Report	ing Detrets	timit in				

QC SUMMARY REPORT

WON. 1710E55 Hall Environmental Analysis Laboratory, Inc.

Client: Soud Project: Kutz	er. Miller and CS	Associa	ues							
Servie ID 162	8mm/	No Mi	BLK.	Tes	Gath: E	PA Method	62608: VOL	ATILES		
Client (D) PBW	Betc	ID A	6753		Aurio 4	6753				
Prep Date:	Analysis (ate: 1	0/31/2017	5	SeqNo: 1	489929	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	15								
Surr: 1,2-Dichloroethane-d4	9.9		10.00		99.4	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		97.5	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Sur: Toluene-d8	9.9		10.00		99.3	70	130			

QC SUMMARY REPORT

16-Nov-17

Hall Environmental Analysis Laboratory, Inc.

Sample ID Jes-34789	Same	Type: LC	÷.	Tan	Code E	PA Method	8276C: PAH			
Client ID: LCSW		h ID: 34			tunNo: 4					
Prep Date: 11/2/2017	Analysis (SeqNo: 1		Units: µg/L			
Analyte	Result	POL	SPK value		%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	16	0.50	20.00	O D	79.9	28.6	113	7690	POPULIMI	Qua
-Methylnaphthalene	14	0.50	20.00	0	67.9	27	113			
2-Methylnaphthalene	15	0.50	20.00	0	73.2	26.3	112			
-cenaphthylene	17	0.50	20.00	0	83.3	36.2	114			
konaphthene	18	0.50	20.00	0	88.7	35.6	116			
luorene	18	0.50	20.00	0	89.0	38.4	116			
henanthrane	18	1.0	20.00	0	88.8	42.3	118			
Inthracene	17	0.50	20.00	0	86.9	42.2	117			
luoranthene	18	0.50	20.00	0	90.1	42.5	118			
Avrene	17	0.50	20.00	0	84.2	42.5	121			
Benz(a)anthracene	20	0.50	20.00	0	84.Z 97.7	40.8	121			
Singalanimadana	20	0.50	20.00		97.7	43	118			
Jenzolb)/fuoranthene	19	0.50	20.00	0	93.3	47.8	119			
Renzolk/Nuoranthenie	19	0.50	20.00	0	93.3 95.6	47.8	115			
Bertirojajoyenta	10	0.50	26.00	B	92.6	40.5	115			
Scienzia hianitescine	18	0.50	20.00	D	80.5	46.6				
Kenzola Alamonia							115			
	18	0.50	20.00	0	90.8	42	110			
Sur: N-hexadecane	18	0.50	23.00	1	87.7	42.5	118			
Sun: N-hexadecane Sun: Benzo(e)pyrene	17		87,60		81.3	34.2	111			
Ser Dermite Manie	-17		20.00	_	85.1	39.3	124	_		_
Sample IU load-34789	Samp	yoe LC	SD	Ten	Cote E	PA Method	B270C PAH	-		
Client ID: LCSS02	Buto	h 1D: 34	760	P	iunNo: 4	7113				
Prep Date: 11/2/2017	Analysis (Date: 1	1/14/2017	5	SegNo: 1	603163	Units: uo/L			
1.11.1						303133				
Anante	Result	POI.	SPK WANK	SPIC Rel Val	MREC	LowLimit	HighLimit	TERPD	RPOLimit	Qual
	Result 17	PQL 0,50	SPK value 20.00	SPIC Rel Val	MREC: 82.7			BRPD 3.44	RPOLimit 40.7	Qual
lagovinalism					101100	LowLimit	HighLimit			Qual
Naprivalene Mart yn april wend	17	0,50	20.00	U	82,7	La#Limit 28,6	HighLimit Eth	3.44	40.7	Qual
laprinalere Macryalapril wend Methylnaphthalere	17 17	0,50	20.00 20.00	0 0	82,7 82,8	La#Limit 28,6 27	HighLimit 113 113	3.44 19.8	40.7 38,4	Qual
1 Mart ya april wano 2 Methylnaphthalene Acenaphthylene	17 17 15	0,50 0,80 0.50	20.00 20.00 20.00	0 0	82,7 82.8 75.0	La#Limit 28,6 27 26.3	HighLmit 113 112	3.44 19.8 2.43	40,7 38,4 25.5	Qual
Nazirivaleni 1-Mari ya aptiti seno 2-Mathylnaphthalene Acenaphthylene Acenaphthere	17 17 15 16	0,50 0,80 0,50 0,50	20.00 20.00 20.00 20.00	0 0 0	82,7 82.8 75.0 82.0	LowLimit 28,6 27 26,3 36,2	HighLmit 113 113 112 114	3.44 19.8 2.43 1.57	40,7 38,4 25,5 34,1	Qual
Narrivalene 1 Mart je april: sene 2 Methylnaphthalene Acenaphthylene Acenaphthene Fluorene	17 17 15 16 17	0,50 0,80 0.50 0,50 0,50	20.00 20.00 20.00 20.00 20.00	0 0 0	82.7 82.8 75.0 82.0 84.5	LowLimit 28,6 27 26,3 36,2 35,6	HighLmit 113 113 112 114 116	3.44 19.8 2.43 1.57 4.85	40.7 38.4 25.5 34.1 32.1	Qual
Nacrivialene 1 Macrivinacintinaene 2 Methylvachthalene Acceaphthene Acceaphthene Macraphthene Macraphthene Marranitirene	17 17 15 16 17 17	0,50 0,50 0,50 0,50 0,50 0,50	20.00 20.00 20.00 20.00 20.00 20.00	0 0 0 0	82,7 82,8 75,0 82,0 84,5 84,7	LawLimit 28,6 27 26,3 36,2 35,6 38,4	HighLimit 113 113 112 114 116 116	3.44 19.8 2.43 1.57 4.85 4.95	40,7 38,4 25,5 34,1 32,1 28	Qual
Azornalene Aker unschlusene Sversphittylene scensphittylene Susrene Transantreme Votracene Votracene Jourchtens	17 17 15 16 17 17 17	0,50 0,80 0,50 0,50 0,50 0,50 0,50 1,0	20.00 20.00 20.00 20.00 20.00 20.00 20.00	0 0 0 0 0 0	82,7 82.8 75.0 82.0 84.5 84.7 83.3	LawLimit 28,6 27 26,3 36,2 35,6 38,4 42,3	HighLmit 113 113 112 114 116 116 118	3.44 19.8 2.43 1.57 4.85 4.95 6.39	40,7 38,4 25,5 34,1 32,1 28 37,4	Qual
Azornalene Aker unschlusene Sversphittylene scensphittylene Susrene Transantreme Votracene Votracene Jourchtens	47 17 15 16 17 17 17 17	0,50 0,50 0,50 0,50 0,50 0,50 1,0 0,50	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	0 0 0 0 0 0 0	82,7 82.8 75.0 82.0 84.5 84.7 83.3 80.7	LawLimit 28,6 27 26,3 36,2 35,6 38,4 42,3 42,2	HigitLmit 113 113 112 114 116 116 118 117	3.44 19.8 2.43 1.57 4.85 4.95 6.39 7.40	40,7 28,4 25,5 34,1 32,1 28 37,4 36,2	Qual
Naprimalene 1 Alexy Inaprimaens 2 Alektyhnaphitalene Acenaphitylene Paorane Ph	47 17 15 16 17 17 17 16	0,50 0,50 0,50 0,50 0,50 1,0 0,50 1,0 0,50 13,50	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	0 0 0 0 0 0	82,7 82.8 75.0 82.0 84.5 84.7 83.3 80.7 85.8	LowLimit 28,6 27 26,3 36,2 35,6 38,4 42,3 42,2 42,5	HighLmit 113 113 112 114 116 116 116 118 117 118	3.44 19.8 2.43 1.57 4.85 4.95 6.39 7.40 4.89	40,7 38,4 25,5 34,1 32,1 28 37,4 36,2 26,6	Qual
Narrivalarie Alectivijachtuerie Alectivijnachtuerie Konaphthere Pluorene Pluorene Horantinore Autracene Autracene Autracene Autracene	17 17 15 16 17 17 17 16 17	0,50 0,80 0,50 0,50 0,50 1,0 0,50 1250 0,50	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	0 0 0 0 0 0 0 0	82,7 82,8 75,0 82,0 84,5 84,7 83,3 80,7 85,8 84,9	LowLimit 28,6 27 26,3 36,2 35,6 38,4 42,3 42,3 42,2 42,5 40,8	HighLmit 113 113 112 114 116 116 116 118 117 118 121	3.44 19.8 2.43 1.57 4.85 4.95 6.39 7.40 4.89 0.828	40,7 38,4 25,5 34,1 32,1 28 37,4 36,2 26,6 26,8	Qual
Nacritivalenii 1. Marti yinacriti saene 2. Martiyinachittaalene Acenaphittylene Acenaphittylene Acenaphittylene Acenaphittylene Martiachittaalene	47 17 15 16 17 17 17 16 16 17 16 17 17	0,50 0,80 0,50 0,50 0,50 1,0 0,50 1,250 0,50 0,50	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	, 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	82,7 82.8 75.0 82.0 84.5 84.7 83.3 80.7 85.8 84.9 86.9	LawLimit 28,6 27 26,3 36,2 35,6 38,4 42,3 42,2 42,5 40,8 43	HighLmit 113 113 112 114 116 116 116 117 117 118 121 118	3.44 16.8 2.43 1.57 4.85 6.39 7.40 4.89 0.828 11.7	40,7 28,4 26,5 34,1 32,1 28 37,4 36,2 26,6 26,6 26,8 25,1	Qual
karmalariu Anorijeapithuareo Anorijeapithuareo conspitifykne conspitifykne burrathore hurrathore hurrathore hurrathore hurrathore hurrathore hurrathore hispane hispane hispane	17 17 15 16 17 17 17 16 17 17 16	0,50 0,80 0,50 0,50 0,50 1,0 0,50 0,50 0,50 0,50	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	, 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	82.7 82.8 75.0 82.0 84.5 84.7 83.3 80.7 85.8 84.9 86.9 86.9 81.1	LowLmit 28,6 27 26,3 35,6 38,4 42,3 42,2 42,5 40,5 43 39,4	HighLmit 113 113 112 114 116 116 116 118 117 118 121 118 119	3.44 19.8 2.43 1.57 4.85 6.39 7.40 4.89 0.828 11.7 6.90	40,7 38,4 25,5 34,1 32,1 28 37,4 36,2 26,6 26,6 25,1 23,3	Qual
Narmalere 1 Martylespithalere Konspithere Konspithere Narsen Parsen Narsen Storblere Seruljaktracene Parsenhere Seruljaktracene Parsenhere Seruljakorate Ser	17 17 16 16 17 17 17 17 16 17 17 16 17 17	0,50 0,80 0,50 0,50 0,50 1,0 0,50 0,50 0,50 0,50	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	82.7 82.8 75.0 84.5 84.7 83.3 80.7 85.8 04.9 86.9 81.1 85.6	Lo#Limit 28,6 27 26,3 36,2 38,6 38,4 42,3 42,2 42,5 40,6 43 39,4 47,8	HephLmitt 113 113 112 114 116 116 116 118 117 118 119 115	3.44 19.8 2.43 1.57 4.85 6.39 7.40 4.89 0.828 11.7 6.90 8.61	40,7 38,4 25,5 34,1 32,1 28 37,4 36,2 26,6 26,6 25,1 23,3	Qua
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QC SUMMARY REPORT

Kutz CS

Client:

Project:

Hall Environmental Analysis Laboratory, Inc.

Souder, Miller and Associates

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20.00		73.6	39.3	174			
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THE PERSON NUMBER OF		SeqNo: 1500290	Units: mg/L		
Analyte		SPK.Ref Val S.REC LowLimit	RepLinit %R90	RPOLm/t	Qu
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Sample ID LC8-34923	SampType LCS	TwitCode EPA Melbod	7470: Mercury		
Client ID: LCOW	Batcirit) 34923	Bunitiva #7017			
Prep Date 11/0/2017	Amilysia Date: 11/9/2017	Smphis 1600291	Unia mg/L		
Analysa	Result POL SPIC value	SPK Ref Val MREC LowLine	Hollinit SRPD	RPDLmit	Qu
Mercury	0.0052 0.00020 0.006000				
Sample ID 1710E55-001CM	ta SampTypa MS	TestCode: EPA Method			-
Client ID: Kutz 6GT	Eatch /D 34923		varu: mercury		
		RunNo. 47017			
Prop Date: 11/9/2017	Analyzis Date: 11/W2017	900M0 1900283	UNITE MOL		
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Sample ID 1710E55-001CM	ISD SampType: MSD	TestCode: EPA Method	7470: Mercury		
Client ID: Kutz BGT	Batch (D: 34923	RunNo: 47017			
Prep Date: 11/9/2017	Analysis Date: 11/9/2017	SegNo: 1500294	Units: mg/L		
Anable	Hasuit Pick. SPK value	SPICENT Val MIREC LowLine	HighLinnia MRPD	RPDLimit	0a
Mercury	0.0040 0.00020 0.006000	0.0001159 /8.5 75	125 0.227	20	

- Qualifiers
 Qualifier:
 Value exceeds Maximum Contaminant Level.

 D
 Sample Dibated Dae to Matrix
 H

 H
 Holding times for preparations or antijonis exceeded
 NO

 KD
 Foch Daccod a time Response Tunix
 PQL

 PActical Quantitative Limit
 Foch Daccod a time Response Tunix
 FQL
- B Analyte detected in the associated Method Blank
 E Value above quantitation range
 Anniyte Advocted Incluse quantitation linese
 Y* Sample pH Not in Range
 RL, Reporting Detection Limit
- Page 9 of 11
- - W Bample consume temperature is out of limit as specified

- Qualifier:
 •
 Value records Maximum Contaminant Level,

 D
 Sample Diluted Due to Matrix
 •

 H
 Holding times for preparation or analysis exceeded.

 ND
 Not Directed at the Reporting Limit

 PQC
 Paciend Durinitive Limit

 S
 % Recovery outside of range due to dilution or matrix

Page 6 of 11

B Analyte detected in the associated Method Blank
 E Vahar above quantization range
 J Analyte detected below quantization limits
 Sumpte part Next in Xange
 HL. Reporting Detection Limit
 W Sample container temperature is out of limit as specified

	al Analysis Laboratory	100.			10-Nov-17	Clients		al Analysis		ary, nac,					16-Nov-17
roject: Kutz CS		and the second				Project:	Kutz CS				1			_	-
rmple ID MID 34616 emm (ID) PBW ep Date 11/M2017 inkyw enc enc onken d nium	ND 0.020 ND 0.020 ND 0.0020 ND 0.0060 ND 0.0050 ND 0.050	TentGudar E/A 801963 RuniNo: 46886 SagNo: 1495802 Ref Val ILIREC LowLimit	Linitz: mg/L		Qual	Client ID: 1	71855-881CM8 Sutz BGT 11/4/2017	CampType M Batch ID: 3 Ansiyals Date: 1 Result PCL 0.51 0.020 0.52 0.0050 0.51 0.055 0.60 0.055 0.10 0.0550	8816 1/6/2017 SF/K, villum 0.5000 0.5000 0.5000 0.5000 0.5000	SPK Ref Val 0.01230	etCodo: EPA 604085 RunNo: 46888 Sispha 1495834 <u>NREC LowL</u> 101 75 99.6 75 101 75 102 75 114 75 102 75	Livita: mg/L HighLimit 125 125 125 125 125		RPDLIME	Qua
ar	ND 0,0050		_			1000 C 1000 C 1000 C 1000 C 1000 C 1000 C 1000 C 1000 C 1000 C 1000 C 1000 C 1000 C 1000 C 1000 C 1000 C 1000 C	710E55-001CMS	e lane der la			Code EPA 00108	Total Recover	able Metals	•	
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senic rlum iromium iromium ad lemium ver.	NID 0.020 0.020 0.020 NID 0.020 0.002000 0.002000 0.0021 0.00200 0.002000 0.002000 NID 0.0050 0.005000 0.005000 NID 0.0050 0.005000 0.005000 NID 0.0560 0.005000 ND5000 NID 0.0560 0.055000 ND50000	0 133 50 0 121 50 0 106 50 0 112 50 0 57.2 50 0 113 50 0 99.4 50	150 150 150 150 150 150 150			Banum Caromum Chromum Lead Selenium Skier	1	0.52 0.020 0.51 0.000 0.52 0.0060 0.51 0.0050 0.61 0.055 8.10 0.0050	0.5000 0.5000 0.5000 0.5000	0.01230 0.002240 0.009240 0 0.02856 0	101 75 102 75 102 75 102 75 101 75 101 75	125 125 125 125	0,182 0,997 0.597 0,769 2,79 0,345	20 20 20 20 20	
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senic sulfifers: * Value exceeds Maximum C D Sample Diburd Due to Mat Holding Ithins for program BD For Detected at the Report QL Practical Quantitative Limit S % Recovery outside of rang	trix E an or-analysis excession I ing Limit P RL	2075 109 75 Analyte detected in the associ Value above quantitation rang Analyte detected below quanti Sample pll Not in Range Reporting Detection Limit Sample container temperature	arana finnila	Page 10 of 1	11	D Sample H Hailing KD Nex Dat PQL Practica	Diluted Due to Ma times for prepatiti netail at the Report I Quanitative Limit	on or analysis excerding times		E Value J Analy P Sumpl RL Report	e detected in the associ above quantitation rang e detected below quant e data and below quant e pH Noi Ia Range ing Detection Limit e container temperature	e Lusion filmis		Page 11 at	п
HALL ENVIRONMENT ANALYSIE LABORATOR	WTAL	1990 Harding States - 1990 Harding 1990 Hardina Mi Albuquergan MM 87105 145 3978 FAX: 503-543-4107 1994 Milliontemental Com	Sample Lo	og-In Check I	List	ITAL			IN IN AV SH	에에 1년 위험					feet.
Client Name: SMA-F/ Received By: Sophia Completed By: Erin M	ARM Work Order a Campuzanio 10/27/2017 8:0	Number: 1710E55	MA	RaptNo: 1		INVIRONMENTAL	Acomental.com suquergua. NM 97-09 Fax 505-545-4107	SB2 FCB5	(AOV (AOV)	85808 (x				Repat 50

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Courier			
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Yes 2		NA 🗔	
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17. Additional re

Page 1 of 1

4901 Hawkins NE - Albuc Tel: 505-345-3975 Fax MANIALY ROUM 1643 Remarks Curl Lis MANIALY ROUM 1643 Bris Full Lis Bare Compose K BAH's (8310 or 220 gine) Involue Tom (1.408 bortleM) BOB (1.814 borlew) HGT (ОЯМ / ОЯС / ОЯВ) ВЕГОВ НЯТ BTEX + MTBE + TPH (Gas only (1000 arc) Hz2 + 381/M + X318 (1209) 86/11 + 381/M + X318 (1209) 86/11 + 381/M + X318 (200) 200 from (200) (200) 2 Milling Polytons, Lot JJ, Buendaundy K-472, CS FARTANI Ing Pala JAN, 872/41 Popol 11. Phone 11: Sec 213-7535 Phone 12: Sec 213-7555 Phone Sampler: Courses 11 Marson On the constraints 2 P1022 (CP) = 3 / Union VARION - DD Project Name Type Tam-Around Tinus: Container P ment Sondan Miller Asec. Sample Request ID Chain-of-Custody Record ILUIT 14-34 HEO Kunte BGT And Ward Ì Rey it in the second Matrix Line well Time Į. Date 1

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Analytical Report



ENVIRONMENTAL	4861 Hawkim Himmenrywe NM 871
LABORATORY	TEL. 2015-T43-5925 Park: 543-545-44 Wolcome: using Kallowsieronmental
November 06, 2017	
Ashley Maxwell	
Souder, Miller and Associates 401 W. Broadway	
Farming isa, NM 87403	
FAX	
RE: Martinez CS	OrderNo. 1710702
Dear Ashley Maxwell:	
Hall Environmental Analysis Laboratory rece analyses presented in the following report.	ived 1 sample(s) on 10/12/2017 for the
tests please go to www.hallenvironmental.com properly interpret your results, it is imperative	e that you review this report in its entirety.
tests please go to www.hallenvironmental.com	n or the state specific web sites. In order to that you review this report in its emirety. Cusuody for information regarding the Data qualifiers or a marrative will be quality control parameters require a flag, on both the sample analysis report and the reviewed. All samples are reported, as assurement of analysis considered field mates of sampling such as pH and residual
tests please go to www.hallenvironmental.cor properly interpret your results, it is imperative see the sample iccleckins und/or the Claim of sample receipt temperature and preservation, provided if the sample analysis or analytical When necessary, data qualifiers are provided QC ammary report, both sections should be reactived, unless otherwise indicated. Tah me parameters that require analysis within 15 mi	nor the state specific web sites. In order to that you review this report in its entirety. Cussedy for information regarding the Data qualifiers or a marrative will be quality control parameters require a flag, on both the sample analysis report and the reviewed. All samples are reported, as acurement of analysis considered field nutes of sampling such as pH and residual de of the recommended holding time.
tests please go to <u>www.hallenvironmental.co</u> properly interpret your results, it is imperative See the sample checklist and/or the Clinin of sample receipt temperature and preservation, provided if the sample analysis or analytical of When necessary, data qualifiers are provided QC ammany report, both sections should be resulted, unless otherwise indicated: Tab me parameters that require analysis within 15 mi chlorine are qualified as being analyzed outai	in or the state specific web sites. In order to that you review this report in its entirety. Cussedy for information regarding the Data qualifiers or a narrative will be quality control parameters require a flag, on both the sample analysis report and the reviewed. All samples are reported, as samerous a familyse considered field nutes of sampling such as pH and residual de of the recommended holding time. Additional information or clarifications
tests please go to www.hallenvironmental.com properly interpret your results. It is imperative See the sample enactive and/or the Chinn of sample receipt temperature and preservation, provided if the sample analysis or analytical a When necessary, data qualifiers are provided OC aummary report, both sections should be: resulted, unless atherwise indicated T as me parameters that require analysis within 15 mi chilorine are qualified as being analyzed outai Please don't hesitate to contact HEA1: for any	in or the state specific web sites. In order to that you review this report in its entirety. Cussedy for information regarding the Data qualifiers or a narrative will be quality control parameters require a flag, on both the sample analysis report and the reviewed. All samples are reported, as samerowing a familytise considered field nutes of sampling such as pH and residual de of the recommended holding time. (additional information or clarifications
tests please go to <u>www.hallenvironmental.cor</u> properly interpret your results, it is imperative see the sample checklist und/or the Claim of sample receipt temperature and preservation, provided if the sample analysis or analytical When necessary, data qualifiers are provided QC ammary report, both sections should be received, unless otherwise indicated. Tain me parameters that require analysis within 15 mi chlorine are qualified as being analyzed outai Please don't hesistate to contact HEAT. For any ADBRS Cent #AZ0682 — NMED-DWB Cent	in or the state specific web sites. In order to that you review this report in its entirety. Cussedy for information regarding the Data qualifiers or a narrative will be quality control parameters require a flag, on both the sample analysis report and the reviewed. All samples are reported, as samerous a familyse considered field nutes of sampling such as pH and residual de of the recommended holding time. Additional information or clarifications
tests please go to www.hallenvironmental.cor properly interpret your results, it is imperative see the sample checklis und/or the Chinn of sample receipt temperature and preservation, provided if the sample analysis or analytical of When necessary, data qualifiers are provided QC ammany report, both sections should be received, unless otherwise indicated: Tab me parameters that require analysis within 15 mi chlorine are qualified as being analyzed outai Please don't hesitate to contact HEA1: for any ADBS Cent #AZ0682 — NMED-DWB Cent Sincerely,	in or the state specific web sites. In order to that you review this report in its entirety. Cussedy for information regarding the Data qualifiers or a narrative will be quality control parameters require a flag, on both the sample analysis report and the reviewed. All samples are reported, as samerous a familyse considered field nutes of sampling such as pH and residual de of the recommended holding time. Additional information or clarifications
tests please go to <u>www.hallenvironmental.cor</u> properly interpret your results, it is imperative see the sample checkins und/or the Clinin of sample receipt temperature and preservation, provided if the sample analysis or analytical of When necessary, data qualifiers are provided QC aummany report, both sections should be received, unless otherwise indicated: Tab me parameters that require analysis within 15 min chlorine are qualified as being analyzed outai Please don't hesitate to contact HEAL for any ADBS Cent #AZ0682 — NMED-DWB Cent Sincerely,	in or the state specific web sites. In order to that you review this report in its entirety. Cussedy for information regarding the Data qualifiers or a narrative will be quality control parameters require a flag, on both the sample analysis report and the reviewed. All samples are reported, as samerowing a familytise considered field nutes of sampling such as pH and residual de of the recommended holding time. (additional information or clarifications

Iall Env	iro	nmental Analysis	Labora	tory. In	c.		1.at	alytical Report Order 1710702 a. Reported. 11/6/2015
-	-	, Miller and Associates	Labora		-	lieut	Sample ID: Martin	
roject: I	dantis	ux CS				Colla	ction Date: 10/10/	2017 12:04:00 PM
ab IDr 1	7107	02-001	Matrix:	AQUEOUS		Rec	eived Date: 10/12/	2017 7:05:00 AM
andyses			Result	PQL.	Qual	Unit	s DF	Date Analyzed
EPA METH	00 7-	478: MERCURY						Analyst: MED
Mercury			ND	0.020		ma	1	10/25/2017 9:00:15 AM
EPA SOLOF	- 101	AL RECOVERABLE ME	TALE					Analyst: MED
Americ	191	HE HERD TRIVIALE HE	ND	5.0		ma	· · · ·	10/18/2017 10:34:52 AM
Banuni			ND	100		mg		10/16/2017 10:34:52 AM
Cadmium			ND	1.0		mg		10/18/2017 10:34:52 AM
Chromium			ND	5.0		mp		10/1E/2017 10:34:52 AM
Load			MD	5.0		ma		10/18/2017 10:34:52 AM
Selenium			ND	1.0		mg		10/18/2017 10:34:52 AM
Sive			MEX	2.0		- 100		10/18/2017 10-3/1-52 AM
PAMETH	OD 8	270C: PAHS						Ansiver DAM
Naphthales			ND	5.0	D	hou	1	10/19/2017 2:15:28 PM
1-Moinyisa		-	ND	5.0	D	ugi		10/19/2017 2:15:28 FM
2-Methylma			ND	5.0	D	Lipi		10/19/2017 2:15:28 PM
Acenactin		uno.	ND	5.0	D	Pal		10/19/2017 2:15:28 PM
Acenaphili			ND	5.0	D	HOT		10/10/2017 2:15:29 FM
FLATION			ND	5.0	0	Val		10/19/2017 2:15:28 PM
Physianthe	-		ND	5.0	D	uo/		10/19/2017 2:15:28 PM
Antitracem			ND	5.0	D	- ugi		10/19/2017 2.15.28 PM
Fluoranthe	DR.		ND	5.0	D	Lon		10/19/2017 2:15:28 PM
Pyrona			ND	5.0	D	pot		10/19/2017 2:15:28 PM
Bunz(a)ani	rotor	10	ND	5.0	D	hay		10/19/2017 2:15:28 PM
Chrysene			ND	5.0	D	Leg/		10/19/2017 2:15:28 PM
Benzoihiti	intent	no je	ND	5.0.	D	LO/		10/19/2017 2 15:25 PM
Banazo(k)/b	INCOME	Ten Cite	ND	5.0	n	Ho/I	1	10/19/2017 2:15-20 PM
Benuto(alp)	yTHE III		ND	.0.0	D	Ha/	1.	10/19/2017 2:15:20 PM
Dipenz(a,h	()anthra	cene	ND	5.0	D	- pg/	1	10/19/2017 2:15:28 PM
Benzo(g,h,	i)peryle	ene	ND	5.0	D	µg/l	1	10/19/2017 2:15:28 PM
Indenty),2	3 mile	iyrene	ND	5.0	D	iig/	- n	10/19/2017 2:15:20 PM
Sur. N-	hexade	Garie	50.9	34.2-111	D	76R	ec 1	10/13/2017 2:15:25 PM
Sun: Be	nzo(e)	pyrene	69.9	39.3-124	D	%R	ec 1	10/19/2017 2:15:28 PM
PA METH	00 8	260B: VOLATILES						Analyst: RAA
Benzene			ND	0.50		ma	L 200	10/13/2017 8:40:00 PM
Toluene			0.45	0.20		mai		10/13/2017 8:40:00 PM
Ethylbenia	nei		ND-	0.20		mai		10/13/2017 8:40:00 PM
Methyl tert	-DUTYI (IONOF (MTBE)	ND	0.20		mg	L 200	10/13/2017 5:40:00 PM
1,2,4-Trim			ND	0.20		mg		10/13/2017 8:40:00 PM
1,3,5-Trim			ND	0.20		mg		10/13/2017 8:40:00 PM
1.R-Dishlor			ND-	0.20		mai		10/13/2017 8:40:00 PM
Refe	to flo	e QC Summary report and	ample by	un checklisi	for f	lagged	QC data and prese	rvition information
malifiers:		Valite exception Maximum Con	territant I en	4		n .	milvis dement is the w	stociated Method Rlank
	D	Sample Diluted Due to Matri					alue above quantitation	
	II.	Holding Unios for preparation		Inken			maivie detected below o	parentingion limits Page 1 of 11
	ND	Net Descred at the Reporting				10.5	annie pB No In Ranat	Page 1 of 11
	POL						tenoring Descrition Land	
	5	76 Recovery outside of range	due to more	IN DIADTA				attane is out of mmit as specified

Hall Environmental Analysis	Labora	tory, Inc.				abrical Report Order 1714762 n Reported: 11/6/2017
CLIENT: Souder, Millier and Associates Project: Martinez CS Lab ID: 1710702-001	Matrix:	AOUEOUS	Col	lection I		ez BUT 2017 12:04:00 PM 2017 7:05:00 AM
Analyses	Result	POL Oual	Un	its	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES			-			Analyst: RAA
1.2-Dibromoethane (EDB)	ND	0.20	m	A	200	10/13/2017 8:40:00 PM
Maphilinalema	ND	0.40		14	200	10/13/2017 /l 40:00 PM
L-Reference disapple transmission	ND	0.80		1L	209	10/13/2017 8:40:00 PM
2-Minuty/opplit/indigen	ND	0.50		n.	200	10/13/2017 8:40:00 PM
Acetone	ND	2.0		JA.	200	10/13/2017 8:40:00 PM
Bromobenzene	ND	0.20	m		200	10/13/2017 8:40:00 PM
Bhowodichiwamathawa	ND	0.20		JAL	200	10/13/2017 8:40:00 PM
Bromoform	ND	0.20	m		200	10/13/2017 8:40:00 PM
Bromomethane	ND	0.60	mg		200	10/13/2017 8:40:00 PM
2-Bulanone	ND	2.0	mi		200	10/13/2017 8:40:00 PM
Carbon discusses	ND	2.0	m		200	10/13/2017 8:40:00 PM
Carbon Tetrachloride	ND	0.20	m		200	10/13/2017 8:40:00 PM
Chlorobon	ND	0.20	me		200	10/13/2017 #:40.00 PM
Chloroeinan	ND	0.40	111		200	10/13/2017 8-40.00 PM
Chloroform	ND	0.20	m		200	10/13/2017 8:40:00 PM
Chloromethane	ND	0.60		3/L	200	10/13/2017 8:40:00 PM
2-Chlorotoluene	ND	0.20	mg		200	10/13/2017 8:40:00 PM
4-Chiorotoluene	ND	0.20	m		200	10/13/2017 8:40:00 PM
cis-1.2-DCE	ND	0.20			200	10/13/2017 8:40:00 PM
			mg			
cis-1,3-Dichloropropene 1,2-Dibromo-3-chloropropane	ND	0.20		p/L	200	10/13/2017 8:40:00 PM
Dibromochloromethane	ND	0.40		3/L	200	10/13/2017 8:40:00 PM
	ND	0.20		μL.	200	10/13/2017 8:40:00 PM
Ditronomilia	ND	0.20	mg		200	10/13/2017 8:40:00 PM
1,2-Uichlorobenzene	ND	0.20	mg		200	10/13/2017 8:40:00 PM
1,3-Dichlorobenzene	ND	0.20		a/L	200	10/13/2017 8:40:00 PM
	ND	0.20		b)F	200	10/13/2017 8:40:00 PM
Dichlorodifluorometriane	ND	0.20	mş		200	10/13/2017 8:40:00 PM
1,1-Dichloroethane	ND	0.20	mg		200	10/13/2017 8:40:00 PM
6.1-Dichavenitaria	ND	0.20		J/L_	200	10/13/2017 8:40:00 PM
1,2-Dichlaropiopa ja	ND	0.20		2/L-	200	10/13/2017 8:40:00 PM
1,3-Dichioropropane	ND	0.20		312	200	10/13/2017 8:40:00 PM
2.2-Oldvi vopropi **	ND	0,40	m		200	10/13/2017 8:40:00 PM
1.1-Dichloropoene	ND	0.20	my		200	10/13/2017 8:40:00 PM
Hexachicrobutucienes	ND	0.20	ing		500	10/13/2017 8:40:00 PM
2-Hexamone	ND	2.0		D/L	200	10/13/2017 8:40:00 PM
Isopropylbenzene	ND	0.20		p/L	200	10/13/2017 8:40:00 PM
4-faopropylesame	ND	0.20		м. –	200	10/13/2017 8:40:00 PM
1-Mothyl 2 pentanone	ND	2.0	m		200	10/13/2017 8:40:00 PM
Methylene Chloride	ND	0.60	mg	g/L	200	10/13/2017 8:40:00 PM
Refer to the QC Summary report and	t sample logi	n checklist for I	lagge	d QC its	na and prese	vation information.
Onalifiere: • Value excends Maximum Co.						arcuital Method Blink
D Sample Diluted Date us Matry					rvic quantitation	
H Holding times for preparation		reded	1	Analyte d	ctocted below q	mulitation linnes Page 2 of 11
ND Not Detected at the Reporting	Limit		P	Sample pl	H Not In Range	
POL Practical Quimitative Limit			RL	Pandatina	Detection Limi	1

Hall Environmental Analysis	Laborato	ry, Inc.			Lab	lytical Report Order 3710702 Reported 11/6/2011			
CLIENT: Sousier, Moller and Associates Project: Martinez CS. Lab ID: 1710702-001	Matrix: AC	Client Nample ID: Maninez BGT Collection Date: 10/10/2015 12:04:00 PM Matrix: AOUEOUS Reveived Date: 10/12/2017 5:05:00 AM							
Analysas.	Result	PQ1. Qual	Units		DF	Date Analyzed			
EPA METHOD 82688: VOLATILES		17	1. A.		3	Analyst: RAA			
n-Butylbenzene	NO .	0.8%	I MIGAL	1.0	1303	\$9/13/2017 9:40:00 PM			
n-PropyEuroanne	ND	0.20	mg/L.		200	10/13/2017 8:40:00 PM			
Hoc-Butytberasers	ND	19,277	ingit		000	10/13/2017 8-40/10 PA			
Styrann	ND	0.20	mp/L		200	10/13/2017 8:40:00 PM			
kert-Ekrivikienzene	ND	0.20	mail		.500	10/13/2017 9:40:00 PM			
1.1.1.2-Tetrachloroethana	ND	0.00	mal		200	10/13/2017 8:AD 00 PM			
1.1.2.2-Tritrichloroethanic	ND	0.40	mail		200	10/15/2017 8:40:00 PM			
Tetracritoroethene (PGE)	ND	0.20	mg/L		200	10/13/2017 8.40:00 PM			
trans-1.2-DCE	ND	0.20	ma/L		200	10/13/2017 8:40:00 PM			
trans-1,3-Dichloropropenni	NO	0.20	mail		200	10/18/2017 8:40:00 PM			
1.2.3 Trichtmilacrazona	ND	0.29	mpl		200	10/13/2017 8:40:00 PM			
1.2.4-Trictilorobiozenia	ND	0.20	mail		200	10/13/2017 8:40:00 PM			
1,1,9-Trichlomethere	ND	0.20	mult		200	10/13/2017 8:40:00 PM			
1.4.9-T delibermilitare	ND	0.20	mp/L		200	10/13/2017 8:40:00 PM			
Trichloroethene (TCE)	ND	0.20	mpA.		200	10/13/2017 8:40:00 PM			
Inchiorofluoromethane	ND	0.20	mg/L		200	10/13/2017 8:40:00 PM			
1,2,3-Trichloropropane	ND	0.40	mg/L		200	10/13/2017 8:40:00 PM			
Vinyi chlaside	ND	0.30	mg/L.		200	10/13/2017 8:40:00 PM			
Aytenes, Total	ND	0.00	mg/L		200	10/13/2017 5:40:00 PM			
Surr: 1,2-Dichloroethane-d4	94.3	70-130	%Rec		200	10/13/2017 8:40:00 PM			
Suir 4-Bromofluorobenzene	96.3	70-130	NRec		200	10/13/2017 8:40:00 PM			
Gura Dissemellupromathania	102	28-190	R.P.ac		-200	10/13/2017 8-40-00 PM			
Surt: Toluena-de	95.9	70-130	%Rec		200	10/13/2017 8:40:00 PW			

Refer to the OC St	immary report and sample log	in checklist for flagted	OC data and unservatio	g information

TimiGular EPA Method 52898: YOLATILES

SeqNo: 1476098 Units: µg/L

 Bitch 10: R4854
 Runki: A4543

 Analysis Date:
 10173/2017
 Service::
 474008
 Units: uput.

 Renue:
 PO.
 0
 Receives SPK Ref Val
 KARE C.
 LowLine:
 HighLine:
 KRPD
 POLine:
 Out

 NO
 1.0

 NO

B Analyte detected in the passiciated Method Blank

Funble 46343

- Oralliters:
 *
 Value exceeds Maximum Commission Level.
 II.
 Analyte detected is the associated Method Blank

 D
 Sample Chined Dea to Maxim
 E
 Value detected is the associated Method Blank

 H
 Initiating most in propuration or analysis exceeded
 E
 Value detected Hear symmitation orange

 ND
 Net Decendent at the Reporting Limit:
 P
 Sample Of Not In Range
 F01

 Practical Quantitation limits
 P
 Sample Of Not In Range
 F02
 Feedow Decendent to of Finitiation or approximation or approx

QC SUMMARY REPORT

Martinez CS DamaType MBLK

Client;

Project:

Prep Date:

Bampic ID: ro Clant ID: PBW

Prep Date: Analyte Methyl teh Sulf etter (MIBE) 12.4-Trimetybenzene 13.2014 (Stransfybenzene 13.2014 (Stransfybenzene 13.2014 (Stransfybenzene 13.2014 (Stransfybenzene 13.2014 (Stransfybenzene Stransfybenzene Stransfy

2-Chlorotoluene 4-Chlorotoluene da-1,2-OCE da-1,2-OCE 1,2-Ditchoropropene 1,2-Ditchoromethane Disromomethane 1,2-Dichlorobenzene

1.3-Dictiombenzene

1.3-Dichlorobenzene 1.4-Dichlorobenzene Ordinorobiturmetha 1.1-Dichloroethene 1.3-Dichloropropane 1.3-Dichloropropane 1.3-Dichloropropane 1.1-Dichloropropane 1.1-Dichlor

Hall Environmental Analysis Laboratory, Inc.

Souther, Miller and Associance

Billch ID: R46343

Analysis Date: 10/13/2017

Sec. 1710102

Page 6 of 11

Whe New J ?

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WHE

Page 4 of 11

1730703

06-Nov-17

Souder, Miller and Associates Client:

Sample ID: 100ng loar	Gempty	per LO	34	Ten	Cubr 21	builtink A ^q	BIRGE VOL	ATEES			
Client ID BatchQC	Batch	D. RA	6343		RumNin 46345						
Prep Date:	Analysis Da	ile: 10	13/2017	5	leqNo: 1	476097	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	20	1.0	20.00	0	102	70	130	-			
l'oluene.	20	1.0	20.00	0	98.1	70	130				
Ethylbenzene	20	1.0	20.00	0	99.5	70	130				
Aethyl tert-butyl ether (MTBE)	40	1.0	40.00	0	101	70	130				
2,4-Trimethylbenzene	19	1.0	20.00	0	95.5	70	130				
3,5-Trimethylbenzene	19	1.0	20.00	0	94,7	70	130				
,2-Dichloroethane (EDC)	20	1.0	20.00	0	97.9	62.2	143				
2-Dibromoethane (EDB)	20	1.0	20.00	0	98.9	70	130				
Naphrhallene	18	2.0	20.00	0	89.1	70	130				
MathyliuphBuildea	16	3.0	20.00	ō .	80.8	80	140				
2-Methylnaphthalene	14	4.0	20.00	0	70.2	60	140				
Acetone	35	10	40.00	.9.	BER	r 60	540	C 11	1		
Bromobenzene	20	1.0	20.00	.5	100.7	-70		12 1	1		
Bromodichioromethane	21	1.0	20.00	0	103	70	130				
ironoform	20	1.0	20.00	0	98.0	70	130				
romomethane	13	3.0	20.00	0	65.5	60	140				
-Butanone	42	10	40.00	0	104	60	140				
arbon disulfide	38	10	40.00	0	0.80	60	140				
Carbon Tetrachikotola	21	1.0	20.00	U	103	70	130				
INNERGENTERN	2/0	1.0	20.00	0	101	70	130				
Divergenation	20	2.0	20.00	0	B8.7	00	140				
Naclow	21	1.0	20.00	á	103	70	130				
NoroneTrane	21	3.6	20.00	ő	103	60	140				
-Chlorotoluene	19	1.0	20.00	0	94.5	70	130				
-Chlorotoluene	19	1.0	20.00	0	95.4	70	130				
is-1.2-DCE	21	1.0	20.00	0	105	70	130				
sis-1.3-Dichloropropene	19	1.0	20.00	0	96.9	70	130				
2-Obvino-3-diatomore	19	2.0	20.00	0	95.2	70	130				
Spromodiavometrane	18	1.0	20.00	0	04.4	70	130				
Senationalitaria	21	1.0	20.00	0	104	70	130				
2-Dichiorobenzene	19	1.0	20.00	0	95.2	70	130				
.3-Dichlorobenzene	19	1.0	20.00	0	96.2	70	130				
4-Dichipioberstepe	10	1.0	20.00	0	95.6	87.2	141				
Xallere Turomethere	21	1.0	20.00	0	106	80	140				
.1-Dichloroethane	21	1.0	20.00	0	103	52.6	157				
.1-Dichloroethene	20	1.0	20.00		103	52.6	130				
1.2-Dichloromane	20	1.0	20.00	0	101	63.7					
3-Dichloropropine	20	1.0	20.00		98-0	63.7	138				
2-Oknikkopropine	21	2.0	20.00	0	105	70	130				

- Qualifiers:
 •
 Value exceeds Maximum Contansistant Level.

 D
 Sample Dilated Due to Matrix
 •
 Holding tomo for preparation or analysis exceeded

 M
 Holding tomo for preparation or analysis exceeded
 •
 •
 •

 VD
 Not Denixed in the Reporting Limit
 PQC
 Pacied Oranizative Limit
 •

 S
 56 Recovery outside of range due to alliulion or matrix
 •
 •
 •

Analyse detector in the associated Method Islanc
 Value above quantifation range
 Analyse detected before quantifatione (innit)
 Sample pl Not In Nange
 R. Reporting Detection Limit
 W Sample container temperature is out of Jimit as specified

B Analyte detected in the associated Method Blank
 Value above quantitation range
 Analyte detected below quantitation limits
 Samilyte detected below quantitations limits
 Samile e81 Not in Variant

	MMARY REPORT ironmental Analysis Laboratory, Inc.	1120-	1718782 Bir-Nuv-17
Client. Project:	Souder, Miller and Associates Martinez CS	And the second second	

Enropie ID yta	[3amp]	you MI	ILK.	Tess	GUUD E	PA Method	ASEEB: YOU	ATILES		
Elited ID: PBW	Batch	UD. BA	6343		UNNE: 4	6343				
Prep Date:	Analysis D	Date: 10	V13/2017	5	SegNo: 1	476098	Units: µg/L			
Anatyse	Result	POL	SPK value	SPK Ref Val	NREC	LowLinit	HahLimit	NRPD	RPDLimi	Quil
Isopropylbenzene	ND	1.0								-
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chlunide	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propyloenzene	ND	1.0								
sec-Butyloenzene	ND	1.0								
Styrene	ND	1.0								
wh-Bullytowizzer	ND	1.0								
A.1.2-Teiracitizenilaare	ND.	+0								
1,1,2,2-Tetrachiorowhare	ND	2.0								
Intractivity (PUE)	NU	1.4								
rea-12/00E	ND	1.0								
nino-1,3-Oktionustonene	MD	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								
Trichiosoethere (TCE)	ND	1.0								
inchiorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Cylemes, Tutal	ND	1.5								
Sur: 1,2-Dichloroethane-d4	9.5		10.00		95.3	70	130			
Surt 4-BromoRuorobenzene	9.7		10.00		07.4	70	120			
Sur: Dbromotcolerratione	10		10.00		102	70	130			
Surr: Toluene-d8	9.6		10.00		95.9	70	130			

Qual	ifiers:			
	Value	we and a	Max	ineres a

exceeds Maximum Contaminant Level.

Sample Occession is consuming to ensuming the pro- Sample Disted Due to Matrix
 Helding times for preparation or analysis exceeded
 ND Fea Decaysian is the Reporting Lemm
 Point Decay Deamstitive Lines
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

sture is out of limit as specified

Analyse concession in the associated section as Value above quantitation range Analyse description before quantitation (initial Sample quantitation fund) Sample container temperature is out of limit t

Page 7 of 11

 Qualifiers:
 •
 Vetrie encodel Maximum Gentaminan Level,

 □
 Sample Editated Due to Matiox
 •

 □
 Indiang Limits Due to Statiox
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 □
 Indiang Limits Due to Statiox
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 % Recovery outside of range due to dolution or matrix
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Sonalyte detector in the suscented Method Hank
 Value attempt distant
 Analyte detected below quantitation limits
 Sample pit i voi in Range
 RL Reporting Detection Limit
 Sample container temperature is out of limit as specified

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Web 1718742

No Nural 7

Souder, Miller and Associates Client:

Gemple ID Kar34414	Samp?	YAN LC	8	Ten	Gode E	A MILINDU	62706: PAHs			
Ciwel ID: LCSW	Balc	10. 34	414	RenNo allega						
Prep Date: 10/16/2017	Analysis D	late: 10	19/2017	s	legNo: 1	480925	Units: µg/L			
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Next Baleni	18	0.50	20.00	D IIII	92.9	28.6	113	2010 0	Tu benni	Secon
-Mathykaphtrakenia	10	0.50	20.00	0	79.4	27	113			
2-Methylnaphthalene	18	0.50	20.00	0	92.1	26.3	112			
Acenaphthylene	20	0.50	20.00	0	97.5	36.2	114			
Acenaphthene	19	0.50	20.00	0	97.1	35.6	116			
Ruorene	20	0.50	20.00	0	101	38.4	116			
Phononthrone	18	0.50	20.00	0	32.3	42.3	110			
Anthracene	18	0.50	20.00	0	91.2	42.2	117			
Fluorandhime	19	0.50	20.00	10	D4.0	42.6	118			
Puterie	10	0.50	20.00	0	05.6	40.8	121			
Benzla]anithracene	20	0.50	20.00	0	99.4	43	118			
Chrysene	19	0.50	20.00	0	94.4	39.4	119			
Benzo(b)/fluoranthene	19	0.50	20.00	0	95.0	47.8	115			
Benzo(k)fluoranthene	20	0.50	20.00	0	99.0	40.5	120			
Benzo(a)pyrene	19	0.50	20.00	0	93.1	41.5	115			
Dibenz(a,h)anthracene	19	0.50	20.00	0	93.7	48.6	115			
Benzo(g.h.i)perylene	19	0.50	20.00	0	95.7	40.0	119			
indenn(1.2,3-od)pyrana	10	0.50	20.00	0	94.8	42.0	118			
Sur: N-hexadecane	78	0.00	87.60		89.0	34.2	111			
Sur: Benzole gyrene	17		20.00		84.6	39.3	124			
and the second sec		_	20.00		01.0	00.0	12.4			
Sample ID Idad-34414		YDE: LC		Tent	Code: El	PA Method	8270C: PAHs			
Climit ID: LC8502	2 Rankin ID 34418 Fountio 46486									
Prep Date 10/15/2017	Anniyan 2	lain - 44	110/2017		aquin 4	480926	Usia ppk			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nettaiov.	-19	0.56	20.00	0	105.#	28.6	113	2,66	40.7	
i-Methylnauhtralene	17	0.50	20.00	σ	83.3	27	113	4,79	38.4	
							112	6.72	25.5	
	20	0.50	20.00	0	98.5	26.3				
2-Methylnaphthalene	20 19	0.50	20.00	0	98.5 93.1	26.3 36.2	112	4.62	34.1	
2-Melhylnaphthalene Acenaphthylene									34.1 32.1	
2-Methylraphthalene Aceraphthylene Aceraphthene	19	0.50	20.00	0	93.1	36.2	114	4.62		
2-Methylnaphthalene Acenaphthylene Acenaphthene Fluorene	19 19	0.50	20.00 20.00	0	93.1 97.0	36.2 35.6	114 116	4.62 0.103	32.1	
2-Methylnaphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene	19 19 20	0.50 0.50 0.50	20.00 20.00 20.00	0 0	93.1 97.0 101	36.2 35.6 38.4	114 116 116	4.62 0.103 0.297	32.1 28	
2-Methylnaphthalene Acenaphthylene Acenaphthene Fluorene Phenanihitene Anthracene	19 19 20 20	0.50 0.50 0.50 0.50	20.00 20.00 20.00 20.00	0 0 0	93.1 97.0 101 102	36.2 35.6 38.4 42.3	114 116 116 118	4.62 0.103 0.297 9.59	32.1 28 37.4	
2-Methylnaphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Andhracene Fluoranthone	19 19 20 20 20	0.50 0.50 0.50 0.50 0.50	20.00 20.00 20.00 20.00 20.00	0 0 0	93.1 97.0 101 102 101	36.2 35.6 38.4 42.3 42.2	114 116 116 118 117	4.62 0.103 0.297 9.59 10.0	32.1 28 37.4 36.2	
2-Methytraphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Andhracene Fluorasthene Pyrone	19 19 20 20 20 21	0.50 0.50 0.50 0.50 0.50 0.50	20.00 20.00 20.00 20.00 20.00 20.00	0 0 0 0 0 0 0 0 0	93.1 97.0 101 102 101 104	36.2 35.6 38.4 42.3 42.2 42.5	114 116 116 118 117 118	4.62 0.103 0.297 9.59 10.0 9.72	32.1 28 37.4 36.2 26.6	
2-Methykraphthalene Acanaphthene Acanaphthene Florenni Phenanthene Anthracene Florennthene Pyrone Benzalanthracene Chrysene	19 19 20 20 20 21 20	0.50 0.50 0.50 0.50 0.50 0.50 0.50	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	0 0 0 0 0	93.1 97.0 101 102 101 104 101	36.2 35.6 38.4 42.3 42.2 42.5 40.8	114 116 116 118 117 118 121	4.62 0.103 0.297 9.59 10.0 9.72 5.39	32.1 28 37.4 36.2 26.6 26.8	
2-Methykraphthalene Aconaphthylene Aconaphthene Ploonene Ploonene Ploonene Ploonene Ploonene Ploonene Benz(a)anthracone Chylaene	19 19 20 20 21 20 21 20 22	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	000000000000000000000000000000000000000	93.1 97.0 101 102 101 104 101 108	36.2 35.6 38.4 42.3 42.2 42.5 40.8 43	114 116 116 118 117 118 121 118	4.62 0.103 0.297 9.59 10.0 9.72 5.39 8.66	32.1 28 37.4 36.2 26.6 26.8 25.1	
2-Methykraphthalane Acenaphthylene Acenaphthene Fhorene Phenanthrene Plavrathene Pyrone Benzfajanthracene	19 19 20 20 21 20 22 22 21	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00		93.1 97.0 101 102 101 104 101 108 103	36.2 35.6 38.4 42.3 42.2 42.5 40.8 43 39.4	114 116 116 118 117 118 121 118 119	4.62 0.103 0.297 9.59 10.0 9.72 5.39 8.66 9.10	32.1 28 37.4 36.2 26.6 26.8 25.1 23.3	
2.Methytrachthulane Acarachthree Floorene Phonante Phonane Alaroanthone Phonan Phonan Benzjajanthracune Chrysene Benzjajanthracune	19 19 20 20 21 20 22 22 21	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00		93.1 97.0 101 102 101 104 101 108 103	36.2 35.6 38.4 42.3 42.2 42.5 40.8 43 39.4	114 116 116 118 117 118 121 118 119	4.62 0.103 0.297 9.59 10.0 9.72 5.39 8.66 9.10	32.1 28 37.4 36.2 26.6 26.8 25.1 23.3	
2.Methytrachthulane Acarachthree Floorene Phonante Phonane Alaroanthone Phonan Phonan Benzjajanthracune Chrysene Benzjajanthracune	19 19 20 20 21 20 22 21 20 22 21 20	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	000000000000000000000000000000000000000	93.1 97.0 101 102 101 104 101 108 103 100	36.2 35.6 38.4 42.3 42.2 42.5 40.8 43 39.4 47.8	114 116 116 118 117 118 121 118 119	4.82 0.103 0.297 9.59 10.0 9.72 5.39 8.86 9.10 5.33	32.1 28 37.4 36.2 26.6 26.8 25.1 23.3	
2 Matrity Applications Aconsphilty level Aconsphilty level Parante Parante Parante Parante Benzil Janne Benzil Janne Benze	19 19 20 20 21 20 22 21 20 22 21 20	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	93.1 97.0 101 102 101 104 101 108 103 100	36.2 35.6 38.4 42.3 42.2 42.5 40.8 43 39.4 47.8	114 116 116 118 117 118 121 118 121 118 119 115	4.82 0.103 0.297 9.59 10.0 9.72 5.39 8.86 9.10 5.33	32.1 28 37.4 36.2 26.6 26.8 25.1 23.3	
2.Methylnachthulane Acanaphthane Acanaphthane Pizorane Pizorane Pizoranthane Pizoranthane Benzolytheonithene Benzolytheonithene Qualifiers: * Value internili, Massim	19 19 20 20 21 20 22 21 20 22 21 20	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	B Analyse E Value at	93.1 97.0 101 102 101 104 101 104 103 103 100	36.2 35.6 38.4 42.3 42.2 42.5 40.8 43 39.4 47.6	114 116 116 118 121 118 121 118 119 115	4.82 0.103 0.297 9.59 10.0 9.72 5.39 8.86 9.10 5.33	32.1 28 37.4 36.2 26.6 26.8 25.1 23.3 22.5	èn
2.Matriyfraydons Aconaphthylons Aconaphthylons Placome Placome Norman Placome Benardylong Planos Benardylong Planos Benardylong Planos Benardylong Planos Benardylong Benardylong Planos Benardylong Planos Planos Planos Planos Benardylong Planos Benardylong Be	19 19 20 20 20 21 20 22 21 20 22 21 20 22 21 20 22 21 20 22 21 20 22 21 20 22 21 20 22 21 20 20 20 20 20 20 20 20 20 20 20 20 20	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	B Analyse E Valoc al J Acatyre	93.1 97.0 101 102 101 104 101 104 103 103 100	36.2 35.6 38.4 42.3 42.2 42.5 40.8 43 39.4 47.6	114 116 116 118 121 118 121 118 119 115	4.82 0.103 0.297 9.59 10.0 9.72 5.39 8.86 9.10 5.33	32.1 28 37.4 36.2 26.6 26.8 25.1 23.3	ě11
2Meirjingschhulses Acaraphhyses Placens Natrashhure Placens Natrases Placens Prens Benzjainhuren Chysen Benzjainhuren Chysen Benzjainhuren Heisens Matthewise Sammic Dhuad Naue i Matthewise Sammic Dhuad Naue i Matthewise	19 19 20 20 21 20 22 21 20 22 21 20 mm Communent) Marrix antables or inallysis	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	B: Analyse P Sample RL Rest	93.1 97.0 101 102 101 104 103 103 100 detected a anyc quart detected a per Not in per Detection	36.2 35.6 38.4 42.3 42.5 40.8 43 39.4 47.6 *Ue association interes response elow quantit Kange an Limit	114 116 116 118 121 118 121 118 119 115	4.62 0.103 0.297 9.59 10.0 9.72 5.39 8.66 9.10 5.33	32.1 28 37.4 36.2 26.6 26.8 25.1 23.3 22.5	en

Client;

Project:

Ansiyas

Sample ID LCS-34996

QC SUMMARY REPORT

Martinez CS Zimmer-ID MB-54596 SempType MBLK Client ID: PBW Batch ID: 34596

Prep Date: 10/24/2017 Analysis Date: 10/25/2017

 Sample ID
 LCS-34896
 SampType:: LCS

 Crimit ID
 LCSV
 Butch ID
 Meture

 Prep Date:
 10/24/2017
 Analysis Date:
 10/25/2017

Hall Environmental Analysis Laboratory, Inc.

Souder, Miller and Associates

Batch ID. 34500

- Page 8 of 11

TestCode: EPA Mathuri 1478. Ministury

SeqNo: 1484756 Units: mg/L

TaniCode EPA Maibod 7478 Marcany Runhur Albeita SanNo 1484759 Uma mg/L

 Result
 PDL
 SPIC Value
 SPIC Ref Val
 %REC
 LowLimit
 HighLimit
 %RPD
 RPDLimit
 Duai

 0.0046
 0.00020
 0.005000
 0
 92.9
 80
 120

RunNo. 46018

Analyte Result PQL SPK value SPK Ret Val %REC LowLimit HighLimit %RPD RPDLimit Qual Mercay ND 0.00020 _____

Work

1710702

#6.Nov-17

QC SUMMARY REPORT

Client:

Hall Environmental Analysis Laboratory, Inc.

-Wer-1710702 10-Nov-11

Souder, Miller and Associates

Sample ID land 34414	Sempl	Type: Lt	Det D	Test	Cute E	PA Minhou	SZTOC PAH	r		
Client ID LCSB82	Bato	6 ID 34	414	5	tuntio: 4	54HG.				
Prep Date: 10/16/2017	Analysis (Date: 1	0/19/2017	5	SeqNo: 1	480926	Units: µg/L			
Analyle	Result	POL	SPK value	SPIC Rul Val	AREC	LowLint	HighLints	S.RPD	RPDUmit	Qual
Bentokjiluorentene	21	0.50	20.00	0	105	40.5	120	5.50	30.0	-
limanúlógynene	20	0.50	20.00	0	101	41.5	115	7.94	21.2	
Diberiz(a.h)amtraceme	29	0,50	20.00	0	99.2	48.6	115	5,70	26.5	
Benzo(g.h./iperylene	20	0.50	20.00	σ	102	42	119	6.76	30.7	
indeno(1,2,3-od)pyrene	20	0.50	20.00	0	98.3	42.9	118	3.63	25.4	
Surr: N-hexadecane	75		87.60		85.7	34.2	111	0	0	
Surr: Banzo(+loynene	17	-	20.00	2.00	85.0	39.3	124	0	9	
Semple ID m6-34414	Samp	Type: M	BLK	Tes	Cule E	PÁ Method	8279G- PAHs	-		
Cilent ID POW	Hald	h IDI 34	414		lanke a	A484				
Prep Date: 10/16/2017	Analysis (Date: 1	0/19/2017	5	SeqNo: 1	480927	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.50								
1-Methylnaphthalene	ND	0.50								
2-Methylnaphthalene	ND	0.50								
Aconaphthylene	ND	0.50								
Acenaphthene	ND	0.50								
Fluorene	ND	0.50								
Phonanthrene	ND	0.50								
Anthracene	ND	0.50								
Fluoranthene	ND	0.50								
Pyrene	ND	0.50								
Benz(a)anthracene	ND	0.50								
Chrysene	ND	0.50								
Benzo(b)fluoranthene	ND	0.50								
Benzo(k)fluoranthene	ND	0.50								
Benzo(#)pyrene	ND	0.50								
Dibenz(a,h)anthracene	ND	0.50								
Benzo(p.h.i)perviene	ND	0.50								
permol@hr/iber/vene	ND	0.50								
indeno(1,2,3-ot)pyrene						Term.				
	78		87.60		18.6	34.2	111			

- Qualifiers:
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 Value retrook Maximum Constraints Licet.

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 Sames Dilated Due to Manré

 III
 Holding toms für programmer anticjen resented.

 DF
 Nei Stockard et die Ropenog Last.

 POL
 Presteid Quanitative Limit.

 S
 % Recovery conside of mage due to dobation or matrix.
- Π
 Analyte detected in the associated Matheal Blank.

 Ε
 Value scheme quantification respir.

 1
 Analyte detection Makear quantities formus:

 P
 Sample PI INN: In Karge

 EL
 Reporting Detections Limit (

 W
 Sample container temperature is out of limit as specified

Page 9 of 11

Barum ND 0.000 Caminan ND 0.0000 Downkan ND 0.0000 Steinium ND 0.0000 Steinium Analyte Result PDL Steinium NRPC Lonkium MSRPD RPDLimit Qual Baruim 0.50 0.0000 0.993 800 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 <th>Hall En</th> <th>vironmen</th> <th>tal Ana</th> <th>lysis I</th> <th>aborat</th> <th>ory, Inc.</th> <th></th> <th></th> <th></th> <th></th> <th>4943#1</th> <th>16-Nav-17</th>	Hall En	vironmen	tal Ana	lysis I	aborat	ory, Inc.					4943#1	16-Nav-17
Clear ID: PBW Balch ID: S4449 RunNo: 44937 Prep Dalini 18472/017 Analyse Dis 8/2917 SiegNo: 1478313 Unite: mgit Analyse Paseuli P00 OUZ SiegNo: 1478313 Unite: mgit Qual Analyse NO 0.020 SiegNo: 1478313 Unite: mgit Qual Analyse NO 0.020 SiegNo: 1478313 Unite: mgit Qual Analyse NO 0.020 SiegNo: Sie				1 Аззоси	ates							
Prep Date 19/17/2017 Anstynes Date 19/18/2017 Step/tor 14/21313 Unital: mig/L Arthyfre Result POLC SPK value SPK real Val Note MighLimit %RPD RPULimit Qual Arthyfre ND 0.0020 Sinter ND Qual Striam ND 0.0020 Sinter ND Qual Striam ND 0.0020 Sinter ND Qual Striam ND 0.0020 Sinter inter Sinter Sinter Sinter Sinter Sinter Sinter Sinter Sinter Sinter Sinter Sinter Sinter Sinter Sinter Sinter <	Sample ID	VB-34440	Samp	Type: Mi	BLK	Tes	Code: E	PA 60100;	Total Recover	able Meta	sla	_
Analyle Result PQL SPK value SPK Ref Val SARE C LoweLine HighLine SURPD RPDLinet Dual Analyle ND 0.020 SARE C LoweLinet HighLinet SURPD RPDLinet Dual Stamm ND 0.020 SURPD RPDLinet Dual Certified ND 0.020	Client ID: I	BW	Bab	ch ID: 34	449	F	tunNo: 4	6437				
Analyte Result POL SPK value SPK ref Val NEPC LowLimit HighLimit SRPD RPDLimit Qual NNIM 0.020 <td>Prep Date</td> <td>10/17/2017</td> <td>Analyses</td> <td>Date: 1</td> <td>0/18/2017</td> <td>-</td> <td>ingNo:</td> <td>479313</td> <td>Unite mal</td> <td></td> <td></td> <td></td>	Prep Date	10/17/2017	Analyses	Date: 1	0/18/2017	-	ingNo:	479313	Unite mal			
Anamic NU U.GU Balam ND 0.0020 Carrivan ND 0.0020 Carrivan ND 0.0020 Carrivan ND 0.0020 Stamm ND 0.0020 Stamm ND 0.0050 Stamme 104772017 Analysis Date: 101182017 SeqNo: 1479314 Units: mg/L Analysis Rescription Date: 101182017 SeqNo: 1479314 Units: mg/L Qual Internet 0.032 0.5000 0 100 120 Date: 101120 Date: 10112 Bo 120 Carbinam 0.51 0.0000 0.5000 0 101 Bo 120 Carbinam 0.52 0.0000 0.5000	Anabte		Decult	DOI	CDV unkun					# P00	DOOI imit	Ound
Carrison ND 0.0000 Dissistant ND 0.0000 Stand DempTyper LC3 TrainEcolo: EX-9010B: Turial Resourcementate Metails. Climel ID LC304 Batch/ID: Stands Res/Test Res. Analyte Result // ID: SPR Ref Vall SR/REC LocAtm HighLimit SR/RD Analyte Result // ID: SR/REC LocAtm HighLimit SR/RD Result // ID: Carrison 0.000 0.5000 0 102 EX LocAtm HighLimit SR/RD Result // ID: Carrison 0.000 0.5000 0 101 B0 120 EX EX Carrison 0.500 0.0000 0 101	Arsenic				OF IN VALUE	JPK IVELVAL	WREG	COWDITIL	rigitoria	Jane D	REDLINIL	Quai
Onumber ND 0.0000 Land ND 0.0050 Service Service Nr. 448175 Units: mg/L Cherk HD: LCSW Batch HD: 564/04 479314 Units: mg/L Analysis Testification 564/04 NEEC LowLine Hsp/Line 566/04 Analysis 0.002 0.0000 0 102 80 120 120 Canalar 0.000 0.0000 0 104 80 120 120 120 Canalar 0.000 0.0000 0 104 80 120 120 120 Canalar 0.000 0.0000 0 104 80 12	Barium		ND	0.020								
Land ND 0.0050 Shar Dempi Tjac LCF TwellCubit EPA 6019B. Tubit Mealstree Dimel ID: LDSW Batchilt: SMAR Rimino: 44957 Prop Date: 10172017 Analysis Date: 10182171 Service 148 NEEC Lowin: 1020 Analyte Result POL SFK value SFK efVal NEEC Lowin: 1020 Poll Result Qual Analyte Result OLZ SS000 0 1627 80 120 90 120 Gathard 0.020 0.0000 0 93.8 80 120 90 120 Bannin 0.0000 0.0000	Cadmium		ND	0.0020								
Samuel ND 0.056 Star Star Star Star Star ND 0.056 Star Disrd LCSW Batch 10: 36448 Tum070x 46457 Units: mg/L Analyte Resk POL Str.Vanis Str.Vanis Add 17314 Units: mg/L Add 17314 Amark Resk POL Str.Vanis Str.Vanis Add 17314 Units: mg/L Add 17314 Mark Batch 10: 3600 0 667 56 130 Caula Mark 0.50 0.006 0.5000 0 101 86 120 120 Contribut 0.502 0.0060 0.5000 0 104 80 120 120 Samplif ID LLLCB-34449 Simplif 70: LCSL Teaching at 457 100 100 100	Chromium		ND	0.0000								
Star ND 0.0050 Strongh D LGD-544449 Dempit Type: LCP TwetiClob: EPA 4917BR. Yuria Resurgerunde Meriais. Dimet RD: LCDW Balatit HD: 34448 Rumino: 44437 Prop Date: 101772017 Analysis Date: 10182217 Service 14437 Analyte Result PDL SPK value SPK ref Val NREC LowLin: 1987 Analyte Result PDL SPK value SPK ref Val NREC LowLin: 1987 Qual Analyte Result PDL SPK value SPK ref Val NREC LowLin: 1987 Qual Analyte Result 0.020 0.5000 0 1627 80 120 Dimet Di LowD 0.000 0 101 80 120 Dimet Di LotA 0.000 0 102 LotA 120 Dimet Di LotA 120 Dimet Di 120 Dimet Di <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>												
Complet ID LOC Convertient Demplet ID LOC Convertient Result Qualt Result Qualt Result Qualt Result Qualt Result Qualt Qualt Result Qualt												
Diller III: LCSW Batch III: 34448 Ruinto: 4437 Prip Date: 101172017 Analysis Date: 101182017 See/No: 473314 Units:::mg/L Analysis Rest. POL SPK states SPK ruines SPK ruine	Silver		ND	0.0050								
Prep Date: 10/17/2017 Anstynk Date: 10/16/12017 SeqNo: 14/79314 Units: mg/L Arabje Result POLD SPK value SPK ref Val NREC LowLimit HighLimit %RPD RPDLimit Qual Martine 0.53 0.000 0.5000 0 102 80 120 Samuri 0.51 0.0000 0.5000 0 102 80 120 Colmium 0.50 0.0000 0.5000 0 101 80 120 120 Commun 0.50 0.0000 0.5000 0 102 80 120 120 Commun 0.50 0.0000 0.5000 0 108 80 120 120 Semisim 0.52 0.0500 0.5000 0 108 80 120 120 Semisim 0.511 0.0560 0 106 80 120 120 120 Wheth ImmuTryee	Sigmple ID 8	05-54449	Semp	Type: LC	.9	Tan	Cube E	PA 10198	rotal Resover	alde Maria	da.	
Analyte Result PGL SPK statue SPK Ref Val MERC LowLinit HighLinit SRPD RPDLinit Qual Anterner 0.53 0.020 0.5000 0 167 80 130 Statum 0.51 0.020 0.5000 0 162 80 120 <t< td=""><td>Client (D: 1</td><td>CSW</td><td>Bab</td><td>5.10. 34</td><td>448</td><td></td><td>winter 4</td><td>6457</td><td></td><td></td><td></td><td></td></t<>	Client (D: 1	CSW	Bab	5.10. 34	448		winter 4	6457				
Anunic 0.3.3 0.030 0.6000 0 107 80 120 Samular 0.54 0.0000 0.5000 0 98.7 10 120 Calinian 0.54 0.0000 0.5000 0 98.7 100 120 Calinian 0.54 0.0000 0.5000 0 101 80 120 Calinian 0.50 0.0000 0.5000 0 99.3 80 120 Service 0.52 0.500 0.5000 0 104 80 120 Service 0.51 0.0050 0.5000 0 104 80 120 Service 0.51 0.0056 0.5000 0 104 80 120 Service 0.51 0.0058 0.5000 104 80 120 Service 0.511 0.0058 0.5000 1048 80 120 Diret 105 Saturdo Baturktod Baturktod <t< td=""><td>Prep Date:</td><td>10/17/2017</td><td>Analysis</td><td>Date: 1</td><td>0/18/2017</td><td>5</td><td>SeqNo: 1</td><td>479314</td><td>Units: mg/L</td><td></td><td></td><td></td></t<>	Prep Date:	10/17/2017	Analysis	Date: 1	0/18/2017	5	SeqNo: 1	479314	Units: mg/L			
Samuri D.S.G D.S.TI D.S.SOD S.S.SOD S.S.SOD S.S.SOD S.S.SOD S.S.SOD S.S.SOD S.S.SOD S.S.SOD S.S.SOD <ths.s.sod< th=""> <ths.s.sod< th=""> <ths.s.s< td=""><td>Analyte</td><td></td><td>Result</td><td>PQL</td><td>SPK value</td><td>SPK Ref Val</td><td>%REC</td><td>LowLimit</td><td>HighLimit</td><td>%RPD</td><td>RPDLimit</td><td>Qual</td></ths.s.s<></ths.s.sod<></ths.s.sod<>	Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Saturium 0.52 0.050 0.500 0 104 80 120 Sharry ID LLLCh-34449 Simuli Tyse: LCSLL Test:Tode: EPA 80/480: Total treasmenties Minise Test:Tode: EPA 80/480: Total treasmenties Minise Test:Tode: EPA 80/480: Total treasmenties Minise Direct ID: LLLCh-34449 Simuli Tyse: LCSLL Test:Tode: EPA 80/480: Total treasmenties Minise Prop Date: 1011722017 Analysis Date: 10118/2017 SeqNo: 1479315 Units: mg/L Arabyte Result: POL0. SPK red/usi: MREC. LowLink: HighLink: Qual Arabyte ND: 0.0000 0.0110 50 150 Bateline: ND: 0.0000 0.00500 0 106 50 Cathium 0.0022 0.0060 0.00600 116 50 150 Cathium 0.0060 0.00600 0 168 50 150 Lead ND 0.0050 0 50 150 150												
Sheer 0,11 0.0060 0,1000 0 100 0.0 100 100 100 Sample ID LLIC3-34448 Rem/Tywe LCBUL TestCode (PAA 69/30: Testal Recoverrable Menia) TestCode (PAA 69/30: Testal Recoverrable Menia) Dent ID: Batch/DC Balch/DC Balch/DC Balch/DC TestCode (PAA 69/30: Testal Recoverrable Menia) Prop Date: 104172/01 Analysis Envide: abstract/DC TestCode (PAA 69/30: Testal Recoverrable Menia) Analysis 104172/02 Analysis Envide: abstract/DC No Analysis Result POL SPK value SPK Ref Val SREC Low/Linit MRPD RPDLinit: Qual Momini: MOD 0.0000 0.0000 0.0110 60 150 Commini: Qual Qual 0.0000 0.0000 0.0110 60 150 Commini: Qual Qual 0.0000 0.0000 0.0110 60 150 Commini: Qual Qual 0.0000 0.00000 0.110												
Stemplet ID LLLCB-34449 SimmUTyper LCBLL TextElCode EPA 691490:: Testal Recoverable Metals Dimit ID Baldek/DC Baldek/DC Baldek/DC Baldek/DC Baldek/DC Baldek/DC Prep Date: 10/17/2017 Analysis Date: 10/18/2017 Sec/No: 1479315 Units: mg/L Analysis Result POLL SPK value SPK Ref Val SPK Ref Val <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>												
Dimetri Di Batchi Di XALAGI Denution Analysis Data Dimetri Di KALAGI Denution Analysis Data Dimetri Di KALAGI Denution Analysis Dimetri Di KALAGI Denution Analysis Dimetri Di KALAGI Denution Analysis Dimetri Di Markin Second 1479315 Units: mg/L Analysis Result POLL SPK value SPK Ref Val	Sher		0,11	9.0066	0.1000	0	106	80	120			
Prep Date: 10/17/2017 Analysis Date: 10/16/2017 SeqNo: 14/79/315 Units: mg/L Arolyfic Result POL SPK real/se SPK Ref Val SREC LowLinet HighLinet %RPD RPDLinit Quat Analysis 0.0255 0.02000 0 91.4 50 150 Units: mg/L Quat Analysis 0.0202 0.02000 0 110 50 150 Units: mg/L Guat MG 0.0202 Concolumn 100 100 150 Units: mg/L Units: MG 0.0202 Units: MG 100 Units: MG 0.0202 Units: MG 0.020 Units: MG 100 Units: MG Units: MG Units: MG 100 Units: MG Units:	Sample ID 1	LLCS-34449	Samp	Type: LC	BLL	Tasi	Code E	PA 60100:	Total Recover	oble Met	ée.	
Ansiyte Result POL SPK value	Dient (D: 6	latch-00	Bai	shith 14	440	5	ender a	6612				
Atomic ND 0.0250 0.02000 0 91.4 50 150 Banum NDD 0.0250 0.02000 0 83.9 40. 140.0 Commun 0.0022 0.00200 0 110 50 150 Chromium 0.0028 0.00000 0 110 50 150 Lawid ND 0.0050 0.00500 0 50.8 50 150 Banume 0.054 0.00500 0 50.8 50 150	Prep Date:	10/17/2017	Analysis	Date: 1	0/18/2017	5	ieqNo: 1	479315	Units: mg/L			
Baruin ND 0.000 b00000 0 150 550 150 Casmium 0.0022 0.00200 0 110 50 150 Commun 0.0069 0.00600 0 116 50 150 Commun 0.0069 0.00600 0 150 150 Level ND 0.056 0.00500 0 50.8 50 150							%REC		HighLimit	%RPD	RPDLimit	Qual
Clashium 0.0022 0.00200 0.00200 0 110 50 150 Chromium 0.0069 0.00600 0 118 50 150 Lasid NID 0.0560 0.00500 0 50.8 50 150 Lasid NID 0.0564 0.05000 0 108 50 150												
Dimension 0.0069 0.00690 0.00600 0 116 50 150 cevid ND 0.0590 0.05000 0 50.8 50 150 cevid 0.054 0.05000 0 168 50 150												
Lead ND 0.0050 0.005000 0 50.8 50 150 0.054 0.050 0.05000 0 108 50 150												
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anner 0.0053 0.0050 0.005000 0 107 50 150												
	aavar		0.0055	0.0050	0.005000	U	107	50	150			

Qualifiers: • Value circuits Maximum Continuous Lavel. 0 Sample Obiand Date to Mairix 11 Initialing times for preparation or avalysis exceeded ND Not Denvice at the Koporting Limits POC Practical Quantitative Limit POC R Analyte denormal in the associated Medica Raise: L Value before constitution runne Analyte denormal denormalitation lemma Sample perfixed before granulation lemma R. Reporting Detection Limit W Sample container temperature is out of limit as specified

Page 10 of 11

 Qualifier:
 •
 Value receeds Maximum Contamunant Level.

 D
 Sample Diluted Due to Matrix
 Il
 Ilding ums for preparation or analysis essended

 ND
 Sample Diluted of sole preparation or analysis essended
 No.
 Sample Diluted of sole preparation or analysis essended

 ND
 Sample Diluted of range due to dubation or matrix
 Sample due to dubation or matrix
 Sample due to dubation or matrix

Analyse areceles in the associated method isaank
 Value above equantitation range
 Analyse detected before quantitation limits
 Sample pf1 Nov. In Sange
 R. Reporting Detection Limit
 W Sample container temperature is out of limit as specified

B Analyte detected in the associated Method Blank



Page 11 of 11

ANALYS	SIS ATORY	Hall Environmenia Mi 1912. 545-545-5775 Wabile www.h	FUAL 505-34	1 4 47707 Sam	iple Log-In C	heck List
Client Name: 3	SMA-FARM	Work Order Number	1710702	1.1	Ricothio	1
Received By	Anna Thoma	10/12/2017 7:05:00 A	u ·	an A-	-	
Completed By:	Anne Frierre	10/12/2017 12:41:56 6	M	an A.		
Reviewed By:	DDS	10/12/17		con A-	-	
Chain of Custo	odv					
1. Cusindy meals	intest on semple bottlet	P	in I	No 🗔	No Prima	
2 Is Chain of Cu	stody complete?		Van 52	No 🗂	Mar Presoni	
3. How was the s	ample delivered?		Courier			
LogIn						
4. Was an attem	pt made to cool the sam	ples?	res 🔽	NO 🗆	NA 🗔	
5. Were all samp	res received at a lampe	nature of >0" C to 6.0"C	Yes M	No 🗔	NA 🗆	
5. Sample(s) in p	soper container(s)?		Ves 🗹	No 🗔		
7. Sufficient same	ple volume for indicated	test(s)?	Yes M	No 🗆		
B, And samples (a	WORDE VOA and ONG) p	roperly preserved?	10-50	Ka Na Sa		
D. Was preserved	ive added to bothlos?		Yes X	A not	NA	
10 VOA vials have	zero headspace?		Yes M	No 🗌	No VOA Viels	
11. Were any sam	ple containers received	broken7	Yes 🗐	Na R	# of preserved	
	k maich bothe woele? noise on chein of custod	97	Yes M	M0 🗆	turpH:	r>12 unless noted
	meetly identified on City		me M	No I	Advision	RS
	analyses were requests		Yes M	No 🗆		N-
	g times able to be mel? stomer for authorization)	Ven 10	No 🗔	Checked by	Ke
Special Handlin	g (if applicable)					
16. Was client notif	fied of all discrepancies	with this order?	Yes 🗆	No 🗆	NA 🗹	
Person N	lotified:	Date				1
By Whom		Vier	di KaMa	Phone Plax	In Person	- C

	nt Instructions						
7. Ashillonal	comente Fa	netals	analyse,	THE HAD	, was a	Ide to -	one. Equiple
a materia	dimension in	wee l	211 24	hes fin	in to my	Miss	1555 0
Cooker	No Temp 4	C Condilio	i Swillite	1 Seel No	Smithin	Second By	Interior
H	1.0	Good	Yes	a l'accentra l'			indiadi 2. C

HALL ENVIRONMENTAL ANALYSIS	Hall furthermannal analysis Laboratory 990 Harvison RE (Bayerooper WH 1000- 7222, 2015 is 3: 047 3; 424 5; 435 4; 447 726 and 75 7; 424 5; 425 4; 435 4; 447	Hall Environmental Ana	lysis Laborat
LABORATORY	A DESIGN AND A DESIGN	CLJENT: Sonder, Miller and Assoc Project: Caprock BGT	antes
May 16, 2017		Lub ID: 1704C71-001	Matrix: A
Ashley Maxwell		Analyses	Result
Souder, Miller and Associates 401 W. Broadway Farmington, NM 87401		EPA METHOD 7470; MERCURY Marcary EPA 60108; TOTAL RECOVERABL	4n
TEL: (505) 325-5667 FAX (505) 327-1496		Arsenic Ranum Dadmium	N0 80 ND
RE: Caprock BGT	OrderNo.: 1704C71	Chromium Leiad Selenium ditrer	ND ND ND
Dear Ashley Maxwell:		EPA METHOD 8270C: PAHS	ND
Hull Environmential Analysis Laboratory reserved analyses presented in the following report. These weres analyzed according to EPA proceedures tests pleuse go to <u>www.hullenvironmental.com</u> or properly interpret your results, it is imperative that See the sample checklist and/or the Chain of Casta ample receipt temperature and precervation. Data provided if the sample analysis or analytical qualit When necessary, data qualifiers are provided on bo QC summary report, both sections should be revie received, unless otherwise indicated. Lab measure parameters that require analysis within 15 monutes chlorine are qualified as being analyzed outside of	or equivalent. To access our accredited he state specific web sites. In order to you review this report in its entirety, dy for information regarding the spallfices or a narrative will be control parameters require a flag, dth the sample analysis report and the wed. All samples are reported, as ment of analytes considered field of sampling such as pit and residual	Neghthagain 1-Meitry Vaghthalama 2-Meitry Vaghthalama Aomard Visiens Aomard Visiens Aomard Visiens Piloran Piloran Piloran Piloran Banci () Piloran Banci () Piloran	
Please don't hesitate to contact HEAL for any addi	ional information or clarifications.	Indeno(1,2,1-cd)pyreme form, t+ hoxiadecarea	ND 09.7
ADHS Cen #AZ0682 - NMED-DWB Cen #NM	9425 - NMED-Micro Cert #NM0190	EPA METHOD 82608: VOLATILES	72.4

Sincerely,

and

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

District I 1925 N. Frends Dr., Hale	In. HAT KEND	Sta	te of New Mexico	0	1	· · · ·	Form C-1
District II 1301 W. Granil Avenue.			erals and Natural F				Nuvised 00/01
District III 1000 Ris Brauns Beaul, A			onservation Divis		"Sorline Wante	Mangement	Failing Operation
District TV			South St. Francis		"Souline Waste and General documentation a	or-shall mare vailable for 15	walan mineti
1220 S. St. Drawin Dr., S			nta Fe, NM 87505			_	
1. Generator Nam		FOR APPR	OVAL TO A	CCEPT	SOLID WA	STE	
	rvices, LLC, 614 Reil	ly Ave, Parmingi	on NM 87401	-			
2. Originating Sit MAPL White I	er Lakes Pumping Statior				est.		
3. Location of Ma UL B Section 16	iterial (Streel Address Township 95 North R	, City, State or U ange 29 East; 33.	LSTR): 539365, -103.987765	5			
4. Source and De	scription of Waste:						_
Source: Water/Oil	from the Non Exempt V	Waste Water Tanks	and from the compr	essor skid d	mins		
Description: Non E Estimated Volume	xempt/Non-Hazardoux 80_vd ³ (bbl) Know	Water from the com in Volume (to be o	ngressor skids. ntured by the operate	or at the end	of the famil)	98 _n	TOW
5.	GENERAT	OR CERTIFICA	TION STATEMEN	VT OF WA	STE STATUS		
I. Thomas Long	ta inspirementation	r sutherward arrest	for University Dealer	en Deserti	is da henda		
Generator Sig	, representative m	amonitaed agent	for Enterprise Produ	cis Operatio	ng no hereny		
certify that according	g to the Resource Com ation, the above describ	ervation and Reco	very Act (RCRA) an	d the US Easification)	vironmental Pro	tection Age	ncy's July 198
	mpt: Oil field wastes g	enerated from ail a	and gas exploration a	and producti	on operations an	d are not mi	ed with non-
NI DITRA NUM							a state of the
characteristics e	-Exempt: Oil field was stablished in RCRA re- mended. The following items)	gulations, 40 CFR	261 21-261 24, or li	sted hazardi	un wante us defi-	ned in 40 CF	R. part 261.
MSDS Informati	on S RCRA Hazard	down Wante Analys	sia 🖾 Process Kno	wiedge [Other (Provide	description	in Bot 4)
GENER	ATOR 19,15,36.15 W	ASTE TESTING	CERTIFICATION	STATEM	ENT FOR LAN	DFARMS	
74	and long						
I, Thomas Long	. representative	for Enterprise Pro	docts Operating auti	horizes Agu	Moss. LLC to a	samplefe	
Generator Sign the required testing/s	sign the Generator Was	te Testine Certific	ation				
	-	1	anou.				
l,	, representati		Agua Moss, J	LLC	do here	by certify th	at
have been found to g	les of the oil field waste conform to the specific samples are attached to	requirements appl	scahle to lendlarms p	romunt in S	iection 15 of 19.1	5.36 NMA	. The mails
19.15.36 NMAC.		and an and a second second	and the service of th	as sourceast	a me requiremente	and the second	
5. Transporter: T							
OCD Permitted St	urface Waste Manage	ment Facility					
	Permit #: "Agua Mosi SW/4 NW/4 Section			m, NM			
			and a second the				
Method of Treatment a		tion Trents	ng Plant 🔲 Land	farmt 🗖	Landfill D.C.	liber	
Waste Acceptance				min []		ding.	
	adda ad	APPROVED	0	DENIER	(Must Be Maint	tained As Pe	manent Record
PRINT NAME:	William Clark	40	TITLE- 2	2100	tor		91291
	100000 11000	621	TULE. C	per sh	811	DATE	110.7111

fall Euvironmental Analysis	Labors	atory, Inc.			Analytical Report Tab Onles 1704C71 Date Reportal: 5/16/20	17
LTENT: Souder, Miller and Associates referet: Caprook DGT ab ID: 1704C71-001	Matrix:	AQUEOUS	Collection	Date: 4/2	prock BGT 6/2017 2:15:00 PM 8/2017 9:30:00 AM	
nalyses	Result	PQL Qual	Units	Df	Date Analyzed	Batch
PA METHOD 7470: MERCURY				_	Analyst	MEG
Marcury	60	n.08636	mak	1	6/8/2017 3:20:07 PM	31000
PA 60108: TOTAL RECOVERABLE ME	TALS				Analyst	
Arsenic	NO	5.0	-	1.00		
Barlon	NO	100	mg/L.		5/9/2017 11:27:58 AM	31602
Cadmium	ND	1.0	mg/L		5/0/2017 11:27:58 AM	31602
Chromium	ND	5.0		1.1	6/9/2017 11:27:58 AM	21600
Lend	ND	5.0	mpt.	1	6/9/2017 11:27:58 AM	31602
Selenium	ND		mg/L	-1	5/9/2017 T1:27:58 AM	31602
Silver	ND	1.0	mg/L	1	5/9/2017 11:27:58 AM	31602
STUP	CALL .	5.0	mgiL		5/8/2017 11:27:58 AM	31803
A METHOD 8270C: PAHS					Analyst	DAM
Maphthalastas	NID	0.56	August .	14	\$/10/2017 3:04:56 PM	31620
I-Medvyloaphtmixme	NE	0.50	1991	3	5/10/2017 3:04:56 PM	31520
MultyInaphibalene	NO	0.59	DOIL.	1	6/10/2017 3:04:58 PM	31520
ormaphinytene	ND	0.50	ust		5/10/2017 3:04-56 PM	315210
cenaphthene	ND	0.50	ug/L	1	5/10/2017 3:04:56 PM	31520
luorene	ND	9.50	NOL	1	5/10/2017 3:04:56 PM	31520
Phonendicere	MD	0.50	NUL		5/10/2017 3:04:56 PM	31520
nuvacenn	ND	0.50	AND.		5/10/2017 3:04:58 PM	31520
Flooranthene	ND	640	UPL		\$/10/2017 3:01:56 PM	31520
yrene	ND	0.50	µg/L	1	5/10/2017 3:04:56 PM	31520
lonz(a)anthracene	ND	0.50	LOL	1	5/10/2017 3:04:56 PM	31520
Chrysene	ND	0.50	Lat	1	5/10/2017 3:04:56 PM	31520
anzo(b)Auominimene	ND	0.00	HOR		5/10/2017 3:04 56 PM	E1620
anami(k)/Recordentivence	ND	0.50	HOL	Ť.	5/10/2017 3:04:56 PM	31520
lenzo(a)pyrene	ND	0.50	ugit	1	5/10/2017 3:04:56 PM	31520
Dibooz(a.tr)anthraicene	ND	0.50	UDIL		5/10/2017 3:04:56 PM	31520
imtzci(d.h. Sperylene	ND.	0.50	HB/L	1.1	6/10/2017 3:04:56 PM	31520
deno(),2,3-ot)pyrene	ND-	0.50	Lot.		5/10/2017 3:04:56 PM	31520
Gun, N-hexadecare	0967	15-176	NHer:	-		
Sur Benzolalaytena	72.4	15-114	ALRec .			31520
A METHOD 82608: VOLATILES	12.4	10-190	Mat			
					Analyst:	rde
enzene. cluerer	MD	200	NUS.	200	4/28/2017 8:00:00 PM	R4245Y
	ND	200	pyr	200	4/28/2017 6:00:00 PM	R42451
thylbenzane	ND	200	µg/L	200	4/28/2017 6:00:00 PM	R42451
why terr-buly after (MIBE)	MD	200	Light	203	A/28/2017 6:00,00 PM	FM2451
2.4-Trimenty/benzena	MD .	200	1991	200	4/28/2017 6:00:00 PM	1142457
3.5-Trimettylbeizene	ND	200	HOL			RAUNST
2-Exchikaroe@nerror (EEDC)	ND	200	HOL.	200	4/28/2017 6:00:00 PM	R42481
Refer in the QC Summary report and	sample log	in checklist for fla	ggod QC d			
illiere: » Unive exceeds Maximum Conta	minut Lord		Anabras	improved to	associated Method Islank	
D Sample Diluted Due to Matrix	A VL					
H Holding times for preparation or	mahair		vator ab	ove quantitat	ion range	
ND Not Detected at the Reporting I.		reded	Analyte o	screeted below	v quantitation limits Page	1 of 11
R RPD outside accepted recovery		R	compile b	IT rot in Ital	-Re	
in an ensemble manpled recovery	arris 63	R	L Keportini	g Detection L	AND A CONTRACT OF A CONTRACT.	

Hall En	viro	nmental Analysis	Labora	tory, Inc.			Analytical Report Eab Onlin 1704C71 Date Reported: 5/16/20	17
CLIENT:	Soude	- Miller and Associates		(Clien	Sample ID: (Taprock BGT	
Project:	Cam	ck HGT			Coll	ection Date:	26/2017 2:15:00 PM	
Lah ID;	17040	1.001	Manuface	AOUTEOUS			28/2017 9:30 DO AM	
Cani IIV.	Trone	TROOT	Statrice .	AQUINODS	ice	cerved Dute: «	02102010 9530.00 AM	
Analyses	_		Result	PQI. Qual	Un	ix D	F Date Analyzed	Batch
CPA METH		2008: VOLATILES					Analyst	rde
1.2-Dibron	riginities	(BCI3) WI	2400	0.000	μġ	L 3	100 4/28/2017 6:00:00 PM	RASAST
Naphthaia	ne		NO	400	1.9	L .7	00 4/28/2017 6:00:00 PM	R42451
i-Methyin,			INL/	800	19	E :3	00 4/28/2017 6 00 00 PM	R42451
ZMalbyin	ophilhai	ALL N. L.	NET	800	- HO	L 3	10 4/25/2017 6:00:00 PM	R42451
Acetone			ND	2000	.10	L .3	00 4/25/2017 6.00:00 PM	R42451
Bromobern	tone		ND	200	19	L 2	00 4/28/2017 6.00.00 PM	R42451
Bromodich	hiorome	thane	ND	200	µ9	L 2	00 4/28/2017 6:00:00 PM	R42451
Bromptoco	1		ND	200	10		00 4/25/2017 6:00:00 PM	H#2451
Brammen	tune .		ND	.000	-99		00 4/25/2017 6:00:00 PM	642451
2-Butanen	a 🗆		NO	2000	Va		00 4/25/2017 6:00:00 PM	R42451
Carrison da	NITCH.		NO	2000	NO		00 4/25/2017 6 00:00 PM	R42451
Carison Ta	Inacreio	non	ND	200	Un		00 4/28/2017 6:00:00 PM	R42451
Chiprolema	2,000		ND	200	10		00 4/25/2017 B:00:00 PM	R42451
Chicroetha			ND	400	ha		00 4/28/2017 6:00:00 PM	R42451
Chloroform	n		ND	200	HQ		00 4/28/2017 6:00:00 PM	R42451
Chiermat	formal		ND	600	UQ		00 4/28/2017 6 00:00 PM	R42451
2-Chloroto			ND	200	10		00 4/28/2017 6:00:00 PM	R42451
4-Chloroto			ND	200	P9		00 4/28/2017 6:00:00 PM	R42451
CIN-1.2-DC			NO	200	10		00 4(28/2017 0:00:00 PM	R42451
09-1,5-00		-	ND	200	- 140		00 4/28/2017 6:00:00 PM	1642451
		loropropiana	ND	400	90		00 4/28/2017 6:00:00 PM	R42451
Dilmmand			THE	100	NO		00 4/28/2017 6/00:00 PM	H42451
Dibiomom			ND	200	10		00 A/28/2017 6 00:00 PM	RADADT
1.2-Dichlor			ND	200	HU		00 4/28/2017 6 00 00 PM	R42451
1,3 Olichiles			ND	200	19		00 4/20/2017 0.00.00 PM	R42451
1,4-Dichlor			ND	200	P9		00 4/28/2017 6:00:00 PM	R42451
Dichisrooli			ND	200			00 4/28/2017 6:00:00 PM	R42451
1.1-Ochies			ND	200	- 98			
1.1-Dichio					ug/		00 4/28/2017 6:00:00 PM	R42451
1,2-Okchior			ND	200	40		00 4/25/2017 6:00:00 PM	R42451
			ND	200	PD/		00 4/28/2017 6 00 00 PM	R42451
1.3-Cichles			ND	200	100		00 4/28/2017 0:00:00 PM	R42451
2,2-Dictrio 1,1-Dichlor			ND	400	10		00 4/25/2017 8:00:00 PM	R42451
1,1-Dichior			ND	200	99		00 4/28/2017 6.00:00 PM	R42451
		ene	ND	200	P9/	-	00 4/28/2017 6:00:00 PM	R42451
2-Heikanon			NO	2000	10		08 4/28/2017 5:00:00 PM	R42451
instandation			ND	200	14		00 4/28/2017 6:00:00 PM	R42451
4-Isopropy			ND	200	(Pal		00 4/28/2017 6:00:00 PM	R42451
4-MMDy1-2			ND	2000	10		00 4/28/2017 8:00:00 PM	H42451
Manylore	Ehkak	30	ND	800	10	2	00 4/25/2017 B-00 00 PM	943461
Refer to the QC Summary report a		e QC Summery report an	d sample logi	n checklist for f	logge	preservation information	ø.,	
QuillBers		Value exceeds Streampre-Con				hialyte detected i	n the associated Method Blank	
	D	Santary Dilator Due to Matrin			E 1	value above quant	titation range	
	H	Fielding times for preparation			1	Amilyte detocred h	adree quantization limits Plags	2.41 (2)
	ND	Not Determined at the Reporting	Timit		D	inspie phi Not in	Ringe	and at
	R	RPD muside accepted recover	y limits	1	RL I	Reporting Detection	so Limit	
	5	15 Recovery outside of range	the production of	a managine	W 3	Complete supplicities of	emperature is out of limit as a	builting.

Hall Environmental Analysis	Lair Onler 1784C71 Dair Reported, 5/16/2017							
CLIENT: Souder, Miller and Amoetates Project: Coprock BGT Lab ID: 1704C71-001	Matrix	Client Sample ID: Caprock BGT Cultertion Date: 4/26/2017 2:15:0 Mutrix: AQUEOUS Received Date: 4/26/2017 9:36:0						
Analyses	Result	PQL Qual	Tinita -	DF Date Analyzed	Batch			
EPA METHOD \$2608: YOLATILES				Analysi	rda.			
in-Bulytbergener	MO	000	Hat	200 4/26/2017 6:00:00 PM	124245			
n-Propylbananie	ND	200	UpL	200 4/28/2017 6:00:00 PM	R42451			
amo-ge//apennania	NU	200	UDE	200 4/28/2017 6:00:00 PM	H42451			
Styteme	ND	200	Upt	2581 4/28/2017 8:00:00 PM	R42451			

EPA METHOD \$260B: YOLATILES				Analysi	rde.
in-Bulytbendener	MO.	800	uat	200 4/26/2017 6:00:00 PM	R42451
n-Propylbinanie	ND	200	VOL	200 4/28/2017 6:00:00 PM	R42451
INC-BUTYDEITMITT	NU	200	UDE	200 4/28/2017 6:00:00 PM	H42451
Styteme	ND	200	upt	2011 4/25/2017 8:00:00 PM	R42451
tort-Butytbenzene	ND.	200	ugh	200 4/25/2017 6:00:00 PM	R42461
1,1,1,2-Tetrachtoroetmane	ND	200	ugit	200 4/28/2017 6:00:00 PM	R42451
1,1,2,2-Tetrachloroethane	ND	400	µg/L	200 4/28/2017 6:00:00 PM	R42451
Tetrachloro-illivine (PCE)	NO.	200	MOR	200 A/25/2017 6:00:00 PM	R#2451
trans-1 2-OCE	ND.	200	ugit	200 4/28/2017 8:00:00 PM	F042451
Wars-1.3-Olowwopropeve	ND.	200	000	200 4/28/2017 6:00:00 PM	R42451
1, Z, 3- TRENORGENITZIERIN	ND	200	HD/L	200 4/25/2017 6:00:00 PM	1942451
1,2,4-Tribisondercone	ND	200	ug1.	200 4/28/2017 6 00:00 PM	R42451
1.1.1-Tochlorowifiane:	ND	200	UQ/L	200 4/28/2017 6:00:00 PM	R42451
1,1,Z-Trichloroethane	ND	200	µg/L	200 4/28/2017 6:00:00 PM	R42451
Trichloroethene (TCE)	ND	200	µg/L	200 4/28/2017 6:00:00 PM	R42451
Trichhedlacrometsens	ND	200	UD/L	200 4/28/2017 6:00:00 PM	R42451
1,2,3-Trichloropropanic	ND	400	HB/L	200 4/28/2017 8:00:00 PM	R42451
Vinyl chloride	ND	200	µg/L	200 4/28/2017 6:00:00 PM	R42451
Xylenes, Total	ND	300	µg/L	200 4/28/2017 6:00:00 PM	R42451
Surr: 1.2-Dichloroethane-d4	88.3	70-130	%Rec	200 4/28/2017 6:00:00 PM	R42451
Sur: 4-Bromoffuorobenzene	104	70-130	SiRec	200 4/28/2017 6:00:00 PM	R42451
Sun: Dibromofluoromethane	100	70-130	%Kec	200 4/28/2017 6:00:00 PM	R42451
Surr: Toluene-d8	102	70-130	%Rec	200 4/28/2017 6:00:00 PM	R42451

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information. Tel the QC Summary report and sample logic recentse for hagged QC and and prederation intermation.
 Value executed Maximum Contamisant Levit. B Analyte detected in the associated Method Blank
 Sample Dated Date to Matter
 Tel Mathyna lines for expension or analytic second I
 Multiply lines for expension or analytic second I
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 Simple continues temperature if and of lines as questified.
 Multiply lines are second or respectively.

Ampletical Report

With (704C-1) 12.Map.J 5	QC SUMMARY REPO Hall Environmental Analy	
	Client: Souder, Miller and Project: Caprock BGT	Associates
82008 VOLATILES	Trample ID' vts samp)	YOU MELLIN TUBICAN
	CitorA (D. PBW Bald	ID. R42451 Rund
Linita: ug/t	Prep Date: Analysis D	ate: 4/28/2017 Seq1
HighLimit WRPD RPDLimit Qual	Analyte Result	PGL SPK value SPK Rel Val. M
130	4-Chlorotoluene ND	1.0
130	dis-1.2-DCE ND	1.0
1.00		1.0

Qual Gersi

Sampla ID 100ng los	Samp	Type: Lt	10		Posts B	RA Matter	87698: VOL	and a		_	
Client (D) LCSW		10 R			RUNNIX A		events vot	AIRED			
Phip Date:	Analysis i						100 20				
		ADE: 4			BegNo:	334830	Linits: pig/L				
Ansiye	Result	PQL		SPK Rel Val		LouLine	Harkint	WRPD	RPDLinit	Qua	
luene	21 22	1.0	20.00	U	105	70	130	1			
Norobertaine		1.0	20.00	0	110	70	130				
Divisionaliana	23	1,0	20.00	0	158	70	1.90				
chloroethene (TCE)	21	1.0	20.00	U	110	70	130				
Sum 1.2-Dichiomethane-d4	8.6	1.0	10.00	0	104	70	130				
Sur. 4-Bromeshaprobenzene	10		10.00		85,7 102	70	130				
Sort Distance.comeshane	10		10.00			70	150				
Sum Takansi-dit	10		10.00		100	70	130				
ample ID rb		YPU: ME		-						_	
Internation Plank							B260B VOL	ATILES			
		ID: RA			munito: 4	2122					
Pento Dalla:	Analysis D	inte di	28/2017	5	laghin: 1	334831	Unit. HOL				
nalyle	Result	POL	SPK weine	SPK Ret Vul	SREC	I real inch	Hight imit	9,000	P8PDLimit	Quel	
nzene	ND	1.0		a second run	Sand Co.	Luncon	rafae and	2000	HPOCHIN	Quar	
uene	ND	1.0									
ylbenzene	ND	1,0									
yf leithbutyf ether (MTBE)	ND	1.0									
Trivittyberzeise	ND	4.0									
-Trimethyberzene	ND	1.0									
Nchloroethane (EDC)	ND	1.0									
Dibromoethane (EDB)	ND	1.0									
hthalene	ND	2.0									
rthylnaphthalene	ND	4.0									
thylnaphthalene	ND	4.0									
see	100	1.0									
nodichloromethane	ND	1.0									
notorm	ND	1.0									
nomethane	ND	3.0									
tanone	ND	10									
con disulfide	ND	10									
on Tetrachloride	ND	1.0									
robenzene	ND	1.0									
roethane	ND	2.0									
oroform	ND	1.0									
romethane	ND	3.0									
lorotoluene	ND	1.0									
			-								
lfiers:											
Value excepte Mastimue		init.		ti Analyte d	etected in	the process	Meiled Filari				
Sample Diluted Due to M Holding times for presse				6 Value site	WE (Martinia	talinn carge					
Holding times for presar	thing or analysis.	travilar				him gummitat	ann limms		Page 4 of	11	
Net Detected at the Repo					It Not In P				raffe + 01	11	
RPD counte accepted ro	covery limits										
% Recovery outside of in	nor due to debuts		A								

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WOR 1704071

16-May-17

Sample ID' vis	-samp)	(00) M	ar w		TesiG	ide B	A Redhod	exeen vol.	ATILES		
Client (D. PBW	Baid	ID. R	2451		Rue	No 4	2451				
Prep Date:	Analysis D	ate: 4	28/2017		Se	qNo: 1	334831	Units: µg/L			
Analyte	Result	POL	SPK value	SEV EM	Mat 1	AREC	Lowing	HighLinit	W.RPD	RPOLIM	Qual
4-Chlorotoluene	ND	1.0	Divis village	21/5 148		ALL NO.	E-STING-CO-C				-
dis-1 2-DCE	ND	1.0									
	ND	1.0									
dis-1,3-Dichtoropropene 1,2-Dibramo-3-civianipropanet	ND	2.0									
Contraction and the	ND	1.0									
Disromomethane	ND	1.0									
	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1.4 Octable Direction	HD	- 101									
Dichorodilluorometrano		1.0									
1,1-Dichloroethane	ND	1.0									
1.1-OldAvoithine	ND	3.0									
1,2.Ficeloccompetent	ND	1.0									
1,3-Dichloropropame	ND	1.8									
2.3-Cichloroprobine	ND	-24									
U1-Dichloropropehu	ND	1.6									
Hexachlorobutadiene	ND	1.0									
2-Hexanone	ND	10									
isopropy/benzene	ND	1.0									
& kopropylicitume	ND	18									
4 Methyl 2-penterono	ND		1								
Methylene Chloride	ND	3.0	1								
m.Butyloetutene	NU	0.0	1.								
n-Propylainizania	NO.	- 10	5								
Mo-Euty/benzene	ND	14).								
Styrene	NO	1.1	5								
tert-Butylbenzene	ND	1.1									
1,1,1,2-Tetrachlocemane	ND	1.									
1.1.2.2 Tematikinemum	ND	2.1									
Tetrachloroethene (PCE)	ND	1.									
tans (2.0CE	NET	43									
tane 13-Dichisopildene	ND										
12.5-Tichloroberzené	ND										
1.2.4-Trichloroberzene	ND	1									
1,1,1-Trichloroethane	ND	1									
	ND	1.	-								
1,1,2-Trichloroethane	ND	1									
Trichloroethene (TCE) Trichlorofluoromethane	ND	1.									
	ND	2									
1.2.3-Trichloropicpane	ND	2	u.								
Qualifiers:											
 Value exceeds Maxim 		Livit						asof Method B	and a state		
13 Sample Dilined Dia I							unistation san				100
H Malbing times for pro-		in excer	sled					station impils		Page 5	otil
ND Not Deterted at the Ki	tuni gutroep						In Roran				
R. RYE outside accepted							tion Lims				
S % Recovery outside o		intion or	matrix	W	Sumala	containe	v temperatur	e is out of limit	as specifies		

OC SUMMARY REPORT WERA-1704071 Hall Environmental Analysis Laboratory, Inc. 16 May-17

	ooder, Miller and aprock BGT	Associa	ties							
Sample ID rp	5emp)	ype Ma	BLK	Tes	Niode: El	PÁ Method	BZ69B: YOL	ATILES		
Citout ID: PBW	Bala	D RA	2451	1.0	ionitio 14	2451				
Wrapp Date:	Analysia	in al	10000		Salis 9	10 Million	Units: ug/L			
Analylo	Result	POL	SPK value	SPIC Ref Vel	BRED	LowLimit	HighLinit	KRPD	RPOLINIE	Qual
Vinyl chicride	ND	1.0						_	-	_
Kylemes, Tokal	ND	1.5								
Sur: 1,2-Dichloroethane-	64 8.6		10.00		85.8	70	130			
Sur: 4-Bromofluorobenze	ne 10		10.00		101	70	130			
Surr: Dibromofluoromethe	mo 10		10.00		100	70	130			
Surr: Toluene-d8	10		10.00		104	70	130			

	Value exceeds Maximum Contaminant Level.

- ated Due to Matrix

- D Sample branced sets of marks
 H Holding times for preparation or analysis exceeded
 Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
 Value above quantitation range
 Analyte detected below quantitation limits
 Analyte detected below quantitation limits
 Sample pH Not In Rauge
 Royoring Detections Limit
 Sample container temperature is out of limit as speci Page 6 of 11

Hall Ervit

weed Amateria Labo

OrderNo.: 1704C69

its own hillow

1981 Herabies NE Illingtony NM 4718 TRL 303-445-4073 FAX-307-343-4107

HALL 8 ANALYSIS I

May 16, 2017 Ashley Maxwell Souder, Miller and Associates 401 W. Broadway Farmington, NM 87401 TEL: (505) 325-5667 FAX (505) 327-1496

RE: White Lakes Station

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/28/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited These ware analyzed according to ETX proceedings or equivalent. To access our accretions tests plasses go to www, indicarvironmental acon or the state specific were sites. In order to properly interpret your results, if is imperative that you review this report in its entirety. See this sample checklist and/or the Charn of Custody for influence to regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analysical 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 elarifications.

ADHS Cert #AZ0682 - NMED-DWB Cert #NM9425 - NMED-Micro Cert #NM0190

Sincerely,

and

Andy Freeman Laboratory Manage 4901 Hawkins NE Albuquerque, NM 87109

Detrict J 1643 N. Prosta D., 2000b, 564 Na2A0 Dataset J. 100 W. Grand Avenue, Artissa, 564 R1218 Dataset JJ 1000 R. do Bonnie Rand, Anton, 564 R3190 Dataset JP 1220 S. St. Francis De, Sama Fe, NAI 8703	State of New Mexico Energy Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	GIGGII Broked 06071 Surface Wate Management Fieldby Upread and Green ator shall manufate in the munication available for Direction responses
	FOR APPROVAL TO ACCEPT	SOLID WASTE
1. Generator Name and Address: Enterprise Field Services, LLC, 014 Ref	ly Ave, Farmington NM #7401	
2. Originating Site: MAPL Caprock Pumping Station	The second	
 Lucation of Material (Street Address UL D Section 27 Trwnship 12S North 	, City, State or ULSTR): Range 33 Last; 33,256475, -103,609407	
Description: Non Exempt/Non-Mazardous	WasteWater Tanks and from the compressor skid o Water from the compressor skids. In Volumo (to be exerced by the operance at the end	10
5. GENERAT	OR CERTIFICATION STATEMENT OF WA	STESTATUS
Generator Signature certify that according to the Resource Con-	r authorized agent for Enterprise Products Operati arvation and Recovery Act (RCRA) and the US E ed waste is: (Check the appropriate classification)	avtreamental Protection Agency's July 1988
RCRA Exempt: Oil field wastes exceept waste. Operator Use Only.	enerated from oil and gas exploration and product Waste devertunce Programs [] Monthly []	ion operations and are not mixed with ann- Beehly Per Load
characteriatics exablished in RCRA re	sie which is non-hazardous that dows not exceed th gulations, 40 CFR 261,21-261,24, or listed hazard documentations is attached to demonstrate the abo	ous waste as defined in 40 CFR, part 261.
MSDS Information S RCRA Hazar	dons Waste Analysia D Process Knowledge	Other (Provide description in Box 4)
	ASTE TESTING CERTIFICATION STATEM	
I, Thomas Long June, Lag, representative Generator Stguature the required testing/sign the Generator Wat	the Enterprise Products Operating authorizes Aga to Testing Certification.	at Moss, LLC to complete
l, representat	ive for Agua Moss, LLC	do hereby certify that
representative samples of the oil field want have been found to conform to the specific	have been subjected to the pain filter test and test requirements applicable to landfarms pursuant to o demonstrate the above-described waste confirm	and for chloride conient and that the samples Section 15 of 19,15,36 NMAC. The results
5. Transporter: To Be Determined		
OCD Permitted Surface Waste Manage	ment Facility	
Name and Facility Permit #: *Agua Mese Address of Facility: SW/4 NW/4 Section	s, LLC - Permit #: NM-01-009 2, Township 29N, Range Crouch Mesa, NM	
Method of Treatment and/or Disposal: Evaporation Waste Acceptance Statune	ction: Treating Plant Landfarm	Landfill 📋 Other D (Must Be Mainitained As Permanent Record
PRINT NAME: Unicat Class	TITLE: CHER	DATE 9/24/12

Hall Environmental Analysis	Labora	tory, Inc.			Analytical Report 1 ah Order 1784C69 Date Reported: 5/16/20	17
CLIENT: Smither, Miller and Associates Project: White Lakes Station. Lab ID: 1704C69-001	Matrin:	AQUEOUS	Collection	Date: 40	hite Lakes BOT 56/2017 12:00:00 PM 28/2017 9:10:00 AM	
Analyses	Result	PQI. Quai	Units	DF	Date Analyzed	Buic
EPA METHOD 7470: MERCURY	_			-	Analysi	MED
Marcilly	NO	0.00020	angal.		and the second se	0160
EPA 60108: TOTAL RECOVERABLE ME					Analysi	
Avenic	ND	50				
Benum	ND	5/0 100	mg/L	1	5/9/2017 11:24:51 AM 5/9/2017 11:24:51 AM	3160
Cadmium	ND	1.0	mg/L	1	5/9/2017 11:24:51 AM	3160
Contenium	ND	5.0	ing L	1	5/9/2017 11:24:51 AM	3160
Lauri .	ND	5.0	mon	1	5/9/2017 11:24:51 AM	3160
Salardure	ND	1.0	mgA.	1	5/9/2017 11:24:51 AM	3160
Sillyer	ND	5.0	mart	1	5/9/2017 11:24:51 AM	3163
EPA METHOD 8270C: PAHS			-		Analyst	
Nuchtbalaner	WD	0.50	Jou.		5/10/2017 216:30 PM	3161
1.4.5600 years and a second second	ND	0.50	HOL	14	5/10/2017 2:16:30 PM	3152
2 Methylnaphtnaiene	ND	0.50	UQ/L	1	5/10/2017 2:16:30 PM	3152
Acenaphthylene	ND	0.50	ug/L	1	5/10/2017 2:16:30 PM	3152
Adensphthe	ND	0.50	POL		5/10/2017 2:16:10 PM	3162
Fluerann	ND	0.50	ugit		5/10/2017 2:18:30 PM	3152
Phenanthrene	ND	0.50	µg/L	1	5/10/2017 2:16:30 PM	3152
Arthracene	ND.	0.50	100	1	5/10/2017 2:10:30 PM	3162
Fluorantriene	ND	0.50	- Augul	1	SHOONT 2 16:30 PM	3163
Pyreau	ND	0.50	HOL	- 7	5/10/2017 2:16:30 PM	3158
Benzi,ajanilinacene	ND	0.50	H9L.	1	5/10/2017 2:16:30 PM	3152
Chrysene Benzolb/Bucramthene	ND MO	0.50	Jou	1	5/10/2017 2:16:30 PM	3152
Benzok Museumen	NO	0.50	VOL	1.1	IV10/2017 2:16:30 PM 5/10/2017 2:16:50 PM	3153
Genzelapymon	ND	0.50	HOL		5/10/2017 2:16:30 PM	3152
Diowia(n,h)withracene	ND.	0.50	ugit	1.4	5/10/2017 2:16:30 PM	3152
Bergolo, Autoentieve	NO	0.00	Uga	1.4	5/10/2017 2:16:30 PM	3152
Indeno(1,2,5-od)pycene	ND	0.50	UGA	.7	5/10/2017 2:16:30 PM	3152
Surr N-hiskadecane	70.2	15-176	WRec:	1	5/10/2017 2 18:30 PM	3152
Surr. Benzolekoyrene	05.0	15-794	%Roc		5/16/2017 2:10:30 PM	3152
EPA METHOD 8260B: VOLATILES					Analyst	rde
Barrzame	ND.	200	Ug/L	20/	4/28/2017 5-12:00 PM	Ph424
Totauna	ND	200	MON.		4/20/2017 5:12:00 PM	19424
Einylaennem	ND	200	MUN		4/28/2017 5:12:00 PM	R424
Molinyi teri-tudyi emer (MTBE)	ND	200	JOB/L		4/28/2017 5.12:00 PM	R424
1.2.4-TrimMithylbercere	NO	200	HIPL.		A/28/2017 0 12:00 PM	R424
1.3.5-Trimetryksenzene	ND:	200	Aug.		4/28/2017 5:12:00 PM	R424
1.2-Ded for cardiana (EDC)	ND	2000	Jog/L	10.0	4/20/2017 5.12:00 PM	16624

- Refer to the QC Summary report and sample login checklos for flagged QC data and preservation information Value es
 - on Maximum Com unit Level.

ale

Value exceeds Maximum Contantional Le D Sample Diluted Due to Matrix U Hohing times for preparing Jame KD Ner Demend at the Expansing Jame R RPD outside accepted recovery limits. S % Recovery outside of range due to dilute

Anatyse skiesenet in the annuared Method Blank.
 Value above quantitation range
 Anatyse skeened helder quantitation frame
 Sample contained helder quantitation plage.) m² (1)
 Reporting Detection Limit
 W Sample container temperature is out of limit as specified.

505.338-6186

Hall Env	iro	imental Analysis	Laborat	ory, Inc.		Analytical Report Lab Units 1704Cay Date Reported: 5016/2011		
CLIENT: S	ouder	Miller and Assocutes			Client	f Sample ID: While Lakes BOT		
Project: W	Vilito.	Lakes Station			Call	lectlos Date: 4/26/2017 12:00:00 PM		
Lab ID: 1	Zinics	9-001	Martine /	OUEOUS		teelved Date: 4/28/2017 9/30/00 AM		
Carp rays 1	10162	17-041	matrix: 7	QUEADA	RO	CENTRE DATE: 4120/2017 4:30500 RM		
Analyses	_		Result	PQL Qua	Uni	its DF Date Analyzed Batch		
EPA METH	OD es	BOB: YOLATILES				Analysi rde		
1,2-Dibrom		e (EDB)	NO	200	i ligit	A. 200 4/28/2017 5 12:00 PM R4245		
Nuchtinaterr			ND	400	UQ!	L 200 4/28/2017 5:12:00 PM R4245		
1-Methylinag			ND	800	pg/	/L 200 4/25/2017 5:12:00 PM 164245		
2-Methylnap	phthale	ne	ND	800	µg/	/L 200 4/28/2017 5:12:00 PM R4245		
Azarlamat			ND	2000	40	200 4/28/2017 5 12:00 PM R4245		
Bromoberu			ND	200	49	A. 200 4/26/2017 5:12:00 PM R4245		
Bromodichle		hane	ND	200	µg/			
Bronolorm			ND	200	494	/L. 200 4/28/2017 5 12:00 PM R4245		
Brotobriell	214		ND	800	ilal			
2-Butanonia			ND	2000	VO/	L 200 4/28/2017 5:12:00 PM R4245		
Garbon disc	moe		ND	2000	µg/			
Carbon Tetr	rachlor	ide	ND	200	ug/	/L 200 4/28/2017 5:12:00 PM R4245		
Chieroberm	ATTN:		ND	-200	404	L 200 4/28/2017 5:12:00 PM R4245		
Chloreothar	10		ND	400	19	A. 200 4/20/2017 5.12.00 PM R4245		
Chloroform			ND	200	ug/	L 200 4/28/2017 5:12:00 PM R4245		
Chioromath	ana.		ND	600	UD/	L 200 4/28/2017 5-12:00 PM R4245		
2-Colorool	41111		ND	200	UD	200 4/28/2017 512:00 PM R4245		
4-Chilotolok	ene		ND	200	up/			
DI-12-0CE			ND	2001	HO			
die-1.3-Old	bing	00010	ND	200	uq/			
1.2-Dibrome			ND	400	ua/			
Olbromochil			ND	200	104			
Dibromome			ND	200	PQ/			
T.2-Dichking	Sheriza		ND	200	HO			
1,0-Olehlare	source	-	ND	200	+9			
1.4-Dichloro			ND	200	ug/			
Dichlorodill	in the local division of the local divisiono	(head)	ND	200	- La			
1.1-Cichloro	within		ND -	300	10	entities and a second se		
1.1-Didviore			ND	200	UQ!			
1.Z-Carbina			ND	200	HO			
J.J. Cichiero			ND	200	100/			
2.2-Okhiwa			NO	400	Po/			
1,1-Dichiore			ND	200	19			
Hexachlorol			ND	200	Pg/			
2.Heranget			NO	2000	10			
lacoropylos			ND	200	10			
4-Isopropyll			ND	300	104			
#Mittol-24			NO	10.881	107			
Mellighere (ND	NOU	HON			
	-			n checklist for	_	ed QC data and preservation information.		
Qualifieres		Value exceeds Maximum Cos				Analyte detected in the associated Method Blask		
	D	Sample Diluted Due to Matri			E	Value above quantitation range		
	11	Holding times for preparation		lobol	1.0	Analyze detroust below quantitation limits Page 2 of 11		
	ND	Not Detocard at the Reporting			1 4	Sample off Not In Range		
	R.	RPD outside accepted recover	V Empire		RL Reporting Detection Limit			

Hall Environmental Analysis	Latoura	nory, inc.		Dam Reported: 5/16/20	17		
CLIENT: Souder, Miller and Associates Project: While Lakes Statum Lab ID: 1704C69-001	Matrix:	AQUEOUS	Client Sample ID: White Lakes BGT Collection Date: 4/26/2017 12:00:00 PM Received Date: 4/26/2017 9:30:00 AM				
Analyses	Result	PQL Qual	Units	DF Date Analyzed	Batch		
EPA METHOD \$2608: VOLATILES	-		-	Analyse	rde		
n-Burylpenzene	ND	600	Val.	200 4/38/2017 5 12:00 PM	R4246		
n-PropyZentzere	ND	200	ugit.	200 4/26/2017 5-12:00 PM	RAUAS		
esc-Butylounzenu	ND	200	PPL	200 4/28/2017 5:12:00 PM	142451		
Styrene	ND	200	Nor	200 4/28/2017 5:12:00 PM	R4245		
Tert-Bolyberizieve	ND	200	HOT.	200 4/28/2017 5 12:00 PM	R#246		
1.1.1.2-Tet/achitemathana	NO	200	val	200 4/2N/2017 5 12:00 PM	R4245		
1,1,2,2/Terrachioroethane	ND	400	Not	200 4/20/2017 5 12:00 PM	R4245		
Tet/anximumiterrar (FIDE)	ND	200	FUL	200 4/26/2617 5.12/00 PM	R42/6		
same t.R-DCE	NO	200	PHIL .	200 A/28/2017 5 12:00 PM	R4245		
trans-1,3-Dichteropropene	ND	200	JOL	200 4/28/2017 S 12:00 PM	B4245		
1.2.3 Thishlambenzene	ND	200	HOL	200 4/28/2017 5:12:00 PM	H42451		
1,2.4-ThoMaxbenavine	NO	200	V9%	200 A/28/2017 S 12:00 PM	R42451		
1,1,1-Trichiorpethane	ND	200	200	200 4/28/2017 5 12:00 PM	R42451		
1.1.2-Tricklarsethans	ALC:	200	HUL	200 4/20/2017 0.12.00 PM	R42451		
Trichloroithene (TCE)	ND	200	. tau	200 4/28/2017 5:12:00 PM	R42451		
Trichlorollucinnwinninge	ND	200	Jou	200 4/28/2017 5:12:00 PM	1942451		
1.2,3-Frichlandpippaves	ND	400	Mah	200 4/28/2017 5:12:08 PM	R42451		
Vinyi chionda	ND.	200	LOL	300 4/28/2017 5:12:00 PM	R42451		
Nylenes Tour	ND	300	LIQ1.	200 4/28/2017 5 12:00 PM	R42451		
-Sur: 2-Dishioraethens-d4	67.0	70-130	WRec	200 4/28/2017 5/12:00 PM	R42451		
Sum: 4-Bipmofluorulamzame	101	70-130	%Res:	200 4/28/2017 5 12:00 PM	R42451		
Sam Disamethystomations	548-03	26-150	WRen.	200 4/26/2017 0 12:00 PM	1142401		
Surr: Tolummethi	102	70-150	%Rec	200 4/28/2017 5:12:00 PM	F042451		

 Bits
 Provide structure propert and sample login chocklass file flagged QC data and procession information:

 Qualifier:
 *
 Vature inceeds Maximum Consuminant Level.
 B
 Analyte detected in the succession Method Blank.

 D
 Sample Directed Devis Maximum Consuminant Level.
 B
 Analyte detected in the succession Method Blank.

 D
 Sample Direct Devis Maximum Consuminant Level.
 B
 Analyte detected in the succession Method Blank.

 B
 Value structure or margine structure.
 B
 Value structure data granting structure.

 H
 Holding innov ite preparation or margine structure.
 F
 Analyte detected before quantization Timis Pages?) of (1)

 B
 RPO totable accepted recovery limits
 B
 Expering Levels in Limit
 Page 20 of (1)

 S
 % Benovery analide of Sample to Makings or margine at the Method structure temperature is on at limit as specified.
 W
 Sample constants temperature is on at all in a specified.

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Analytical Report

QC SUMMAR Hall Environmen	ital Anal	ysis l	Laborat	ory, Inc.			_		- WKM	17646.00 Tä-May-17
	r, Miller and Lakes Statio		AICA							
Sample ID 199ing las	Eomp	Steel La	10	Tu	Caster B	PA Mailvool	A2408: VOL	ATILES		
Clime (D: LCSW	Bato	NIC R	2451		RunNo: 4	2451				
Prep Date:	Analysis I	Date: 4	28/2017	1	SegNo: 1	334830	Units: µg/L			
Anidyte	Head	POL	and weber	SPIC Rul Val	8.007	LowUmit	HighLimit	NRPD.	RPOLINI	Qual
Benzera	21	1.0	20.00	0	105	20%0/111	130	MAPD.	REDOME	Gun.
Tolkieme	22	1.0	20.00	0	110	70	130			
Chlorobenzene	23	1.0	20.00	0	114	70	130			
1,1-Dichlorosthene	22	1.0	20.00	0	110	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	104	70	130			
Sur: 1,2-Dichlomethane-d4	8.6		10,00		05.7	70	120			
Saw & Brozon Lannawrizane	10		10.00		102	70	150			
Sirr. Dioromofbioromeituane	10		10.00		100	70	130			
SUTT: Toluene-08	10	-	10.00	C	105	70	130			
Sample (D riv		ype Mi		Tes	Code: E	PA Melliod	82008: VOL	ATILES		
Crimon ID. P.BWy	Baid	10: R	2451		CUNINO: 4					
Prep Date:	Analysis I	Nate: 4	28/2017		iogNo: 1	10040	Unit ppt			
Ansiyte	Result	POL	SPK value	SPK Ref Val	NRFC.	I casi imii	Highi Imit	SiRPO	RPDLimit	Quel
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								
3-Dicelonations (EDC)	ND	1.0								
2-Ditromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone Bromabaroana	ND	10								
Bromoberizono. Bromodichloromethane	ND ND	1,0								
sromodichloromethane Bromotomi	ND ND	1,0								
Amonimum	ND	1.0								
2.Rutanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachioride	ND	1.0								
Caroon retrachonoe Chlorobenzone	ND	1.0								
Shoroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
LChicoshid sena	ND	1.0								
1000 C										
Qualifiers: Value mounts Maximum	Contaminant	-		B Analyte						
O Sample Diluted Due to N		area.		in the second second		line associat	of Mailrid Bla			
If Holding tones for prepar		mand	4			dow quartits				
ND Not Detected at the Repo		sacesile			determini b		Page 4 nf	11		
R RPD outside accepted rea					g Detectio					
S % Recovery outside of ra										

		MMARY REPORT vironmental Analysis Laboratory, Inc.	1704C07 (A-May-17
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Sample ID rb		Sampl	ype: h	IBLK		THE	Cotin: E	PAMOUTOO	BZEND: YUL	ATILLES		
(Simil D) PBW		Bato	KID; P	142451		18	univo: 4	2451	-110.C 42-5			
Prep Dawn		Analysis D	kate:	4/28/2017			ingNo: 1	334831	Units ug/L			
Analyte		Result	POL	SPIC yakes	SPK	Ref Val	AREC	LowLimit	HighLimit	SIRPO	APDumit	Ciani -
H-Chiorotoluene		ND	1,	0	-							
dis-1,2-DCE		ND	1.	0								
da-1,3-Dichloropropene		ND.	1.1	1								
1,2-Olbromo-3-chioropropar	10	ND	2.1									
Dibromochloromethane		ND	1.0									
Disrommelhave		ND	- 11									
2-Dichlorosanzene		ND	4.6									
1,3-Dichlorobenzene		ND	1.0									
1,4-Dichlorobenzene		ND	1.0									
Dichlorodifluoromethane		ND	1.0	3								
1,1-Dichloroethane		ND	1.0	0								
I, Michloroethams,	17	- NO.3	1.14									
2-Dichioropromite	- F	ND	1.18	2.1								
3-Dichleopropane		ND	1.4									
2.9 Dichtorspropsine		ND	2.0									
1,1-Dichloropropene		ND	1.0									
+exachlorobutadiene		ND	1.0									
Hexanone		ND	10	0								
accropylbenzene		ND	1.0	1								
-isopropyliciuene		NU	1.0									
-Methyl-2-pentanone		ND	10									
Anthylene Chaolikae		ND	30									
Butylbenzone		ND	3.0									
-Propylbenzene		ND	1.0									
ec-Butylbenzene		ND	1.0									
Syrene		ND	1.0									
ert-Butylbenzene		ND	1.0									
1,1,2-Tetrachtoroethane		ND	1.0									
,1,2,2-Tetrachloroethane		ND	2.0									
etrachloroethene (PCE)		ND	1.0									
ana-1,2-DCE		ND	1.0									
ans-1,3-Dichloropropene		ND	1.0									
2.3 Tichinoberume		ND	1.0									
5.4 Trichtorobertzone		ND	1.0									
1,1-Trichloroethane		ND	1.0									
1,2-Trichloroethania		ND	1.0									
Idioidentition (TCE)		ND	1.0									
printemprouflowithr		ND	1.0									
2,3-Tistikuruproparte		ND	2,0									
Jualifiers:			-									
* Value exceeds Mar			evel.		в	Analyte o	letected in	the associate	ed Method Blan	k		
D Sample Diluted Du					E			itation range				
Holding times for y			mint	al.	1			elów quantita	tion firms		Page 5 of	11
HD Not Detected at the	Reporting	Limit			r	Sample p					S offer 3 01	24
R RPD outside accept					RL	Reporting						
5 % Recovery ontaid	e of range	die to dibe		ALC: N	w				coal of limit as i	and Real		

QC SUMMARY REPORT

 Qualifier:

 Value Stocked Muttimum Contansient Level.

 D. Sample Dilated Data in Manne

 10. Sample Dilated Tapa in Manne

 11. Belding times for programming a parkyris specofied

 120. Ben Doucked at the Reporting Limit.

 120. RPD Double coeffed recovery limits

 13. Stocked on the programming and the stocked at the Reporting Limit.

 13. Stocked at the Reporting Limit.

 14. RPD Double coeffed recovery limits

 15. Networky statide of mange date in allimits on marks.

Hall Environmental Analysis Laboratory, Inc.

	ouder, Miller and hite Lakes Station		lica							
Bample 10 nb	GempT	you, Ma	erk.	Tes	Cushe B	PA Matinui	82005. YOL	ATULES		
Client ID PBW	Baid	D: M	2461		keNa: s	12461				
Prep Date:	Analysis D	late: 4/	28/2017	5	SegNo: 1	1334831	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
vinyl chloride	ND	1.0	1000						1000	
Xylenes, Total	ND	1.5								
Sur: 1,3-Dichloresihare-	8,6 46		10.00		85.8	70	130			
Sur: 4-Brunofluoroterze	ne 10		10.00		101	70	130			
Surr: Dibromofluorometha	ane 10		10,00		100	70	130			
Surr: Toluene-d8	10		10.00		104	70	130			

W800 (784C309

16-M-0-17

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WOIL CTRACTOR 10-Map-17

Clients Souder, Miller and Associates

Sampla ID les-31526	SampT	ype: Lt	2	Tes	Code 5	PA Mollind	8276C: PAH			
Client ID; LCSW	Bald	10: 31	620		turible: A	2709				
Prep Date: 5/2/2017	Analysis D	min: 5	10/2017		SegNo: 1	343408	Units: Hol			
Analyse	Retuit	POL	SPR VILLE	SPIC Rel VAL	MREC	LowLinit	HighLimit	MRPD	RPDLimit	Duni
kopkingzne	28-	.0.53			60.4	37.4	120			
1 Louis Supplicities	A 18-	0.53			64.7	39.3	121			
Methyhophthuliene	12	0.50	26.60	0	59.2	37.8	122			
luci aphonylaria	12	0.50	20.00	0	81.1	57	124			
Acenaphthene	13	0.50	20.00	0	67.3	35.6	123			
Fluoreda :	14	6.94			68.2	35.2	122			
Thenardisees	13	0.39			67.2	38.8	122			
Anikescenii	13	0.50	20.00	0	65.2	37.5	125			
Fluoranmene	13	0.50	20.00	0	67.1	37.4	131			
Pyrene	13	0.50	20.00	0	66.4	27.5	140			
Benzi Wenthracene	13	0.50	20.00	0	67.0	27.5	140			
Convention	15	0.50	20.00	0	62.9	33.6	155			
			20.00							
Bench (b) Avorante en er Bench (b) Avorante en er	- 14	0.50	20.00	0	70.5	39 38	153			
	14						154			
Rector(a)pyrene		0.50	26.00	0	68.1	38.6				
Diserz(a,h)erthracene	1.4	0,50	20.00	0	71.1	39.7	155			
Benzolg TUlperyleve	14	0.50	20.00	0	70.0	30.6	154			
adexo(1,2,3-cd)owna	14	0.50	20.00	D	60.1	19.1	153			
Sirt: N-hexadecane	59		87.60		67.3	15	176			
Sar: Beraolegynese	19	_	20.00		78.0	15	198			
Sample (D. Keid-11820	Sampl	ypa: LC	80	Tes	Code: E	PA Method	8270C PAH	0		
Charle LC\$507	Baict	10.11	820		iunhis 4	2768				
Prep Date: 5/2/2017	Analysia D	ale: 5	10/2017	5	SegNo: 1	343410	Unite: Ug/L			
Anniym	Result	POL		SPH Ref Val	3AREC	LowLine	HighLimit	%RPD	RPDLIMA	Cuel
Naphitaleve	12	0,50	20,00	0	60,8	37.4	120	0,660	20	
1-Mattyrapheneric	13	0.50	20.00	- Ö	62.7	35.3	121	3.14	26.8	
2-Methylnaphthalene	12	0.50	20.00	0	59.2	37.8	122	0	23.8	
Accenaciilitylarie	15	0.50	20,00	0	55.1	37	124	0,34	28.6	
Arenaphtheme	18	0.50	10.00	0	67.2	35.6	120	0.140	27	
Filiprenie	5.6	0.50	26,00	0	69.2	35.2	122	1.46	25.7	
Prienanümene	14	0.50	20.00	0	70.6	38.8	122	4.93	20	
Anthracene	14	0.50	20.00	0	69.2	37.5	125	4,43	21.2	
Fluoranthone	2.4	0.50	26,60	0	70,4	37.4	131	4.80	21.8	
Pyrena	15	0.50	20.00	0	75,2	27.5	140	12.4	31.1	
Benz(a)anthracene	14	0.50	20.00	0	69.0	25.4	141	2.94	26.6	
Chrymens	-13	0.50	20.00	0	67.1	33.6	155	8.46	21.2	
Benan(i): Benand anna	18	0.50	20.00	ő	72.7	30	183	3.07	20	
Value exceeds Maxie	-	-		B Analyte			ted Method Bla	-P		
D Sample Diluted Due		Level.						OK.		
						titation range ic/rw-pumble			Page 7 s	è.
11 Holding times for pro		S EXCRO	4		off Marth		anon conta		rage r s	

ACCUMULT DE DEDODT

Holding limits für preparation of analysis exceeded
 Not Detected at the Reporting Limits
 R RPD outside accepted recovery limits
 S % Recovery outside of range due to dilution or matrix

 J
 Analyte detected heline quantization immunity

 P
 Sample pH Nor he Range

 RL
 Reporting Detection Limit

 W
 Sample container temperature is out of limit as specified

Hall Environmen	tal Anal	ysis 1	aborat	ory. Inc.						16-Mag-13
										-
	, Miller and		lics							
Project: White I	Lakes Station	1								
Somple ID land-51520	Samp?	YON LO	36	Ter	tiGode EP	A Mathod	BETOC: PAH			
Ulien (D. LCBS02	Balc	10. 31	520		RunNo 42	706				
Prep Date: 5/2/2017	Analysis D				SegNo: 12		Units: 40%	4		1.0
				1000						A
Altonyte Benzok/Ruoraniteae	Fiesul 10	PQL 0.50	SPK value 20.00	SPK Rat Val	bREG 77.7	LowLimit 38	NighLimit 154	13.8	RPDLmit 21	Gual
Benzolalownina	16	0.50	20.00	0	72.5	38.6	154	6.26	24.8	
Dibenz(a,h)anthracene	15	0.50	20,00	0	74.7	39.7	153	4.94	26	
Denzo(g.h.i)perylene	15	0.50	20.00	0	74.9	39.6	155	5.49	20	
indeno(1,2,3-od)pyrene	14	0.50	20.00	0	72.2	19.1	153	4.39	20	
Surr: N-hexadecane	66		87.60		75.3	15	176	0	0	
Sum Benzo(e)pyrene	16		20.00		80.3	15	198	0	0	
and the owned at the second								_		_
Cample ID m0-01020		yy.n. M3					RETOG PAH			
Client ID: PBW		10: 31			RunNo 42					
Prep Date: 5/2/2017	Analysis D	late: 5	10/2017		SeqNo: 13	43412	Units: µg/L			
Amalyni	Result	POL.	SPE value	SPK Ref Vel	MREC.	LowLimit	HighLimit	%RPD	RPDLint,	Qual
Naphchalena	ND	0.50								
1-Methylinachthalanú	ND	0.50								
L-Memyinaphthakare	ND	0,50								
Acemaphilhylenie	ND	0.50								
Acenaphthene	ND	0.50								
Fluorene	ND	0.50								
Phonanthrana	ND	0.50								
Anthracene	ND	0.50								
Fluoranthene Pyrene	ND	0.50								
Pyrena Berlu(A)anth/acirse	ND	0.50								
omulajanunokoje Dhrysane	ND.	0.50								
Unrysene Benzo(b)fluoranthene	ND	0.50								
senzo(k)fluoranthene Benzo(k)fluoranthene	ND	0.50								
Benzo(k)euoranmene Benzo(k)eyrene	ND	0.50								
Dibenz(a,h)anthracene	ND	0.50								
Seruto(p.h.liperylene	ND	0.50								
edustry1.2.3.orggmma	ND	0.50								
Surr. N-humdecarre	66		87.60		75.9	15.	176			
Sur: Benzo(e)pyrene	17		20.00		84.2	15	198			
Sum: Benzo(e)pyrene	17		20.00		84.2	15	198			
Qualifiers: * Value exceeds Maximum	Contiminant	cord.		B Analyt	e detected an	the accordance	ied Method Bla	nk		
D Sample Diluted Due to N		a ren			above quanti					
11 Holding times for presser		especial	al .		etermi be				Page 8 c	in the
		reading					a minute		Falls 9 (AL & A.
NO Not Detected at the Repo	THEFT TANKS			P Sample	pH Not In I	Ramon				

B. Analyse detects in the associated Method Binsk.
 Construction of the second

Page 6 of 11

QC SUMMAR Hall Environmen	tal Analysis Laboratory, Inc.	1784C65 16-May-1
	Miller and Associates Lakes Station	
Somplo ID MB-31683 Client ID: PBW Prep Date: 5/8/2017 Antily(si Nercury	Serrer Type: MDLH TratDobr EPA Method 7410. Messary Batch ID. 31M3 Run4tx. 42613 Analysis Date. Stiff 2017 Seaflo: 1340483 Units: mg/L Resett: POL SPK value SPK Ral Val. LINEEC NU USDER value SPK Ral Val.	Qual
Semple ID LCS-31663 Orent ID - LCSty Preo Calla S/8/2017 Analyte Metory	Sertic/Type LCS TraitCoder EPA Method 7476: Mercury Ballor10: 31663 RocrNic 42813 Anilyzed Date SIR/2617 Socie: 134048 Units mg/L Rasult POL SPK value SPK value SRPC 1010 Republic 4010 RocrNic Anilyzed Date SIR/2617 Socie: 134048 Units mg/L RepDir RocrNic POL SPK value SPK value SPK POL RPDUmit GO47 GO2020 D059500 II 94.8 90 120	Qual
Sample ID LCSD-31603 Client ID: LCSS02 Prov Danie, 3/8/2017 Analyte Mercury	SimpType: LCED TestiCoder EPA Method 7478: Mercury Batch ID: 31693 RunNor 42613 Aminysis: Castro 50910; 134466 Units: mgs. Resolt POC. SPK visions SPK Ref Val SREC London. 100: 139: 20 0.0466 0.00050 0.062 80 120 1.39: 20	Qual

Page 9 of 11

H Analysis detected in the suscented Mithids Itims
 E. Value shrine canonitation range.
 1 Analysis detected below genomeanian limits
 P Sangels entered below genomeanian limits
 Rangeb ref1 Net for Range
 RL Reporting Detection Itimit
 Sangle contains temperature is out of limit as specified

Qualifier:
 •
 Value reacest: Maximum Lottanium Lottanium

 D
 Sample Dilated Date to Materix
 1

 D
 Mathing their programmation or analysis preceded
 1

 DD
 Text Decords at the Tapersing Limit
 1

 R
 RPD outside accepted recovery limits
 1

 S
 % Recovery outside of mage due to dilution or matrix

QC SUMMARY REPORT QC SUMMARY REPORT WAR Won CIPACITY 17040368 Hall Environmental Analysis Laboratory, Inc. Hall Environmental Analysis Laboratory, Inc. 16-May-17 in-Map-17 C'Hante Souder, Miller and As Clienti Souder, Miller and Associates White Lakes Station Project: White Lakes Station Project: Sample ID MB 31602 TearCode: EPA 64100: Total Recoverable Meters Sample ID LCS-31002 TostCode. EPA 6010B: Total Recoverable Metals SompType MBLH SampType: LCS RunNo: 42612 Chieri ID PBW Batch ID: 31665 Runfic 42812 Client ID: LCSW Batch ID: 31602 Prep Date 5/8/2017 Prep Date: 5/8/2017 Analysis Date: 5/8/2017 SigNo: 1340442 Listin mail. Analysis Date: 5/8/2017 Switho: 1340457 Links: mg/L Result PQL SPK value SPK Rul Val 16REC LowLinit HighLinia 16RPD RPDLims Qual 0.50 0.020 0.5000 0 101 807 120 Analyte Banum Result POL SPK value SPK Ref Val %REC LowLinit HighLond %RPD RPDLinit Qual ND 0.020 Analyse Cadmium ND 0.0020 Sample D. LCSD-31602 SampiType LCSD TestCode: EPA 60108: Tatel Reco Chromium ND 0.0060 Lead ND 0.0050 Client ID. LCSS02 Batch ID: 31802 RunNo: 42612 Selenium ND 0.050 Analysis Date: 5/8/2017 SegNo: 1340458 Units: mg/L Prep Date: 5/8/2017 Shirt ND 0.0050 Result PQL BPK reliase SPK Rel Val MREC LowLimit HighLimit %RPD (RPDLimit Queet 0.50 6.480 0.500d 0 101 80 120 0.208 20 Analyte Sample ID LCS-31602 SampType: LCS Tes/Colin: EPA 60108: Total Recoverable Metals Chief ID. LCSW Balen ID: 34602 FlunNo: 42612 Analysis Dala 5/8/2017 vep/Dete: 5/8/2017 20014n 1340445 Units. mark Resil POL SPK_water SPK Ref Val %REC LowLimit 3 Vit/REC 0 100 80 4 0.5000 0 101 80 Anniyin Kesam Cadmium HighLimit %RPD RPDLimit Goal Ē -0.50 0.0020 120 0.60 0.0060 0.5000 Chronikure 100 80 120 Lent 0.50 0.0050 0.5000 80 120 0.51 0.050 102 0.5000 120 0.10 0.0050 Silver 102 80 120 Simple ID LCSD-31692 SampType LCSD TestCode: EPA 6010B: Total Recoverable Metals Client ID: LCS552 Batch ID 31602 RunNo: 42612 Analysis Date: 6/8/2017 Wep Date: 5/8/2017 SeqNo: 1340444 Annityte Banum Cadmium Rasue POL SPR value SPR Ref Vol %REC LowLind HighLinet %RPD RPDLinet Case 0.51 0.000 0.5600 0 103 80 120 2.46 50 0.51 0.020 0.6000 0.51 0.0020 0.5000 0.51 0.0000 0.5000 0.51 0.0050 0.5000 0.51 0.0050 0.5000 0.51 0.0050 0.5000 0.51 0.0050 0.5000 0.50 0.0500 0.5000 0.10 0.0050 0.1000 2.46 0.818 1.51 1.65 1.51 102 102 103 80 80 80 120 120 120 20 20 20 .ead elaniere 0.50 101 80 120 20 120 2.08 SampType: MBLK Bauch ID: 31662 Sample ID MB-31602 TestCode: EPA 6010B: Total Recoverable Me int ID. PBW Ponte -izoiz Prep Date: 5/6/2017 Analysis Date: 58/2017 Section 1340455 Units molt Result PGL SPK velue SPK Ref Vel %REC LowLimit HighLimit %RPD RPDLimit ND 0.020 Analyte Judifers: • Value created Maximum Consummant Level. D Sample Dihated Due to Marix H Holding times for preparation or analysis enceeded Net Detected of the Reporting Linear Net Detected of the Reporting Linear R RPD outside accepted recovery limits § % Recovery outside of range due to dilution or matrix Analyse detected in the manufated Nethed Blank Value alone quantitation range Analyse detected Seleve quantitation (mills Sample jelf Seleve quantitation (mills Sample jelf Seleve) Reporting Detection Limit W Sample container temperature is out of limit as spece Value extents Maximum Conum and Tarted B Analyze detected in the associated Method Blank Value extensis Maximum Lotumname access. Sample Distand Dan in Marix Holding terms for preparation or analysis extended. Not Detected at the Reporting Limit RPD outside accepted recovery limits Analyte detected in the associated Method B Value above quantitation range Analyte detected below quantitation limits Sample pH Not In Range Reporting Detection Limit Sample container temperature is out of limit Page 11 of 11 Page 10 of 11 e accepted recovery limits outside of range due to dil is out of limit as specified e is out of limit as specified 9/36/17 State of New Mexico District I 1625 N. Jernich Dr., Hobin, NM 88240 Form C-138 Energy Minerals and Natural Resources Oil Conservation Division District II 1301 W. Grand Avenue, Arterna, 564 88210 Surface Waster Managemer and Generative Abilities documentation available for mi Facility Operator initian and make this Sterna III 600 Ris Binann Rond, Alline, NAS 97410 1220 South St. Francis Dr. Santa Fe, NM 87505 HALL Hall Environmental Analysis Labor Diamer IV 1020 S. St. Femicie Dr., Santa Fa. NM 87505 4901 Herekins NE REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE 400mperspin, VM 83100 TEL: 505-543: 5075 FAX: 505-545-6107 ANALYSIS 1. Generator Name and Address: Entern ise Field Services, LLC, 014 Keilly Ave, Parmington NM 87401 we wooh Originating Site: MAPL Mesa Pumping Station 2. May 16, 2017 Location of Material (Street Address, City, State or ULSTR): 17. If Section 13 Township 45 North Range 22 East; 33.964397, -104.581023 Ashley Maxwell Souder, Miller and Associates 401 W. Broadway Farmington, NM 87401 Source and Description of Waste: Source and Description of Waste: Water/Oil from the Non Exempt WasteWater Tanks and from the compressor wild distant. Description: Non Exempt WasteWater from the compressor wilds. Estimated Volume: <u>80</u> _yd¹ (bb) Roown Volume (to be entered by the operator as the end of the hasti) 25 TEL: (505) 325-5667 St. NO FAX (505) 327-1496 GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS RE: Mesa Station BGT OrderNo.: 1704C70 Thomas Long²⁶⁻²⁴, representative or authorized agant for Enterprise Products Operating do hereby Generator Structure 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) , representative or authorized agent for Enterprise Products Operating do hereby Dear Ashley Maxwell Hall Environmental Analysis Laboratory received I sample(s) on 4/28/2017 for the RCRA Exernse. Oil field weaks generated from oil and post-splitation and production operations and are not mixed with nur-exempt waste Operator Use Only: Waste Acceptance Programmer Monthly || Woodly || Per Lund analyses presented in the following report. ELEA Non-Evenpri: Oil field wante which is uon-luzardous that does not seeved the minimum standards for waste hazardous characteristics established in RCRA regulations, 40 CFR 261 21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart. O, as mended. The following documentation is attached to demonstrate the above-described wasie is non-luzardous. (Cit the appropriate tierna) These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hullenvironmental.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. . (Cherk See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifies or a narrative will be 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 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 L. Thomas Long 2 - - - - - - - - , representative for Enterprise Products Operating authorizet <u>Agua Moss, LLC</u> in complete Generator Signature the required testing/sign the Generator Waste Testing Certification. received, interso 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. of the representative samples are attached 19.15.36 NMAC. 5. Transporter: To Be Determined ADHS Cert #AZ0682 - NMED-DWB Cert #NM9425 - NMED-Micro Cert #NM0190 OCD Permitted Sprface Waste Management Facility Sincerely, 1.0 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 and Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis	Labora	tory, Inc.			Analytical Report Lab Order 1704C70 Date Reported: 5/16/201	17
CLIENT: Souder, Miller and Associates Project: Mess Station BG1 Lak (D) 1704C70.001		AQUEOUS		Date: 4/2	sia Statico 6/2017 9:40:00 AM 3/2017 9:30:00 AM	
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 7470: MERCUNY				-	Autalysi.	MED
Mercury	ND	0.00000	mah	3	5/8/2017 3:16/07 PM	stens
EPA 60108: TOTAL RECOVERABLE ME	TALE				Anaport	ALC: N
Anienic	ND	5.0	Tem		5/9/2017 11:26:24 AM	31607
Benum	ND	100	mgn.		5/9/2017 11:26:24 AM	31802
Cadmium	ND	1.0		1	5/9/2017 11:26:24 AM	31602
Chromium	ND	1.0 5.0	mg/L moli.	1.1	5/9/2017 11:26:24 AM	31602
Louit	ND	6.0	mgit.		5/9/2017 11:26:24 AM 5/9/2017 11:26:24 AM	31602
Selenium	ND	1.0	mail	1	5/9/2017 11:26:24 AM	31602
Silver	ND	50	mgiL		5/9/2017 11:25:24 AM	31602
EPA METHOD 0270C PAHS			100		Analyst	
			C1 1	0.1		
Naphthalene	ND	0.50	µg/L	1	5/10/2017 2:40:43 PM	31520
1-Methylmstillinimm 2-Methylmstillinimm	ND	0.50	LOL	3	5/10/2017 2:40:43 PM	3+520
Acenaphthylene	ND	0.00	PUPL	1	5/10/2017 2.40.43 PM	31520
Acenaphthylene	ND ND	0.50	ug/L	1	5/10/2017 2:40:43 PM 5/10/2017 2:40:43 PM	31520
Faurure	NO	0.50	HOL		5/10/2017 2:40:43 PM	31520
Phenanilyman	ND	0.50	ugit		5/10/2017 2:40:43 PM	31520
Anthracene	ND	0.50	ug/L		5/10/2017 2:40:43 PM	31520
Panagrapan	ND	0.60	ugit.	1	5/10/2017 2:40:43 PM	31520
Pwere	ND	0.50	LIGH.		5/10/2017 2:40:43 PM	31520
Beniz(a)antimacama	ND	0.50	Ug/L		5/10/2017 2:40:43 PM	31520
Chrysene	ND	0.50	ug/L		5/10/2017 2:40:43 PM	31520
Benzoib/luceanthene	NO	0.50	491		5/10/2017 2:40:43 PM	01520
Banzo(k)fluoranihens	NO	0.50	ppL		5/10/2017 2:40:43 PM	31520
Benzo(a)pyrene	ND	0.50	HOL	1	5/10/2017 2:40:43 PM	31520
Orbuna(a,h)wrinnesawi	NO	0.50	100	4	5/10/2017 2:40:43 PM	31520
Bencolg hulperview	NO	0.50	Light .	1.1	1/10/2017 2:40 43 PM	31520
Indono(1,2,3-cd)pyrene	NO	0.50	Hat	T	5/10/2017 2:40:43 PM	31520
SUT N-himutonginn	4.60	15-1/0	TuRec	1.1	5/10/2017 J240(43 PM	31520
Surr Benackerssynerie	67 A	15-196	NARC .		5/10/2017 2:40 A3 PM	31670
EPA METHOD 82508: VOLATILES					Analyst	inte
Benzens	ND	200	100	004	4/28/2017 5:38:00 PM	R42151
Toloana	ND	200	val		4/28/2017 5:36.00 PM	R42451
Ethylbenzene	ND	200	ug/L		4/28/2017 5:38:00 PM	R42451
Malhyl (art-build ather (MYBE)	NO	200	UNI.		4/28/2017 5 36 00 PM	B42451
124 Trmsthebenzene	NO	300	ingl.		4/28/2017 5:36 00 PM	R42451
1.3.5-Trimetoyopenzone	ND	200	Log.		4/29/2017 5:36:00 PM	R42451
1.2-Ochiloroeswine (EDC)	ND	200	I/O/L		4/28/2017 5:36:00 PM	H42451
Refer to the QC Summary report an	d sample los					
				_		_
Qualifiers: * Value exceeds Maximum Cor		1.			he associated Method Blank	
D Sample Diluted Due to Matri U Holding times for metamation		(11) III	E Value ab	sove quantit	ation range	
		COVER S	J Amhler	ouncied bei	ow quarmining limits Page	1 of 11
ND Non Descend at the Reporting			P Lampley	di Norin R	action .	
R RPD outside accepted recover				g Detection		
S % Recovery outside of range	due to dilution	or mainx	w Sample o	container ter	operature is out of limit as s	pecified

Hall Environmental Analysi	Labora	tory, Inc.		Analytical Report Leb Order 1704C70 Date Reported: 5/16/10	47
CLIENT: Souder, Miller and Associates Project: Mean Station BGT Lab (D): 1704C70-001	Matrix	AQUEDUS	Collection	de ID; Mesa Station Date: 4/26/3017 9:40:60 AM Date: 4/38/2017 9:40:68 AM	
Analyzes	Result	PQL Qual	Units	DF Date Analyzed	Batch
EPA METHOD 82605: VOLATILES	100			Analysi	rde
n-Butylberiziene	ALC: N	600	Light	200 4/28/2017 5:36:00 PM	FI42451
n-Propylbenitene	ND.	200	HOL	200 1/25/2017 5:36:00 PM	B42451
sec-Burybonnon	ND	200	HOL	200 4/25/2017 5:36:00 PM	R42451
Slytenu	ND	200	LOT.	200 4/20/2017 5:36:00 PM	R42451
tert-Buty/bunzerer	ND	200	ugi	200 4/28/2017 5:36:00 PM	R42451
1,1,1,2 Tetrachincouthana	ND	2000	HER.	-200 4/28/2017 # 36 00 PM	R42451
1.1.2.2-Teli schovnet/igne	ND	400	UGA.	200 4/28/2017 5:36:00 PM	R42451
Totrachimaethene (PCE)	ND.	500	HOT	200 4/26/2017 5:35:00 PM	R42451
Inne-COCC-	AND	200	+9%	200 4/28/0017 5:36:00 PM	942451
Irans-1.3-Dichlorievopena	ND	200	Light.	200 4/25/2017 5:36:00 PM	R42451
1,2,3-Trichlorobenzene	ND	200	HOL	200 Ar26/2017 5 36 00 PM	R42451
1,2.4-Trichkpopenzene	NO	200	Jugit.	200 4/29/2017 5 36 00 PM	R41451
7.1.1-Trichicroethure	ND	-200	NOR	200 4/28/2017 5:36:00 PM	R42451
1,1,2-Trichioroethane	ND	200	µg/L	200 4/28/2017 5:36:00 PM	R42451
Trichloroethene (TCE)	ND	200	µg/L	200 4/28/2017 5:36:00 PM	R42451
Trichorsfluorsneihune	ND	200	DOL	200 4/28/2017 5:56:00 PM	FH2401
1,2,3-Trichié/epropanie	ND	400	HBY	200 4/26/2017 5:36:00 PM	R42451
Vinyl chloride	ND	200	µg/L	200 4/28/2017 5:36:00 PM	R42451
Xylanas Tolal	ND	300	NO/L	200 A/28/2017 5;36:00 PM	R42451
Sun 1.2-Dishlorselfinne-d4	87.0	76-130	6.Ebse	200 3/26/00/27 6/36/00 PM	BADAKS
Sur: 4-Bromofluoroberzene	101	70-130	NFRec	290 4/28/2017 5:36:00 PM	R42451
Sur Disunctionsmemory	1998.7	70-1:30	THRec	200: 4/28/2017 5:30:00 PM	R42451
fium: Tokame-db	104	70-130	1.Nec	200 #728/2017 5:5W/00 PM	R42451

- Willie Conceller Monimum Contempor regime revealed
 Value Conceller Monimum Contempor Level.
 Sample Discolar Date to Marini
 Holding times for preparation in sonitypic securities
 N No Downside at the Dopering Contemporation
 R IPD masside accepted recovery limits
 S % Recovery institute of range due to fullyies or masses
- Analyse descend in the suscended Method Blank
 E Value above quantitation range
 mention
 E Value above quantitation range
 mention
 Analyse descend labore quantitation limits
 Page 3 of 11
 P Suspect PL Net is Range
 R. Reporting Descriptor Limit
 P Range PL Net is Range
 Reporting Descriptor Limit
 P Suspect PL Net is Range
 Reporting Descriptor Limit

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Analytical Report Lab Order 1704C70 Date Reported: 5/16/2011 Hall Environmental Analysis Laboratory, Inc.

Project: Mess Station DGT Lah ID: 1704C70-001	Matrix:	AQUEOUS		Date: 4/26/2017 9:40:00 AM Date: 4/28/2017 9:30:00 AM	
Analyses	Result	PQL Qual	Units	DF Date Analyzed	Batch
EPA METHOD 62008: VOLATILES				Analysi	rda
1.2-Oibranneihene (EDB)	ND	200	USA.	200 4/29/2017 5 36:00 PM	84349
Naphihalone	ND	-400	Lak	200 4/20/2017 5:36:00 PM	R4240
1-Methyinaphthalene	ND	800	HQ/L	200 4/28/2017 5:36:00 PM	R4245
2-Methylnaphthalene	ND	800	ug/L	200 4/28/2017 5:36:00 PM	R424
Acètore.	ND	2000	Joy.	200 4/28/2017 5 96:00 PM	R424
Bromobenue	AID.	200	Jeu	200 4/28/2017 5:36:00 PM	R424
Bromodichloromethane	ND	200	ug/L	200 4/28/2017 5:36:00 PM	R424
Bromoleiun	ND	200	Jou	200 4/28/2017 5:36:00 PM	R124
Bromomatre	ND	600	Juni	300 4/28/2017 5 36 00 PM	R424
2-Butanone	ND	2000	. Nov	200 4/28/2017 5:3E:00 PM	R4245
Cleritury clautificar	NO	2000	U0/L	200 4/26/2017 5:30:00 PM	HAZAS
Carbon Telmonionio	ND	700	MB/L.	200 A/28/2017 5-38-00 PM	R4245
Chlorobenzene	ND	200	Joh.	300 4/28/2017 5-38:00 PM	R4245
Chlorosthans	ND	400	Pg/L	200 4/20/2017 5.30.00 PM	R424
Chloroform	ND	200	µg/L	200 4/28/2017 5:36:00 PM	R4245
Chloromethrum	NO	600	PD/L	200 4/28/2017 5.36:00 PM	R424
2-Chininisium	NIC	200	LOL	200 4/28/2017 5.36:00 PM	R424
4-Chierotolunini	ND	200	ED/L	200 4/28/2017 5:36:00 PM	R4245
TB-1,2-DGE	ND	200	sig/L	200 4/28/2017 5 36:00 PM	FIGH
cal-13-Dicridings openin	ND	200	POL	200 4/28/2017 5 36.00 PM	R4243
A.2-Bibxone-3-chloroptopane	ND	400	ugi	200 4/28/2017 5:36:00 PM	R424
Distamochionamethane	ND	200	UgiL	200 4/28/2017 5:36:00 PM	M4240
Dibromomethane	ND	200	LOU	200 4/28/2017 5:36:00 PM	R4245
1.2-Dichlorohenzene	ND	200	Ligh.	200 4/26/2017 5:35 00 PM	R4245
1,3-Dinistrational and a second	ND	200	rgt	200 4/28/2017 8:36:00 PM	114240
1,4-Dichlorobenzene	ND	200	LOL	200 4/28/2017 5:36:00 PM	R4248
Dichiotedifluctomethane	NO	200	LOL	200 #(26(2017 5:36 00 PM	R4248
1, 1-Dichlorsethame	MD.	200	upL	200 4/35/2017 5-38 00 PM	R4245
1.1-Dichloroethenu	ND	200	101.	200 4/25/2017 5:38:00 PM	R4245
1,2-Dichloropropane	ND	200	µg/L	200 4/28/2017 5:36:00 PM	R4245
1,3-Dichloropropane	ND	200	Jugit	200 4/28/2017 5:36:00 PM	R4245
2.3-Dichbravopane	NO.	400	091.	200 4/28/2017 5:38:00 PM	R4248
1,1-Dictridropropens	ND	200	µgit.	200 4/25/2017 5:36:00 PM	184243
Hexachlorobutadiene	ND	200	µg/L	200 4/28/2017 5:36:00 PM	R4245
2-Heikanone	ND	2000	199L	200 4/26/2017 5:36:00 PM	R4245
Hindrop Apenderse	ND.	200	such	200 4/26/2017 5:35:00 PM	R424!
A-leopropyllokienie	ND	200	MOL	200 4/28/2017 5:36:00 PM	R4248
+-Mellini-2-perionnine	NU	2000	JUG/L	200 4/28/2017 5/38:00 PM	H4242
Metrodenic Chloride	ND.	660	1/3/1.	200 4/26/2017 5/38/00 PM	R4245

Qualifiers:

Volve etiveds Meximum Castaniana Level.
 B Audys detected in the associated Method Black
 D Simple Dilated Dae to Marie
 E Value above quantitation range
 Hotolag turne for preparation or analysis exceeded
 J Audys detected a the Resourcing Limit
 P Simple of Nea Dealer quantitation range
 R RPD consider a credit acrease recovery simits
 S % Resource substance of the similar or many
 Komple cetatine's representer to out of third as appendent

	Car Millin	y 110 1	Canorat	ory, Inc.					-	Th-Mon-JS
	r, Miller and Station BGT		niss							
Sample ID 100mg lea	Semp'	Fyper La	29	Tes	Code: E	PA Method	SZOOB VOL	ATILES		
Climit ID: LCSW	Bald	NID: RA	12451	6	tuntiol 4	2451				
Prep Data:	Analysis				ingNoi 1		Units: µg/L			
Analyte	Read	POL	SPR value	SPK Raf Val	BRED	LowLantt	HighLimit	THPD	RPDLinit	Dual
Seazone	21	1.0		0	105	70	130			
Tokene	22	1,0	20.00	0	110	70	130			
Chiomheinteane	23	1.0	20.00	6	114	70	130			
1,1-Dichlorgethene	22	1.0	20.00	0	110	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	104	70	130			
Sur 1,3-Dichlorothaw-d4	8.0		10.00		85.7	70	130			
Sur: 4-Bromofisorobanzana	10		10.00		102	70	130			
Surr: Dibromofluoromethane	10		10.00		100	70	130			
Son: Jolvene-d8	10		10.00		105	70	130			
Sample ID m	Bamp	Type M	BLK	Tes	Code: E	PA Method	8200B: VOL	ATILES		
Ginen ICI PEW		ND R			univo: 4	2451				
Prep Date	Analysis I				iegNio 1		Une por			-
Anabite	Read	POL	SPK value	SPK Ref Val	MREC	LowLinit	HighLine	SURPO	RPOLimit	Oval
Benzene	ND	1.0					-			
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Walkyl len-kotyl amar (MTBE)	ND	1,0								
1,2,4-TransingBunzanie	ND	1.0								
1,3,5-Trimethybenzene	ND	1.0								
12-Dicklonetherw (EDC)	ND	1.0								
2-Official (ECE)	ND	1.0								
Naphthelierie	ND	2.0								
-Methyhaphthaiene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	4.0								
Romoboneono	ND	1.0								
Bromodichloromethane	ND									
		1.0								
Bromoform Bromomethane	ND	1.0								
-Butanone	ND	3.0								
	ND	10								
arbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chloroberizone	ND	1.0								
thioroethane	ND	2,0								
Chloroform	ND	1,0								
Chicromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Remonstrations 2-Butanone Carbon disuifide Carbon Tetrachá Chiorobenzone Chiorobenzone Chiorobenane Chioroform Chioromethane

2-Chlorololuene

 Qualifier:
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 Value executi Movimum Contaminated Local.

 D
 Sample Dahard Dae to Marris
 •

 T
 Mode grant for projectations or adaptive exceeded.

 ND
 Note Doese's at the Reporting Limit.

 R
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QC SUMMAR Hall Environmen			y, Inc.		Wray,	1704076 6-May-17		C SUM		10 Y Y Y Y		borato	ry, Inc.				WO.	17940 16-May
	r, Miller and / Station BGT	Associates					Clia	ject:		Miller and a stion BGT	Associates	5						
Sample IT ap	SampT	PP: MOLK	TeciCide: EPA Metha	d Barda VOLATILES		_	Sar	ngle ID vik		SampT	ype; MBL	k.	Tost	oden EPA Met	od 8258B; Yo	ATLES		
Client ID: PBW	Batch	ID: R42451	RunNe: 42451				Chi	WEN COL PRE		Batch	ID: R424	81	Ru	No: 42451				
rep Date:	Analysis D	ale 4/28/2017	SegNo: 1334831	Unite: µg/L			Pre	p Dwim		Analysis D	ant: 4/28	2017	50	NO: 1334631	Units up	2		
Artialyte	Result	POL SPR VIAN SI	PK Ref Val NREC LowLim	- HighLimit %RPD	RPDLimit	20(8)	Ani	dybli		Result	POL S	PK villan	SPK Ref Val	REC LOWL			RPOLimi	Quil
Chlorotoluene	ND	1.0					Vinyi	cnioride		ND	1.0				200			
1,2-DCE	ND	1.0						es, Total		ND	1.5							
,3-Dichloropropene	ND	1.0						m 1,2-Dichloroet		3.0		10.00			751 130			
Noromo-3-chloropropane	ND	2.0						ir: 4-Bromofiluoro		10		10.00			70 130			
mochloromethane	ND	1.0						rr: Dibromofluoro	omethane	10		10.00			70 130			
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ensene	ND	1.0																
foluene	ND	1.0																
2-pentanone	ND	10																
e Chloride	ND	3.0																
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liffers:								liflers:										
Value exceeds Maximu	on Contaminent I	nut. in	8 Analyse detected in the assoc	inted Method Blank			Qua		ds Maximum 4	Contaminant I	invel		B Analyte d	nated in the ere	ciated Method E	lineir		
Sample Diluted Due to			 Analyse detected in the associ Value above quantitation ran 						ated Due to Ma		evel.					Manik		
Midding times for prepa					Barry 6 . 24		D	Sample Dilu Holding time			Donalda P			ve quantitation n				
Not Detected at the Rep				Comments interim	Page 5 of 1						Creations .				Carloos melli		Раде б	ar 11
			and the fact on the standing					Not Detected						Not In Range				
RPD outside accepted p			L Reporting Detection Limit				R		e accepted reco				RL Reporting					
S % Recovery outside of	range due to dilat	ion or matrix	W Sample container temperature	e is out of limit as specified			s	% Recovery	outside of ran	ge due to dilut	tion or matri	IX	W Sample co	ntainer temperat	are is out of limit	as specified		

- B Analyte detected in the associated Method Blank
 Value above quantifation range
 A Aulyte leaded before quantifation Hitting
 Sample qH Noc In Range
 R. Reporting Detection Limit
 W Sample container temperature is out of limit as specified

Wile. 1784C70

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18-Mars17

H-May-17

QC SUMMARY REPORT Wett. 1704070 Hall Environmental Analysis Laboratory, Inc. 16-May-17 Client: Souder, Miller and Associates Project: Mesa Station BGT Sample ID Aus 21620 SompType: LOS Boloh ID: 31520 TestDode: CPA Method 82708: PAIls Climit ID: LCSW RunMo: 42768 Prep Date 5/2/2017
 Analysis Date:
 Verf402017
 Stackbo:
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 Analysis Date: 5/16/2017 SaqNo: 1343408 Units: jug/L Analyte Negroteese I-Melhyteptitelere Asnayhteptitelere Asnayhtene Fissere Einsertere Einsertere
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 Qualifier:
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 Value receeds Maximum Consuminant Level.

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 Sample Diluted Date to Maaris
 Illustration for preparation or ansigne excited of MDD Set Detected as the Repering Lines

 PD
 Sate Detected as corped recovery limits
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 RPD onlide accepted recovery limits
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 S
 % Recovery outside of range due to dilution or matrix
 B Analyte detected in the associated Method Hank
 E Value above quantitation range
 Analyte detected below quantitation range
 Somye's eff two to Ronge
 EL Reporting Detection Limit
 Somyle container temperature is out of limit as specified Page 7 of 11

QC SU	MMARY REPORT	254000
Hall En	vironmental Analysis Laboratory, Inc.	
Chicat-	South Miller and Associate	

	Samp	lyn= M	200	Tes	Code E	PA Method	8270C. PAH	2		
Client ID LCSSRZ	Bato	10 3	520	F	LUMNE: 4	2700				
Prep Date: 5/2/2017	Analysis I	inter 6	/10/2017	5	ingNo: 1	343410	Units: µg/L			
Analyte	Riscil	POL		SPK Ret Vol	KREC.	LowLinit	HanLine	1/RPD	RPOLINE	Child
Nervito(R)/fluorem/Nerve	10	0.50	20.00	0	77.7	AE.	154	13.8	21	
ienzolalarymme	14	0.50	20.00	a	72.5	38.0	150	0.20	24.8	
Noenz(a,h)anthracene	15	0.50	20.00	0	74.7	39.7	155	4.94	26	
Senito(g,h,i)perylene	15	0.50	20.00	0	74.9	39.6	154	5,49	20	
ndeno(1,2,3-od)pyrene	14	0.50	20.00	0	72.2	19.1	153	4.39	20	
Surr N-hoxadecsine	66		87.60		75.3	15	176	0	0	
Sur Benznijajovrena	16		20.00		80.3	15	198	9	0	_
Sample 10 mil-31520	Samp	Type: M	BLK	Two	Godin E	A Meshand	8270G PAH	2		
Client ID: PBW	Base	10.31	530	F	lunNo d	2700				
Prep Date: 5/2/2017	Analysis (Dale: 5	/10/2017	5	legNo: 1	343412	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
aphthalene	ND	0.50								
Mathylhaphthalene	ND	0.50								
Methylnaphthalene	ND	0.50								
cenaphthylene	ND	0.50								
xenaphthene	ND	0.50								
Jorene	ND	0,50								
enanthrene	ND	0.50								
thracene	ND	0.50								
Joranthene	ND	0.50								
vrene	ND	0.50								
enz(a)anthracene	ND	0.50								
hrysene	ND	0.50								
enzo(b)fluoranthene	ND	0,50								
enzo(k)fluoranthene	ND	0.50								
ionzo(a)pyrono	ND	0,50								
ibenz(a,h)anthracene	ND	0.50								
enzo(g.h.i)perylene	ND	0.50								
	ND	0.50								
riann(1.2.3-orf)pyrana			87.60		75.9	15	176			
stano(1.2.3-crijpyrana Surt N-hexadacane	66									

 II
 Rolding times, for perparation or analysis exceeded.

 VED
 Not Descend at the Reporting Limit.

 R
 RPD outside accepted recovery limits.

 S
 % Recovery outside of range due to dilution or matrix.



T Ansiyu: drasonal beltwu quantitatira liwasu
 Somple pl I Noi In Rauge
 RL Reporting Detection Limit
 W Sample container temperature is out of limit as specified

 Souder, Miller and Associates Mesa Station BGT 	Client: Souder, Miller and Associates Project: Mesa Station BGT
e D MB-31663 Samy/Type: MBLK TerriCode: EPA Methad 7476; Mareury	Sampin IXI MIL.31609 SampType: MBLK TestCode: EPA 801081: Total Recoverable Metals
ID: PBW Batch ID: 31403 Hunher: 42613 Nate: 5/8/2017 Analysis Date: 5/8/2017 Socho: 1240483 Units: reg/L	Client ID: PBW Batch ID: 31602 RunNo: 42612 Prop Date: 58/2017 Annifyrisi Date: 58/2017 See/No: 1540442 Units: mg/L
Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual NO 0.00020	Analytein Result POL SPK veiue SPK Ref Val NREC LowLinit HighLinit NSRPD RPDLinit Date Berun ND 0.020
e ID LCS-31603 SamufTyper LC8 TasiCode: EPA Nethod 7470; Marcuny	Cedemium ND 0.0020 Otronium ND 0.0060 Last ND 0.0060
5/8/2017 Analysis Date 5/8/2017 5/9/2No. 1340484 Units mg/L	ND 0.050 Siler ND 0.050
e Result PQL SPK value SPK Ret Val 15.REC LowLmit: HighLimit 15.RPD RPDUmit Qual 0.0047 0.00028 0.005/08 0 94.8 80 120	Samplin D LCS-11482 SimpTyper LCS TentCoder EPA 60108: Total Recoverable Metalle Calval D: LCSW Batch D: 31692 Ritrore 42912
a ID LC50-31603 SampType: LCSD TextDoca: EPA Metriced 7470; Mercury ID: LC5502 Batch ID: 21103 RunNo: 42613	Amily Result POL SPK value SPK Ref Val VARE Lew/Limit SIRPD RPDL/mil Dami
mi 38/2017 Anayas Data Sala2017 Septer 1340485 Units maga I Result PGL SPK value SPK Ruf Val KREG LowLimit HighLimit KRPD RPDLimit Qual	Nominger Healant PULL Service was service was service with the counter of the service was service wa
0.0048 0.00020 0.005000 0 96.2 80 120 1.39 20	Chromium 0.50 0.0060 0.5000 0 100 80 120 Lead 0.50 0.0050 0.5000 0 101 80 120
	Sher 0.10 0.0050 0.1000 6 102 87 120
	Semplir D LC50-31692 SampTypel LC50 TexiCaste EPA 09169: Total Recoverable Metalle Client ID: LC5592 Batch ID: 31692 RunNe: 42812
	Prep Date: 568/2017 Analysis Date: 568/2017 SeqNo: 1340444 Units: mg/L Analyte Reput: POL SPK retue SPK Ref Val KREC LowLine MighLine KRPD RPDLine Oxei
	Bellevie 0.51 0.0020 n.0020 0 403 80 120 2.48 20 Catenium 0.51 0.0020 0.5000 0 162 80 120 0.418 20 Chemium 0.51 0.0000 0.0000 0 102 80 120 1.51 20
	Lend 0.51 0.0050 0.5000 0 103 80 120 1.65 20 Selenium 0.50 0.050 0.5000 0 101 80 120 1.51 20
	Offwar 0.10 0.0050 0.1000 0 104 60 120 2.09 20 Sample ID' MB-31692 Sampl' (Xort MBLK) Text/2004: EPA 80108: Total Recoverable Metallin
	Zsiewi IP, PBW Batelvi IO, 81682 FilumNo, 42612 Prop Date: 5682017 Analysis Date: 5682017 SecNo: 1340455 Unita: mg/L
	Analyte Result PQL SPK value SPK Ref Val %REC LowLinkt HighLinkt %RPD RPDLinkt Qual Asseric ND 0.020
	Qualifiers:
due sexeds Maximum Comaminum Level. Bi Analyse detected in the associated Method Blank mple Diluted Due to Marix E Value above quantitation range diagi tums for programmino er analysis exceeded J Analysis detected below quantitation limits Page 9 of 11	Value exceeds Maximum Contaminant'Level. B Analyse interpret in the associated Method Blanck D Sample Dhand Due to Marick E Value above quantitation range H Helding times for preparation or analysis a romaini J Analyse detected before quantitation times Page 10 of 11
Detected at the Reporting Limit P Sample pH Not In Range 0 outside accepted recovery limits RL Reporting Detection Limit	MD Not Deserved in the Reporting Limit. P Kample pH Net In Range R RPD outside accepted recovery limits. RL Reporting Detection Limit
Recovery outside of range due to dilution or matrix W Sample container temperature is out of limit as specified	S % Recovery outside of range due to dilution or matrix W Sample container temperature is out of limit as specified
SUMMARY REPORT - Vicini 1704/c78 Environmental Analysis Laboratory, Inc. (D-Moy-T) Souder, Miller and Associates et: Mess Station BGT	Terral AETORY AETORY AETORY AETORY
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