

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company EOG Y Resources, Inc. (formerly YPC)	OGRID Number 25575	Contact Robert Asher
Address 104 S. 4 <sup>TH</sup> Street		Telephone No. 575-748-1471
Facility Name Vince BGH #1	API Number 30-025-37104	Facility Type Battery

Surface Owner Fee	Mineral Owner State	Lease No.
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**LOCATION OF RELEASE**

Unit Letter J	Section 30	Township 9S	Range 35E	Feet from the 1980	North/South Line South	Feet from the 1750	East/West Line East	County Lea
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Latitude 33.50332 Longitude 103.39680

**NATURE OF RELEASE**

Type of Release Produced Water	Volume of Release 25 B/PW	Volume Recovered 25 B/PW
Source of Release Pipeline polyline	Date and Hour of Occurrence 4/25/2012 - PM	Date and Hour of Discovery 4/25/2012 - PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? E.L. Gonzales & Geoffrey Leking/NMOCD I	
By Whom? Bob Asher/Yates Petroleum Corporation	Date and Hour 4/26/2012 - AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		

Describe Cause of Problem and Remedial Action Taken.\*  
Possible livestock in existing excavation. Possibly rubbing on 6" polyline causing release. Spill reason in assumed due to cattle tracks and fencing around excavation tore down, but undetermined at this time. Vacuum truck called. Pipeline repaired.

Describe Area Affected and Cleanup Action Taken.\*  
An approximate area of 20' X 10'. Vacuum truck called, picked up all produced water. Impacted soils excavated and being taken to an NMOCD approved facility. Initial vertical/horizontal delineation samples within the impacted area will be analyzed for TPH/BTEX (Chlorides for reference). If initial analytical results for TPH/BTEX are under RRAL's a Final Report, C-141 will be submitted to the NMOCD requesting closure. **Depth to Ground Water: >100' (approx. 137', Sec 27, T9S-R35E, NMOSE), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0. Based on depth to ground water, impacted soils excavated/removed, all water recovered and enclosed (4/17/2017) delineation sample results, EOG Resources, Inc. requests closure with no further remediation actions taken.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Robert Asher	Approved by District Supervisor:		
Title: Environmental Supervisor	Approval Date:	Expiration Date:	
E-mail Address: Robert_Asher@eogresources.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: Friday, May 05, 2017 Phone: 575-748-4217	1RP-		

\* Attach Additional Sheets If Necessary

Analytical Report-1704919 (Hall)	Sample Area West of Excavation Area	Sample Date 4/17/2017	Sample Type Comp/Auger	Depth 1'	BTEX	GRO	DRO	TOTAL	Chlorides ND
Analytical Report-1704920 (Hall)	Sample Area South of Excavation Area	Sample Date 4/17/2017	Sample Type Comp/Auger	Depth 1'	BTEX	GRO	DRO	TOTAL	Chlorides ND
Analytical Report-1704922 (Hall)	Sample Area North of Excavation Area	Sample Date 4/17/2017	Sample Type Comp/Auger	Depth 1'	BTEX	GRO	DRO	TOTAL	Chlorides ND
Analytical Report-1704923 (Hall)	Sample Area East of Excavation Area	Sample Date 4/17/2017	Sample Type Comp/Auger	Depth 1'	BTEX	GRO	DRO	TOTAL	Chlorides ND
Analytical Report-1704924 (Hall)	Sample Area	Sample Date 4/17/2017	Sample Type Comp/Auger	Depth 4'	BTEX	GRO	DRO	TOTAL	Chlorides 8.5
Analytical Report-1704919 (Hall)	Sample Area	Sample Date 4/17/2017	Sample Type Comp/Auger	Depth 5'	BTEX	GRO	DRO	TOTAL	Chlorides ND

**Site Ranking is Zero (0).** Depth to Ground Water >100' (approx: 137', Section 27, T9S-R35E, per NMOSE).

All results are ppm. Chlorides for documentation.

Released: 25 B/PW; Recovered: 25 B/PW. Release Date: 4/25/2012

Vince BGH #1



Legend  
P Sample Points

50 ft

Google Earth



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)

April 25, 2017

Chase Settle

EOG Resources

105 South Fourth Street

Artesia, NM 88210

TEL: (575) 748-4111

FAX

RE: Vince BGH 1

OrderNo.: 1704919

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/20/2017 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](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 #NM0190

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

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG Resources

**Client Sample ID:** W-1'

**Project:** Vince BGH 1

**Collection Date:** 4/17/2017 10:52:00 AM

**Lab ID:** 1704919-001

**Matrix:** SOIL

**Received Date:** 4/20/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	4/24/2017 2:11:07 PM	31386

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

<b>Qualifiers:</b>	*	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
	R	RPD outside accepted recovery limits	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#: 1704919  
25-Apr-17

Client: EOG Resources  
Project: Vince BGH 1

Sample ID	MB-31386	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	31386	RunNo:	42317					
Prep Date:	4/24/2017	Analysis Date:	4/24/2017	SeqNo:	1330756	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-31386	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	31386	RunNo:	42317					
Prep Date:	4/24/2017	Analysis Date:	4/24/2017	SeqNo:	1330757	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.6	90	110			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- 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
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified



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

# Sample Log-In Check List

Client Name: EOG/Yates

Work Order Number: 1704919

RcptNo: 1

Received By: Lindsay Mangin

4/20/2017 9:50:00 AM

*[Signature]*

Completed By: Ashley Gallegos

4/20/2017 11:35:05 AM

*[Signature]*

Reviewed By:

*[Signature]*

4/20/17

**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 samples?

Yes  No  NA

5. Were all samples received at a temperature 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 test(s)?

Yes  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  No  No VOA Vials

11. Were any sample containers received broken?

Yes  No

12. Does paperwork match bottle labels?  
 (Note discrepancies on chain of custody)

Yes  No

13. Are matrices correctly identified on Chain of Custody?

Yes  No

14. Is it clear what analyses were requested?

Yes  No

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

Yes  No

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

**Special Handling (if applicable)**

16. 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:	_____		

17. Additional remarks:

**18. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.9	Good	Yes			





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)

April 25, 2017

Chase Settle

EOG Resources

105 South Fourth Street

Artesia, NM 88210

TEL: (575) 748-4111

FAX

RE: Vince BGH 1

OrderNo.: 1704920

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/20/2017 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](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 #NM0190

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

**Hall Environmental Analysis Laboratory, Inc.**

<b>CLIENT:</b> EOG Resources	<b>Client Sample ID:</b> S-1'
<b>Project:</b> Vince BGH 1	<b>Collection Date:</b> 4/17/2017 10:58:00 AM
<b>Lab ID:</b> 1704920-001	<b>Matrix:</b> SOIL
	<b>Received Date:</b> 4/20/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	4/24/2017 2:48:20 PM	31386

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

<b>Qualifiers:</b>	<ul style="list-style-type: none"> <li>* Value exceeds Maximum Contaminant Level.</li> <li>D Sample Diluted Due to Matrix</li> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> <li>R RPD outside accepted recovery limits</li> <li>S % Recovery outside of range due to dilution or matrix</li> </ul>	<ul style="list-style-type: none"> <li>B Analyte detected in the associated Method Blank</li> <li>E Value above quantitation range</li> <li>J Analyte detected below quantitation limits</li> <li>P Sample pH Not In Range</li> <li>RL Reporting Detection Limit</li> <li>W Sample container temperature is out of limit as specified</li> </ul>	Page 1 of 2
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# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1704920

25-Apr-17

Client: EOG Resources

Project: Vince BGH 1

Sample ID	MB-31386	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	31386	RunNo:	42317					
Prep Date:	4/24/2017	Analysis Date:	4/24/2017	SeqNo:	1330756	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-31386	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	31386	RunNo:	42317					
Prep Date:	4/24/2017	Analysis Date:	4/24/2017	SeqNo:	1330757	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.6	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                                    |
| R RPD outside accepted recovery limits                  | RL Reporting Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |



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

# Sample Log-In Check List

Client Name: EOG/Yates

Work Order Number: 1704920

RcptNo: 1

Received By: Lindsay Mangin

4/20/2017 9:50:00 AM

*[Signature]*

Completed By: Ashley Gallegos

4/20/2017 11:37:11 AM

*[Signature]*

Reviewed By:

*[Signature]*

04/20/17

**Chain of Custody**

1. Custody seals intact on sample bottles?

Yes  *[Signature]* 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 samples?

Yes  No  NA

5. Were all samples received at a temperature 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 test(s)?

Yes  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  No  No VOA Vials

11. Were any sample containers received broken?

Yes  No

12. Does paperwork match bottle labels?  
 (Note discrepancies on chain of custody)

Yes  No

13. Are matrices correctly identified on Chain of Custody?

Yes  No

14. Is it clear what analyses were requested?

Yes  No

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

Yes  No

# of preserved bottles checked for pH:	_____
Adjusted?	_____
Checked by:	_____

**Special Handling (if applicable)**

16. 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:	_____		

17. Additional remarks:

**18. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.9	Good	Yes			

# Chain-of-Custody Record

Client: EOG Y Resources, Inc.

Mailing Address:

105 South 4th Street Artesia, NM 88210

Phone #: 575-703-6537

email or Fax#: [Chase.Settle@eogresources.com](mailto:Chase.Settle@eogresources.com)

QA/QC Package:

Standard  Level 4 (Full Validation)

Accreditation:

NELAP  Other

EDD (Type)

Project Manager:

Chase Settle

PO # 205. 0750

Sampler: Chase Settle

On Site:  Yes  No

Sample Temperature: 39

Date: 4/17/2017

Time: 10:58A

Matrix: Soil

Sample Request ID: S-1'

Container Type and #: 1 - 4OZ.

Preservative Type: None

HEAL No: 1704920

Time: -001

Turn-Around Time:

Standard  Rush

Project Name:

Vince BGH #1

Project #:

Analysis Request

BTEX + MTBE + TMB's (8021)

BTEX + MTBE + TPH (Gas only)

TPH Method 8015B (Gas/Diesel)

TPH (Method 418.1)

EDB (Method 504.1)

8310 (PNA or PAH)

RCRA 8 Metals

Anions (F, Cl, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>)

8081 Pesticides / 8082 PCB's

8260B (VOA)

8270 (Semi-VOA)

X

Date: 4/17/17

Time: 2:20

Date: 4/20/17

Time: 09:50

Relinquished by: [Signature]

Relinquished by: [Signature]

Received by: [Signature]

Received by: [Signature]

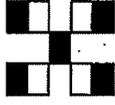
Date

Time

Date

Time

Remarks: Results needed by 4/27/2017.



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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



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)

April 25, 2017

Chase Settle

EOG Resources

105 South Fourth Street

Artesia, NM 88210

TEL: (575) 748-4111

FAX

RE: Vince BGH 1

OrderNo.: 1704922

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/20/2017 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](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 #NM0190

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

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG Resources

**Client Sample ID:** N-1'

**Project:** Vince BGH 1

**Collection Date:** 4/17/2017 11:09:00 AM

**Lab ID:** 1704922-001

**Matrix:** SOIL

**Received Date:** 4/20/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	4/24/2017 3:00:44 PM	31386

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

<b>Qualifiers:</b>	* 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
	R RPD outside accepted recovery limits	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#: 1704922  
25-Apr-17

Client: EOG Resources  
Project: Vince BGH 1

Sample ID	MB-31386	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	31386	RunNo:	42317					
Prep Date:	4/24/2017	Analysis Date:	4/24/2017	SeqNo:	1330756	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-31386	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	31386	RunNo:	42317					
Prep Date:	4/24/2017	Analysis Date:	4/24/2017	SeqNo:	1330757	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.6	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                                    |
| R RPD outside accepted recovery limits                  | RL Reporting Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |



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

# Sample Log-In Check List

Client Name: EOG/Yates

Work Order Number: 1704922

RcptNo: 1

Received By: Lindsay Mangin

4/20/2017 9:50:00 AM

*Lindsay Mangin*

Completed By: Ashley Gallegos

4/20/2017 11:49:31 AM

*Ashley Gallegos*

Reviewed By:

*[Signature]*

04/20/17

### 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 samples? Yes  No  NA
5. Were all samples received at a temperature 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 test(s)? Yes  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  No  No VOA Vials
11. Were any sample containers received broken? Yes  No
12. Does paperwork match bottle labels? Yes  No   
(Note discrepancies on chain of custody)
13. Are matrices correctly identified on Chain of Custody? Yes  No
14. Is it clear what analyses were requested? Yes  No
15. 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: _____

### Special Handling (if applicable)

16. 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: _____	

17. Additional remarks:

### 18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.9	Good	Yes			





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)

April 25, 2017

Chase Settle

EOG Resources

105 South Fourth Street

Artesia, NM 88210

TEL: (575) 748-4111

FAX

RE: Vince BGH 1

OrderNo.: 1704923

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/20/2017 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](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 #NM0190

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



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1704923

25-Apr-17

Client: EOG Resources

Project: Vince BGH 1

Sample ID	MB-31386	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	31386	RunNo:	42317					
Prep Date:	4/24/2017	Analysis Date:	4/24/2017	SeqNo:	1330756	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-31386	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	31386	RunNo:	42317					
Prep Date:	4/24/2017	Analysis Date:	4/24/2017	SeqNo:	1330757	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.6	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                                    |
| R RPD outside accepted recovery limits                  | RL Reporting Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |



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

# Sample Log-In Check List

Client Name: EOG/Yates

Work Order Number: 1704923

RcptNo: 1

Received By: Lindsay Mangin

4/20/2017 9:50:00 AM

*[Signature]*

Completed By: Ashley Gallegos

4/20/2017 11:51:28 AM

*[Signature]*

Reviewed By:

*[Signature]*

04/20/17

### Chain of Custody

1. Custody seals intact on sample bottles?
2. Is Chain of Custody complete?
3. How was the sample delivered?

Yes  No  ~~Not Present~~   
 Yes  No  Not Present

Courier

### Log In

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

Yes  No  NA   
 Yes  No  NA   
 Yes  No   
 Yes  No   
 Yes  No  NA   
 Yes  No  No VOA Vials   
 Yes  No   
 Yes  No   
 Yes  No   
 Yes  No

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

### Special Handling (if applicable)

16. 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: _____	

17. Additional remarks:

### 18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.9	Good	Yes			





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April 25, 2017

Chase Settle

EOG Resources

105 South Fourth Street

Artesia, NM 88210

TEL: (575) 748-4111

FAX

RE: Vince BGH 1

OrderNo.: 1704924

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/20/2017 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](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 #NM0190

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

**Analytical Report**

Lab Order 1704924

Date Reported: 4/25/2017

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG Resources

**Client Sample ID:** Ex-4'

**Project:** Vince BGH 1

**Collection Date:** 4/17/2017 11:13:00 AM

**Lab ID:** 1704924-001

**Matrix:** SOIL

**Received Date:** 4/20/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	8.5	3.0		mg/Kg	2	4/24/2017 3:50:22 PM	31386

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

<b>Qualifiers:</b>	*	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
	R	RPD outside accepted recovery limits	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#: 1704924

25-Apr-17

Client: EOG Resources

Project: Vince BGH 1

Sample ID	MB-31386	SampType:	mbk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	31386	RunNo:	42317					
Prep Date:	4/24/2017	Analysis Date:	4/24/2017	SeqNo:	1330756	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-31386	SampType:	Ics	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	31386	RunNo:	42317					
Prep Date:	4/24/2017	Analysis Date:	4/24/2017	SeqNo:	1330757	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.6	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                                    |
| R RPD outside accepted recovery limits                  | RL Reporting Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

**Sample Log-In Check List**

Client Name: **EOG/Yates**

Work Order Number: **1704924**

RcptNo: **1**

Received By: **Lindsay Mangin**

4/20/2017 9:50:00 AM

*[Signature]*

Completed By: **Ashley Gallegos**

4/20/2017 11:53:57 AM

*[Signature]*

Reviewed By:

*[Signature]*

04/20/17

**Chain of Custody**

1. Custody seals intact on sample bottles?
2. Is Chain of Custody complete?
3. How was the sample delivered?

Yes  No  ~~Not Present~~   
 Yes  No  Not Present   
Courier

**Log In**

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

Yes  No  NA   
 Yes  No  NA   
 Yes  No   
 Yes  No   
 Yes  No  NA   
 Yes  No  No VOA Vials   
 Yes  No   
 Yes  No   
 Yes  No   
 Yes  No   
 Yes  No

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

**Special Handling (if applicable)**

16. 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: _____	

17. Additional remarks:

**Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.9	Good	Yes			





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April 25, 2017

Chase Settle  
EOG Resources  
105 South Fourth Street  
Artesia, NM 88210  
TEL: (575) 748-4111  
FAX

RE: Vince BGH 1

OrderNo.: 1704925

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/20/2017 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](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 #NM0190

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

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: EOG Resources

Client Sample ID: Ex-5'

Project: Vince BGH 1

Collection Date: 4/17/2017 11:19:00 AM

Lab ID: 1704925-001

Matrix: SOIL

Received Date: 4/20/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	4/24/2017 4:02:46 PM	31386

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

<b>Qualifiers:</b>	* 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
	R RPD outside accepted recovery limits	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#: 1704925  
25-Apr-17

Client: EOG Resources  
Project: Vince BGH 1

Sample ID	MB-31386	SampType:	mbk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	31386	RunNo:	42317					
Prep Date:	4/24/2017	Analysis Date:	4/24/2017	SeqNo:	1330756	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-31386	SampType:	Ics	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	31386	RunNo:	42317					
Prep Date:	4/24/2017	Analysis Date:	4/24/2017	SeqNo:	1330757	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.6	90	110			

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- 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
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified



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

# Sample Log-In Check List

Client Name: EOG/Yates

Work Order Number: 1704925

RcptNo: 1

Received By: Lindsay Mangin 4/20/2017 9:50:00 AM *[Signature]*

Completed By: Ashley Gallegos 4/20/2017 11:58:43 AM *[Signature]*

Reviewed By: *[Signature]* 04/20/17

**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 samples? Yes  No  NA
- 5. Were all samples received at a temperature 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 test(s)? Yes  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  No  No VOA Vials
- 11. Were any sample containers received broken? Yes  No
- 12. Does paperwork match bottle labels? Yes  No   
(Note discrepancies on chain of custody)
- 13. Are matrices correctly identified on Chain of Custody? Yes  No
- 14. Is it clear what analyses were requested? Yes  No
- 15. 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: _____

**Special Handling (if applicable)**

- 16. 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: _____	

17. Additional remarks:

**18. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.9	Good	Yes			

