**Enduring Resources** 

**Project:** 

**Analytical Report**Lab Order **1810596** 

Date Reported:

Collection Date: 10/9/2018 8:37:00 AM

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: John Shomaker & Assoc. Client Sample ID: First Swab Run

**Lab ID:** 1810596-001 **Matrix:** AQUEOUS **Received Date:** 10/10/2018 12:40:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Fluoride	ND	0.50		mg/L	5	10/10/2018 7:01:11 PM	R54788
Chloride	27	2.5		mg/L	5	10/10/2018 7:01:11 PM	R54788
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	10/10/2018 7:01:11 PM	R54788
Bromide	ND	0.50		mg/L	5	10/10/2018 7:01:11 PM	R54788
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	10/10/2018 7:01:11 PM	R54788
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	10/10/2018 7:01:11 PM	R54788
Sulfate	460	10	*	mg/L	20	10/10/2018 7:13:35 PM	R54788
SM2510B: SPECIFIC CONDUCTANCE						Analyst:	MRA
Conductivity	1300	5.0		µmhos/c	: 1	10/11/2018 2:57:17 PM	R54833
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	KS
Total Dissolved Solids	820	100	*D	mg/L	1	10/15/2018 4:39:00 PM	40981
SM4500-H+B / 9040C: PH						Analyst:	MRA
рН	8.22		Н	pH units	1	10/11/2018 2:57:17 PM	R54833
EPA METHOD 200.7: METALS						Analyst:	JLF
Calcium	15	1.0		mg/L	1	10/16/2018 6:57:32 PM	40970
Magnesium	4.5	1.0		mg/L	1	10/16/2018 6:57:32 PM	40970
Potassium	9.3	1.0		mg/L	1	10/16/2018 6:57:32 PM	40970
Sodium	270	10		mg/L	10	10/16/2018 6:59:21 PM	40970

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

**Analytical Report**Lab Order **1810596** 

Date Reported:

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: John Shomaker & Assoc.

Client Sample ID: First Formation

 Project:
 Enduring Resources
 Collection Date: 10/9/2018 11:52:00 AM

 Lab ID:
 1810596-002
 Matrix: AQUEOUS
 Received Date: 10/10/2018 12:40:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Fluoride	5.8	0.50	*	mg/L	5	10/10/2018 7:26:00 PM	R54788
Chloride	1400	100	*	mg/L	200	10/12/2018 3:31:22 AM	R54823
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	10/10/2018 7:26:00 PM	R54788
Bromide	1.5	0.50		mg/L	5	10/10/2018 7:26:00 PM	R54788
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	10/10/2018 7:26:00 PM	R54788
Phosphorus, Orthophosphate (As P)	ND	10		mg/L	20	10/10/2018 7:38:25 PM	R54788
Sulfate	6100	100	*	mg/L	200	10/12/2018 3:31:22 AM	R54823
SM2510B: SPECIFIC CONDUCTANCE						Analyst:	MRA
Conductivity	13000	10		µmhos/c	2	10/15/2018 3:53:19 PM	R54896
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	KS
Total Dissolved Solids	10200	200	*D	mg/L	1	10/15/2018 4:39:00 PM	40981
SM4500-H+B / 9040C: PH						Analyst:	MRA
pH	7.93		Н	pH units	1	10/11/2018 3:01:50 PM	R54833
EPA METHOD 200.7: METALS						Analyst:	JLF
Calcium	1100	100		mg/L	100	10/16/2018 7:07:08 PM	40970
Magnesium	72	10		mg/L	10	10/16/2018 7:03:08 PM	40970
Potassium	320	10		mg/L	10	10/16/2018 7:03:08 PM	40970
Sodium	3300	100		mg/L	100	10/16/2018 7:07:08 PM	40970

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

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- $\label{eq:Jacobian} \begin{array}{ll} \mbox{\it J} & \mbox{\it Analyte detected below quantitation limits} & \mbox{\it Page 2 of 0} \end{array}$
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

**Enduring Resources** 

**Project:** 

Analytical Report
Lab Order 1810596

Date Reported:

**Collection Date:** 10/9/2018 3:15:00 PM

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: John Shomaker & Assoc. Client Sample ID: Final Swab Run

**Lab ID:** 1810596-003 **Matrix:** AQUEOUS **Received Date:** 10/10/2018 12:40:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Fluoride	6.1	0.50	*	mg/L	5	10/10/2018 7:50:49 PM	R54788
Chloride	950	100	*	mg/L	200	10/12/2018 3:43:47 AM	R54823
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	10/10/2018 7:50:49 PM	R54788
Bromide	0.72	0.50		mg/L	5	10/10/2018 7:50:49 PM	R54788
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	10/10/2018 7:50:49 PM	R54788
Phosphorus, Orthophosphate (As P)	ND	10		mg/L	20	10/10/2018 8:03:14 PM	R54788
Sulfate	6500	100	*	mg/L	200	) 10/12/2018 3:43:47 AM	R54823
SM2510B: SPECIFIC CONDUCTANCE						Analyst	MRA
Conductivity	13000	10		µmhos/c	2	10/15/2018 3:57:20 PM	R54896
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	KS
Total Dissolved Solids	9980	200	*D	mg/L	1	10/15/2018 4:39:00 PM	40981
SM4500-H+B / 9040C: PH						Analyst	MRA
рН	7.66		Н	pH units	1	10/11/2018 3:05:50 PM	R54833
EPA METHOD 200.7: METALS						Analyst	JLF
Calcium	260	100		mg/L	100	10/16/2018 7:10:47 PM	40970
Magnesium	16	10		mg/L	10	10/16/2018 7:08:55 PM	40970
Potassium	84	10		mg/L	10	10/16/2018 7:08:55 PM	40970
Sodium	3300	100		mg/L	100	10/16/2018 7:10:47 PM	40970

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

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- $\label{eq:Jacobian} \begin{array}{ll} \mbox{\it J} & \mbox{\it Analyte detected below quantitation limits} & \mbox{\it Page 3 of 0} \end{array}$
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 300687

### **CONDITIONS**

Operator:	OGRID:
NEW MEXICO ENERGY MINERALS & NATURAL RESOURCE	264235
1220 S St Francis Dr	Action Number:
Santa Fe , NM 87504	300687
	Action Type:
	[IM-SD] Well File Support Doc (ENG) (IM-AWF)

#### CONDITIONS

Created By	/ Condition	Condition Date
pgoetze	None	1/7/2024