



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

August 29, 2019

Lucas Middleton

Atkins Engineering Associates

2904 West Second Street

Roswell, NM 88201

TEL:

FAX

RE: Gissler B 3 3 TB

OrderNo.: 1908B83

Dear Lucas Middleton:

Hall Environmental Analysis Laboratory received 7 sample(s) on 8/16/2019 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](http://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 in a cursive style.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: 1908B83

Date Reported: 8/29/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Atkins Engineering Associates

Lab Order: 1908B83

Project: Gissler B 3 3 TB

Lab ID: 1908B83-001

Collection Date: 8/14/2019 9:30:00 AM

Client Sample ID: BH1-5

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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EPA METHOD 300.0: ANIONS

Analyst: CAS

Chloride	15000	600		mg/Kg	200	8/26/2019 11:12:14 PM	46985
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Lab ID: 1908B83-002

Collection Date: 8/14/2019 9:42:00 AM

Client Sample ID: BH1-10

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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EPA METHOD 300.0: ANIONS

Analyst: CAS

Chloride	6600	300		mg/Kg	100	8/26/2019 11:24:38 PM	46985
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Lab ID: 1908B83-003

Collection Date: 8/14/2019 10:05:00 AM

Client Sample ID: BH1-15

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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EPA METHOD 300.0: ANIONS

Analyst: CAS

Chloride	9500	300		mg/Kg	100	8/26/2019 11:37:02 PM	46985
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Lab ID: 1908B83-004

Collection Date: 8/14/2019 10:21:00 AM

Client Sample ID: BH1-20

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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EPA METHOD 300.0: ANIONS

Analyst: CAS

Chloride	3600	150		mg/Kg	50	8/27/2019 12:14:16 AM	46985
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Lab ID: 1908B83-005

Collection Date: 8/14/2019 10:54:00 AM

Client Sample ID: BH1-30

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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EPA METHOD 300.0: ANIONS

Analyst: CAS

Chloride	2300	150		mg/Kg	50	8/27/2019 12:26:40 AM	46985
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Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

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

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

Analytical Report

Lab Order: 1908B83

Date Reported: 8/29/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Atkins Engineering Associates

Lab Order: 1908B83

Project: Gissler B 3 3 TB

Lab ID: 1908B83-006

Collection Date: 8/14/2019 11:30:00 AM

Client Sample ID: BH1-35

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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EPA METHOD 300.0: ANIONS

Analyst: CAS

Chloride	540	60		mg/Kg	20	8/22/2019 3:51:45 PM	46985
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Lab ID: 1908B83-007

Collection Date: 8/14/2019 11:50:00 AM

Client Sample ID: BH1-40

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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EPA METHOD 300.0: ANIONS

Analyst: CAS

Chloride	ND	60		mg/Kg	20	8/22/2019 4:04:10 PM	46985
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Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1908B83

29-Aug-19

**Client:** Atkins Engineering Associates

**Project:** Gissler B 3 3 TB

Sample ID: <b>MB-46985</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>46985</b>	RunNo: <b>62350</b>								
Prep Date: <b>8/22/2019</b>	Analysis Date: <b>8/22/2019</b>	SeqNo: <b>2119770</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-46985</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>46985</b>	RunNo: <b>62350</b>								
Prep Date: <b>8/22/2019</b>	Analysis Date: <b>8/22/2019</b>	SeqNo: <b>2119771</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.0	90	110			

**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 Limit                                |
| S % Recovery outside of range due to dilution or matrix |   |

**Sample Log-In Check List**

Client Name: **ATK**

Work Order Number: **1908B83**

RcptNo: **1**

Received By: *DM* **8/16/2019 9:00:00 AM**

Completed By: **Anne Thorne** **8/21/2019 8:03:26 AM**

Reviewed By: *AB* *8/21/19*

*Anne Thorne*

**Chain of Custody**

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

**Log In**

3. Was an attempt made to cool the samples? Yes  No  NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
5. Sample(s) in proper container(s)? Yes  No
6. Sufficient sample volume for indicated test(s)? Yes  No
7. Are samples (except VOA and ONG) properly preserved? Yes  No
8. Was preservative added to bottles? Yes  No  NA
9. 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 8/21/19*

**Special Handling (if applicable)**

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

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

16. Additional remarks:

**17. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.4	Good	Not Present			
2	2.4	Good	Not Present			

# Chain-of-Custody Record

Client: Attn Engineering

Mailing Address: 2100 W. 2nd St

Phone #: Roswell, NV  
575 499 9244

email or Fax#: sampling@attneng.com

QA/QC Package:  
 Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  
 NELAC  Other  
 EDD (Type) \_\_\_\_\_

Turn-Around Time:  
 Standard  Rush

Project Name:  
Gissler B 3-3 TB

Project #:  
bagissl. dr 1.19

Project Manager:  
Lucas Middleton

Sampler:  
LCA

On Ice:  Yes  No

# of Coolers: 2

Cooler Temp (including CP): 3.8-04-342, 27-04-2038

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
8-14-19	930	Soil	BH1-5	A02	-	1908B83
	942		BH1-10			202
	1005		BH1-15			203
	1021		BH1-20			204
	1054		BH1-30			205
	1130		BH1-35			206
	1150		BH1-40			207

Analysis Request	
BTEX / MTBE / TMBs (8021)	
TPH:8015D(GRO / DRO / MRO)	
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
CF, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	

Date: 8/15/19 Time: 1100 Relinquished by: [Signature]

Date: 8/15/19 Time: 1900 Relinquished by: [Signature]

Received by: [Signature] Date: 8/15/19 Time: 1400

Received by: [Signature] Date: 8/16/19 Time: 9:00

Remarks:  
Bill to Burnett Oil



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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.