



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

July 10, 2018

Johnny Titsworth
Burnett Oil Co Inc
PO Box 188
Loco Hills, NM 88255
TEL: (432) 425-2891
FAX

RE: GJSAU 22 INJ Line

OrderNo.: 1806G85

Dear Johnny Titsworth:

Hall Environmental Analysis Laboratory received 32 sample(s) on 6/28/2018 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 horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order: 1806G85

Date Reported: 7/10/2018

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Burnett Oil Co Inc
Project: GJSAU 22 INJ Line**Lab Order:** 1806G85**Lab ID:** 1806G85-001**Collection Date:** 6/26/2018**Client Sample ID:** SP1 0-1**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	5300	300		mg/Kg	200	7/9/2018 10:40:20 AM	39059
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: irm
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/29/2018 8:14:36 PM	38953
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/29/2018 8:14:36 PM	38953
Surr: DNOP	109	70-130		%Rec	1	6/29/2018 8:14:36 PM	38953
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/29/2018 7:29:10 PM	38950
Surr: BFB	93.8	15-316		%Rec	1	6/29/2018 7:29:10 PM	38950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/29/2018 7:29:10 PM	38950
Toluene	ND	0.049		mg/Kg	1	6/29/2018 7:29:10 PM	38950
Ethylbenzene	ND	0.049		mg/Kg	1	6/29/2018 7:29:10 PM	38950
Xylenes, Total	ND	0.098		mg/Kg	1	6/29/2018 7:29:10 PM	38950
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	6/29/2018 7:29:10 PM	38950

Lab ID: 1806G85-002**Collection Date:** 6/26/2018**Client Sample ID:** SP1 1-2**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	5500	300		mg/Kg	200	7/9/2018 6:16:05 PM	39073

Lab ID: 1806G85-003**Collection Date:** 6/26/2018**Client Sample ID:** SP1 2-3**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	8200	300		mg/Kg	200	7/9/2018 6:28:30 PM	39073

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

- 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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1806G85

Date Reported: 7/10/2018

CLIENT: Burnett Oil Co Inc
Project: GJSAU 22 INJ Line

Lab Order: 1806G85

Lab ID: 1806G85-004

Collection Date: 6/26/2018

Client Sample ID: SP1 3-4

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	8500	300		mg/Kg	200	7/9/2018 6:40:55 PM	39073

Lab ID: 1806G85-005

Collection Date: 6/26/2018

Client Sample ID: SP2 0-1

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	8700	750		mg/Kg	500	7/9/2018 6:53:19 PM	39073
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/29/2018 8:36:54 PM	38953
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/29/2018 8:36:54 PM	38953
Surr: DNOP	99.5	70-130		%Rec	1	6/29/2018 8:36:54 PM	38953
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/29/2018 7:52:33 PM	38950
Surr: BFB	95.6	15-316		%Rec	1	6/29/2018 7:52:33 PM	38950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/29/2018 7:52:33 PM	38950
Toluene	ND	0.048		mg/Kg	1	6/29/2018 7:52:33 PM	38950
Ethylbenzene	ND	0.048		mg/Kg	1	6/29/2018 7:52:33 PM	38950
Xylenes, Total	ND	0.096		mg/Kg	1	6/29/2018 7:52:33 PM	38950
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	6/29/2018 7:52:33 PM	38950

Lab ID: 1806G85-006

Collection Date: 6/26/2018

Client Sample ID: SP2 1-2

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	7900	300		mg/Kg	200	7/9/2018 7:05:44 PM	39073

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

- 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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1806G85

Date Reported: 7/10/2018

CLIENT: Burnett Oil Co Inc
Project: GJSAU 22 INJ Line

Lab Order: 1806G85

Lab ID: 1806G85-007

Collection Date: 6/26/2018

Client Sample ID: SP2 2-3

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	9100	300		mg/Kg	200	7/9/2018 7:18:08 PM	39073

Lab ID: 1806G85-008

Collection Date: 6/26/2018

Client Sample ID: SP2 3-4

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	15000	750		mg/Kg	500	7/9/2018 7:30:32 PM	39073

Lab ID: 1806G85-009

Collection Date: 6/26/2018

Client Sample ID: SP3 0-1

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	4000	150		mg/Kg	100	7/9/2018 7:42:57 PM	39073
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/29/2018 8:59:16 PM	38953
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/29/2018 8:59:16 PM	38953
Surr: DNOP	104	70-130		%Rec	1	6/29/2018 8:59:16 PM	38953
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/29/2018 8:15:55 PM	38950
Surr: BFB	93.3	15-316		%Rec	1	6/29/2018 8:15:55 PM	38950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	6/29/2018 8:15:55 PM	38950
Toluene	ND	0.046		mg/Kg	1	6/29/2018 8:15:55 PM	38950
Ethylbenzene	ND	0.046		mg/Kg	1	6/29/2018 8:15:55 PM	38950
Xylenes, Total	ND	0.091		mg/Kg	1	6/29/2018 8:15:55 PM	38950
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	6/29/2018 8:15:55 PM	38950

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

- 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

Analytical Report

Lab Order: 1806G85

Date Reported: 7/10/2018

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Burnett Oil Co Inc
Project: GJSAU 22 INJ Line**Lab Order:** 1806G85**Lab ID:** 1806G85-010**Collection Date:** 6/26/2018**Client Sample ID:** SP3 1-2**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	6600	300		mg/Kg	200	7/9/2018 8:20:10 PM	39073

Lab ID: 1806G85-011**Collection Date:** 6/26/2018**Client Sample ID:** SP3 2-3**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	8500	300		mg/Kg	200	7/9/2018 8:32:35 PM	39073

Lab ID: 1806G85-012**Collection Date:** 6/26/2018**Client Sample ID:** SP3 3-4**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	11000	750		mg/Kg	500	7/9/2018 8:45:00 PM	39073

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

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

Analytical Report

Lab Order: 1806G85

Date Reported: 7/10/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Burnett Oil Co Inc
Project: GJSAU 22 INJ Line

Lab Order: 1806G85**Lab ID:** 1806G85-013**Collection Date:** 6/26/2018**Client Sample ID:** SP4 0-1**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	5600	300		mg/Kg	200	7/9/2018 8:57:24 PM	39073
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: irm
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/29/2018 9:21:27 PM	38953
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/29/2018 9:21:27 PM	38953
Surr: DNOP	89.4	70-130		%Rec	1	6/29/2018 9:21:27 PM	38953
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/29/2018 8:39:18 PM	38950
Surr: BFB	95.0	15-316		%Rec	1	6/29/2018 8:39:18 PM	38950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/29/2018 8:39:18 PM	38950
Toluene	ND	0.047		mg/Kg	1	6/29/2018 8:39:18 PM	38950
Ethylbenzene	ND	0.047		mg/Kg	1	6/29/2018 8:39:18 PM	38950
Xylenes, Total	ND	0.094		mg/Kg	1	6/29/2018 8:39:18 PM	38950
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	6/29/2018 8:39:18 PM	38950

Lab ID: 1806G85-014**Collection Date:** 6/26/2018**Client Sample ID:** SP4 1-2**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	9700	750		mg/Kg	500	7/9/2018 9:09:48 PM	39073

Lab ID: 1806G85-015**Collection Date:** 6/26/2018**Client Sample ID:** SP4 2-3**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	10000	750		mg/Kg	500	7/9/2018 9:22:13 PM	39073

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

- 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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1806G85

Date Reported: 7/10/2018

CLIENT: Burnett Oil Co Inc
Project: GJSAU 22 INJ Line

Lab Order: 1806G85

Lab ID: 1806G85-016

Collection Date: 6/26/2018

Client Sample ID: SP4 3-4

Matrix: SOIL

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

Analyst: MRA

Chloride	9800	750		mg/Kg	500	7/9/2018 9:34:37 PM	39073
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Lab ID: 1806G85-017

Collection Date: 6/26/2018

Client Sample ID: SP4 4-5

Matrix: SOIL

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

Analyst: MRA

Chloride	9800	750		mg/Kg	500	7/9/2018 9:47:02 PM	39073
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Lab ID: 1806G85-018

Collection Date: 6/26/2018

Client Sample ID: SP4 5-6

Matrix: SOIL

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

Analyst: MRA

Chloride	19000	750		mg/Kg	500	7/9/2018 9:59:27 PM	39097
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Lab ID: 1806G85-019

Collection Date: 6/26/2018

Client Sample ID: SP4 6-7

Matrix: SOIL

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

Analyst: MRA

Chloride	11000	750		mg/Kg	500	7/9/2018 10:11:52 PM	39097
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Lab ID: 1806G85-020

Collection Date: 6/26/2018

Client Sample ID: SP4 7-8

Matrix: SOIL

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

Analyst: MRA

Chloride	13000	750		mg/Kg	500	7/9/2018 10:49:04 PM	39097
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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

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

Analytical Report

Lab Order: 1806G85

Date Reported: 7/10/2018

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Burnett Oil Co Inc
Project: GJSAU 22 INJ Line**Lab Order:** 1806G85**Lab ID:** 1806G85-021**Collection Date:** 6/26/2018**Client Sample ID:** SP4 8-9**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	14000	750		mg/Kg	500	7/9/2018 11:01:29 PM	39097

Lab ID: 1806G85-022**Collection Date:** 6/26/2018**Client Sample ID:** SP5 0-1**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	4200	300		mg/Kg	200	7/9/2018 11:13:54 PM	39097
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/29/2018 9:43:44 PM	38953
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/29/2018 9:43:44 PM	38953
Surr: DNOP	96.7	70-130		%Rec	1	6/29/2018 9:43:44 PM	38953
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/29/2018 9:02:39 PM	38950
Surr: BFB	93.8	15-316		%Rec	1	6/29/2018 9:02:39 PM	38950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	6/29/2018 9:02:39 PM	38950
Toluene	ND	0.046		mg/Kg	1	6/29/2018 9:02:39 PM	38950
Ethylbenzene	ND	0.046		mg/Kg	1	6/29/2018 9:02:39 PM	38950
Xylenes, Total	ND	0.092		mg/Kg	1	6/29/2018 9:02:39 PM	38950
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	6/29/2018 9:02:39 PM	38950

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

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

Analytical Report

Lab Order: 1806G85

Date Reported: 7/10/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Burnett Oil Co Inc
Project: GJSAU 22 INJ Line

Lab Order: 1806G85**Lab ID:** 1806G85-023**Collection Date:** 6/26/2018**Client Sample ID:** SP6 0-1**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	340	30		mg/Kg	20	7/9/2018 3:34:48 PM	39097
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: irm
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/29/2018 10:06:03 PM	38953
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/29/2018 10:06:03 PM	38953
Surr: DNOP	108	70-130		%Rec	1	6/29/2018 10:06:03 PM	38953
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/29/2018 9:26:02 PM	38950
Surr: BFB	90.3	15-316		%Rec	1	6/29/2018 9:26:02 PM	38950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	6/29/2018 9:26:02 PM	38950
Toluene	ND	0.047		mg/Kg	1	6/29/2018 9:26:02 PM	38950
Ethylbenzene	ND	0.047		mg/Kg	1	6/29/2018 9:26:02 PM	38950
Xylenes, Total	ND	0.094		mg/Kg	1	6/29/2018 9:26:02 PM	38950
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	6/29/2018 9:26:02 PM	38950

Lab ID: 1806G85-024**Collection Date:** 6/26/2018**Client Sample ID:** SP6 1-2**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	420	30		mg/Kg	20	7/9/2018 3:47:12 PM	39097

Lab ID: 1806G85-025**Collection Date:** 6/26/2018**Client Sample ID:** SP6 2-3**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	1200	30		mg/Kg	20	7/9/2018 3:59:36 PM	39097

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

- 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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1806G85

Date Reported: 7/10/2018

CLIENT: Burnett Oil Co Inc
Project: GJSAU 22 INJ Line

Lab Order: 1806G85

Lab ID: 1806G85-026

Collection Date: 6/26/2018

Client Sample ID: SP6 3-4

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	3200	150		mg/Kg	100	7/9/2018 11:26:19 PM	39097

Lab ID: 1806G85-027

Collection Date: 6/26/2018

Client Sample ID: SP6 4-5

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	8000	300		mg/Kg	200	7/9/2018 11:38:44 PM	39097

Lab ID: 1806G85-028

Collection Date: 6/26/2018

Client Sample ID: SP6 5-6

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	8100	300		mg/Kg	200	7/9/2018 11:51:08 PM	39097

Lab ID: 1806G85-029

Collection Date: 6/26/2018

Client Sample ID: SP6 6-7

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	3500	150		mg/Kg	100	7/10/2018 12:03:33 AM	39097

Lab ID: 1806G85-030

Collection Date: 6/26/2018

Client Sample ID: SP6 7-8

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	1100	30		mg/Kg	20	7/9/2018 5:01:39 PM	39097

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

- 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

Analytical ReportLab Order: **1806G85**Date Reported: **7/10/2018****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Burnett Oil Co Inc
Project: GJSAU 22 INJ Line**Lab Order:** 1806G85**Lab ID:** 1806G85-031**Collection Date:** 6/26/2018**Client Sample ID:** SP6 8-9**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	1100	30		mg/Kg	20	7/9/2018 5:14:03 PM	39097

Lab ID: 1806G85-032**Collection Date:** 6/26/2018**Client Sample ID:** SP6 9-10**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	500	30		mg/Kg	20	7/9/2018 5:51:17 PM	39097

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

- 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1806G85

10-Jul-18

Client: Burnett Oil Co Inc
Project: GJSAU 22 INJ Line

Sample ID	MB-39059		SampType: MBLK		TestCode: EPA Method 300.0: Anions					
Client ID:	PBS		Batch ID: 39059		RunNo: 52494					
Prep Date:	7/5/2018		Analysis Date: 7/5/2018		SeqNo: 1721495		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-39059		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 39059		RunNo: 52494					
Prep Date:	7/5/2018		Analysis Date: 7/5/2018		SeqNo: 1721496		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.1	90	110			

Sample ID	MB-39073		SampType: mblk		TestCode: EPA Method 300.0: Anions					
Client ID:	PBS		Batch ID: 39073		RunNo: 52505					
Prep Date:	7/6/2018		Analysis Date: 7/6/2018		SeqNo: 1723075		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-39073		SampType: lcs		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 39073		RunNo: 52505					
Prep Date:	7/6/2018		Analysis Date: 7/6/2018		SeqNo: 1723076		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.8	90	110			

Sample ID	MB-39097		SampType: mblk		TestCode: EPA Method 300.0: Anions					
Client ID:	PBS		Batch ID: 39097		RunNo: 52563					
Prep Date:	7/9/2018		Analysis Date: 7/9/2018		SeqNo: 1724219		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-39097		SampType: lcs		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 39097		RunNo: 52563					
Prep Date:	7/9/2018		Analysis Date: 7/9/2018		SeqNo: 1724220		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.8	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 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#: 1806G85

10-Jul-18

Client: Burnett Oil Co Inc
Project: GJSAU 22 INJ Line

Sample ID	MB-38953		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 38953		RunNo: 52358					
Prep Date:	6/28/2018		Analysis Date: 6/29/2018		SeqNo: 1716480		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	8.8		10.00		87.9	70	130			

Sample ID	LCS-38953		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 38953		RunNo: 52358					
Prep Date:	6/28/2018		Analysis Date: 6/29/2018		SeqNo: 1716481		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	101	70	130			
Surr: DNOP	4.2		5.000		84.6	70	130			

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#: 1806G85

10-Jul-18

Client: Burnett Oil Co Inc
Project: GJSAU 22 INJ Line

Sample ID	MB-38950		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 38950		RunNo: 52392					
Prep Date:	6/28/2018		Analysis Date: 6/29/2018		SeqNo: 1717307		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	980		1000		97.8	15	316			

Sample ID	LCS-38950		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 38950		RunNo: 52392					
Prep Date:	6/28/2018		Analysis Date: 6/29/2018		SeqNo: 1717308		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	75.9	131			
Surr: BFB	1000		1000		104	15	316			

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#: 1806G85

10-Jul-18

Client: Burnett Oil Co Inc
Project: GJSAU 22 INJ Line

Sample ID	MB-38950		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS		Batch ID: 38950		RunNo: 52392					
Prep Date:	6/28/2018		Analysis Date: 6/29/2018		SeqNo: 1717332		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Sample ID	LCS-38950		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 38950		RunNo: 52392					
Prep Date:	6/28/2018		Analysis Date: 6/29/2018		SeqNo: 1717333		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.5	77.3	128			
Toluene	0.98	0.050	1.000	0	97.5	79.2	125			
Ethylbenzene	0.96	0.050	1.000	0	96.3	80.7	127			
Xylenes, Total	3.0	0.10	3.000	0	98.4	81.6	129			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

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
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P Sample pH Not In Range
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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: BURNETT OIL CO INC

Work Order Number: 1806G85

ReptNo: 1

Received By: Erin Melendrez 6/28/2018 8:25:00 AM

Completed By: Isaiah Ortiz 6/28/2018 9:29:01 AM

Reviewed By: MW 6/28/18

Labeled By: 50612810

UAG

IO

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 $>0^{\circ}\text{C}$ 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?
(Note discrepancies on chain of custody) Yes ☒ No ☐
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?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved bottles checked for pH:
(<2 or ≥ 12 unless noted)
Adjusted? X 6.2418
Checked by: _____

Special Handling (if applicable)

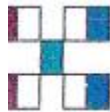
15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.3	Good	Yes			



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Client: Burnett Oil Co., Inc		Project Name: <u>day turn</u>	
Mailing Address:		Project Manager: <u>John Titsworth</u>	
P.O. Box 188 Loco Hills, NM 88255		Project #: <u>675AV 22 WJ. LINE</u>	
Phone #: 432-425-2891		Project Manager: <u>John Titsworth</u>	
email or Fax#: <u>titsworth@burnettoll.com</u>		Sample Temperature: <u>3.3</u>	
QA/QC Package:		Sample Temperature: <u>3.3</u>	
☐ Standard		☒ Yes ☐ No	
Accreditation:		Sample Temperature: <u>3.3</u>	
☐ NELAP		Sample Temperature: <u>3.3</u>	
☐ EDD (Type)		Sample Temperature: <u>3.3</u>	
Date	Time	Matrix	Sample Request ID
12/4/18	AM	soil	SP1 0-1'
			SP1 1-2'
			SP1 2-3'
			SP1 3-4'
			SP2 0-1'
			SP2 1-2'
			SP2 2-3'
			SP2 3-4'
			SP3 0-1'
			SP3 1-2'
			SP3 2-3'
			SP3 3-4'
Date:	Time:	Relinquished by:	Relinquished by:
12/4/18	1147	<u>John Titsworth</u>	<u>John Titsworth</u>
Date:	Time:	Relinquished by:	Relinquished by:
12/4/18	190	<u>John Titsworth</u>	<u>John Titsworth</u>

Any sub-contracted data will be clearly noted on the analytical report. This serves as notice of this possibility. Any sub-contracted data will be clearly noted on the analytical report.

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

Analysis Request

Client: Burnett Oil Co., Inc Mailing Address: P.O. Box 188 Loco Hills, NM 88255 Phone #: 432-425-2891 Email or Fax#: jtitworth@burnettoil.com QA/QC Package: ☐ Standard ☐ Level 4 (Full Validation) Accreditation: ☐ NELAP ☐ Other ☐ EDD (Type)		Project Name: Project #: Project Manager: Johnny Titworth Sampler: Johnny Titworth On Ice: ☒ Yes ☐ No Sample Temperature: 33		Standard ☒ Rush Project Name: Project #: Project Manager: Johnny Titworth Sampler: Johnny Titworth On Ice: ☒ Yes ☐ No Sample Temperature: 33		
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
6/26/18	AM	soil	SP4 0-1'	4 oz.	Ice	-013
			SP4 1-2'			-014
			SP4 2-3'			-015
			SP4 3-4'			-016
			SP4 4-5'			-017
			SP4 5-6'			-018
			SP4 6-7'			-019
			SP4 7-8'			-020
			SP4 8-9'			-021
			SP5 0-1'			-022
						-023
						-024
Relinquished by:			Received by:			
Date: 6/26/18	Time: 1149	Relinquished by: [Signature]		Received by: [Signature]		Date: 6/27/18
Date: 6/26/18	Time: 1900	Relinquished by: [Signature]		Received by: [Signature]		Date: 6/27/18



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Client: Burnett Oil Co., Inc	☒ Standard ☐ Rush
Mailing Address:	Project Name:
P.O. Box 188 Loco Hills, NIM 88255	GSSAU 22 INT. LINE
Phone #: 432-425-2891	Project #:
email or Fax#: jtitworth@burnettoil.com	Project Manager:
QA/QC Package:	Johnny Titsworth
☐ Standard ☐ Level 4 (Full Validation)	Sampler: Johnny Titsworth
Accreditation:	On Ice: ☒ Yes ☐ No
☐ NELAP ☐ Other	Sample Temperature: 3.3
☐ EDD (Type)	

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
2/4/18	AM	soil	SPG 12-1'	4 oz.	Ice	-023
			SPG 1-2'			-024
			SPG 2-3'			-025
			SPG 3-4'			-026
			SPG 4-5'			-027
			SPG 5-6'			-028
			SPG 6-7'			-029
			SPG 7-8'			-030
			SPG 8-9'			-031
			SPG 9-10'			-032

Date: 2/4/18	Time: 1150	Relinquished by: <i>Johnny Titsworth</i>	Received by: <i>SPG</i>	Date: 6/27/18	Time: 0700
Date: 6/28/18	Time: 1900	Relinquished by: <i>SPG</i>	Received by: <i>SPG</i>	Date: 6/28/18	Time: 0825

Remarks: If total TPH exceeds 5,000 mg/kg - run deeper sample.
If total BTEX exceeds 50 mg/kg - run deeper sample
Benzene exceeds 10 mg/kg - run deeper sample