



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

December 20, 2018

Jason Herman
NMED-GWQB
PO BOX 5469
Rm S4051
Santa Fe, NM 87502
TEL: (505) 827-2909
FAX

RE: S and R Septic

OrderNo.: 1812980

Dear Jason Herman:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/17/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

00423

Analytical Report

Lab Order 1812980

Date Reported: 12/20/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: NMED-GWQB

Client Sample ID: Charlies Septic 978 Cell #3

Project: S and R Septic

Collection Date: 12/17/2018 1:00:00 PM

Lab ID: 1812980-001

Matrix: SOIL

Received Date: 12/17/2018 3:50:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
OIL AND GREASE, T/R							Analyst: CLP
Oil & Grease, Total Recoverable	24	20		mg/Kg	1	12/19/2018	42192
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: Irm
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/19/2018 3:58:26 PM	42188
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/19/2018 3:58:26 PM	42188
Surr: DNOP	86.8	50.6-138		%Rec	1	12/19/2018 3:58:26 PM	42188
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/19/2018 11:17:21 AM	42178
Surr: BFB	94.4	73.8-119		%Rec	1	12/19/2018 11:17:21 AM	42178

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1812980

20-Dec-18

Client: NMED-GWQB

Project: S and R Septic

Sample ID	MB-42192	SampType:	MBLK	TestCode:	OIL and GREASE, T/R					
Client ID:	PBS	Batch ID:	42192	RunNo:	56458					
Prep Date:	12/18/2018	Analysis Date:	12/19/2018	SeqNo:	1888046	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Oil & Grease, Total Recoverable	ND	20								

Sample ID	LCS-42192	SampType:	LCS	TestCode:	OIL and GREASE, T/R					
Client ID:	LCSS	Batch ID:	42192	RunNo:	56458					
Prep Date:	12/18/2018	Analysis Date:	12/19/2018	SeqNo:	1888047	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Oil & Grease, Total Recoverable	100	20	100.0	0	102	84.7	129			

Sample ID	LCSD-42192	SampType:	LCSD	TestCode:	OIL and GREASE, T/R					
Client ID:	LCSS02	Batch ID:	42192	RunNo:	56458					
Prep Date:	12/18/2018	Analysis Date:	12/19/2018	SeqNo:	1888048	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Oil & Grease, Total Recoverable	100	20	100.0	0	101	84.7	129	1.13	20	

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1812980
 20-Dec-18

Client: NMED-GWQB
Project: S and R Septic

Sample ID	LCS-42188	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	42188	RunNo:	56437					
Prep Date:	12/18/2018	Analysis Date:	12/19/2018	SeqNo:	1887450	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	81.7	70	130			
Surr: DNOP	4.0		5.000		80.3	50.6	138			

Sample ID	MB-42188	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	42188	RunNo:	56437					
Prep Date:	12/18/2018	Analysis Date:	12/19/2018	SeqNo:	1887451	Units:	mg/Kg			
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								
Surr: DNOP	8.6		10.00		85.5	50.6	138			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1812980
20-Dec-18

Client: NMED-GWQB
Project: S and R Septic

Sample ID	MB-42178	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	42178	RunNo:	56473					
Prep Date:	12/18/2018	Analysis Date:	12/19/2018	SeqNo:	1888352	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		94.7	73.8	119			

Sample ID	LCS-42178	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	42178	RunNo:	56473					
Prep Date:	12/18/2018	Analysis Date:	12/19/2018	SeqNo:	1888353	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.8	80.1	123			
Surr: BFB	1000		1000		101	73.8	119			

Sample ID	1812980-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	Charlies Septic 978	Batch ID:	42178	RunNo:	56473					
Prep Date:	12/18/2018	Analysis Date:	12/19/2018	SeqNo:	1888355	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.8	23.79	0	111	77.8	128			
Surr: BFB	1100		951.5		112	73.8	119			

Sample ID	1812980-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	Charlies Septic 978	Batch ID:	42178	RunNo:	56473					
Prep Date:	12/18/2018	Analysis Date:	12/19/2018	SeqNo:	1888356	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.8	24.08	0	108	77.8	128	1.56	20	
Surr: BFB	1100		963.4		115	73.8	119	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified



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Sample Log-In Check List

Client Name: NMED Santa Fe

Work Order Number: 1812980

RcptNo: 1

Received By: Victoria Zellar

12/17/2018 3:50:00 PM

Victoria Zellar

Completed By: Isaiah Ortiz

12/18/2018 7:37:34 AM

I-Ortiz

Reviewed By: *JAB 12/18/18*
LB: DAD 12/18/18

Chain of Custody

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

Log In

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

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: *DAD 12/18/18*

Special Handling (if applicable)

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

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	19.2	Good	Not Present			

Chain-of-Custody Record



www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Turn-Around Time:
 Standard Rush

Project Name:
S+R Septic

Project #:
DP-465

Project Manager:
Jason Herman

Sampler: **Same**

Obj Ice: Yes No

of Coolers: **N/A** CF = **1.04**

Cooler Temp (including CF): **19.2°C**

Container Type and #

Preservative Type

HEAL No. **1817980**

TPH: 8015D (GRO / DRO / MRO)

8081 Pesticides / 8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

BTEX / MTBE / TMB's (8021)

Oil and Grease (Total/Free)

Analysis Request

Remarks:

Received by: **Jason Herman** Date: **12/17/16** Time: **15:50**

Received by: **Jason Herman** Date: **12/17/16** Time: **15:59**

Relinquished by: **Jason Herman** Date: **12/17/16** Time: **15:50**

Relinquished by: **Jason Herman** Date: **12/17/16** Time: **15:59**

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