

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

July 24, 2015

Carter Peace
Tasman Geosciences
6899 Pecos Street
Denver, CO 80221
RE: Hoffman

Enclosed are the results of analyses for samples received by Summit Scientific on 07/17/15 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury
President



Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Hoffman
Project Number: [none]
Project Manager: Carter Peace

Reported:
07/24/15 08:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@SURFACE	1507218-01	Soil	07/17/15 00:00	07/17/15 17:00
SS02@SURFACE	1507218-02	Soil	07/17/15 00:00	07/17/15 17:00
SS03@SURFACE	1507218-03	Soil	07/17/15 00:00	07/17/15 17:00

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Hoffman

Project Number: [none]
Project Manager: Carter Peace

Reported:
07/24/15 08:27

150 7218

Summit Scientific

741 Corporate Circle Suite 1 ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

303-277-9311

Client: TASMAN / FOUNDATION (INVOICING)

Address: _____

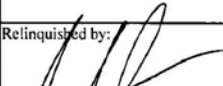

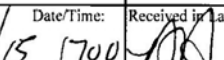
City/State/Zip: _____

Phone: _____ Fax: _____

Sampler Name: CJP

Pro: _____
E-I: _____
Pro: _____
Pro: _____

Project Manager: C PEACE
E-Mail:
Project Name: HOFFMAN
Project Number:

				Preservative		Matrix		Analyze For:				Special Instructions
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	
SS01 <u>W SURFACE</u>	7/17/15		1			X			X		6200 GISTEX	
SS02 <u>W SURFACE</u>			1			X			X		915 DCO	
SS03 <u>W SURFACE</u>			1			X			X		DH	
									X		EC	
									X		SAR	
Relinquished by: _____ Date/Time: _____				Received by: _____ Date/Time: _____		Turn Around Time (Check)				Notes:		
Relinquished by:  _____ Date/Time: _____				Received by: _____ Date/Time: _____		Same Day <input type="checkbox"/> 72 Hours				<input checked="" type="checkbox"/> on ice		
						24 Hours <input type="checkbox"/> Standard						
						48 Hours <input type="checkbox"/>						
Relinquished by:  _____ Date/Time: 7/17/15 1700				Received in Lab by:  _____ Date/Time: 7/17/15 1700		Sample Integrity:						
						Temperature Upon Receipt: 7.3°C						
						Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No						

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Hoffman
Project Number: [none]
Project Manager: Carter Peace

Reported:
07/24/15 08:27

SS01@SURFACE
1507218-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 07/17/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1507207	07/17/15	07/21/15	8015M	

Date Sampled: 07/17/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		115 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/17/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.10	mg/kg	1	1507214	07/17/15	07/21/15	EPA 8260B	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: 07/17/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.5 %	21-167		"	"	"	"	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: 07/17/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Hoffman
Project Number: [none]
Project Manager: Carter Peace

Reported:
07/24/15 08:27

SS01@SURFACE
1507218-01 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Concentration	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	8160	11.3	mg/kg dry	1	1507227	07/20/15	07/20/15	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	294	5.67	"	"	"	"	"	"	
Sodium	2340	5.67	"	"	"	"	"	"	

Date Sampled: 07/17/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.49		units	"	1507244	07/21/15	07/21/15	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 07/17/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.70	0.0100	mmhos/cm	1	1507236	07/20/15	07/20/15	SM 2510B	

Date Sampled: 07/17/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.86	0.100	pH Units	"	1507235	07/20/15	07/20/15	EPA 9045	

Date Sampled: 07/17/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.2		%	"	1507241	07/21/15	07/22/15	% calculation	

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Tasman Geosciences
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Denver CO, 80221

Project: Hoffman
Project Number: [none]
Project Manager: Carter Peace

Reported:
07/24/15 08:27

SS02@SURFACE
1507218-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 07/17/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1507207	07/17/15	07/21/15	8015M	

Date Sampled: 07/17/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		105 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/17/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.10	mg/kg	1	1507214	07/17/15	07/21/15	EPA 8260B	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: 07/17/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.6 %	21-167		"	"	"	"	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: 07/17/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6899 Pecos Street
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Project: Hoffman
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Project Manager: Carter Peace

Reported:
07/24/15 08:27

SS02@SURFACE
1507218-02 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Calcium	ND	9.67 mg/kg dry	1	1507227	07/20/15	07/20/15	EPA 6020/Mod. USDA60 6(2, 3A)
Magnesium	244	4.84	"	"	"	"	"
Sodium	28.1	4.84	"	"	"	"	"

Date Sampled: 07/17/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.351		units	"	1507244	07/21/15	07/21/15	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 07/17/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.294	0.0100	mmhos/cm	1	1507236	07/20/15	07/20/15	SM 2510B	

Date Sampled: 07/17/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.06	0.100	pH Units	"	1507235	07/20/15	07/20/15	EPA 9045	

Date Sampled: 07/17/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.5		%	"	1507241	07/21/15	07/22/15	% calculation	

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Project: Hoffman
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Project Manager: Carter Peace

Reported:
07/24/15 08:27

SS03@SURFACE
1507218-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 07/17/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1507207	07/17/15	07/21/15	8015M	

Date Sampled: 07/17/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		111 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/17/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.10	mg/kg	1	1507214	07/17/15	07/21/15	EPA 8260B	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: 07/17/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.3 %	21-167		"	"	"	"	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: 07/17/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Hoffman
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Reported:
07/24/15 08:27

SS03@SURFACE
1507218-03 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	5390	9.43	mg/kg dry	1	1507227	07/20/15	07/20/15	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	352	4.71	"	"	"	"	"	"	
Sodium	297	4.71	"	"	"	"	"	"	

Date Sampled: 07/17/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.00		units	"	1507244	07/21/15	07/21/15	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 07/17/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.461	0.0100	mmhos/cm	1	1507236	07/20/15	07/20/15	SM 2510B	

Date Sampled: 07/17/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.66	0.100	pH Units	"	1507235	07/20/15	07/20/15	EPA 9045	

Date Sampled: 07/17/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.6		%	"	1507241	07/21/15	07/22/15	% calculation	

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Hoffman
Project Number: [none]
Project Manager: Carter Peace

Reported:
07/24/15 08:27

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1507207 - EPA 3550A

Blank (1507207-BLK1)

Prepared: 07/17/15 Analyzed: 07/20/15

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 13.7 " 12.2 112 30-150

LCS (1507207-BS1)

Prepared: 07/17/15 Analyzed: 07/20/15

C10-C28 (DRO) 468 50 mg/kg 501 93.5 73-134

Surrogate: o-Terphenyl 12.9 " 12.2 106 30-150

Matrix Spike (1507207-MS1)

Source: 1507202-02

Prepared: 07/17/15 Analyzed: 07/20/15

C10-C28 (DRO) 871 50 mg/kg 480 667 42.6 50-148 QM-07

Surrogate: o-Terphenyl 14.0 " 11.7 120 30-150

Matrix Spike Dup (1507207-MSD1)

Source: 1507202-02

Prepared: 07/17/15 Analyzed: 07/20/15

C10-C28 (DRO) 1080 50 mg/kg 484 667 85.9 50-148 21.6 13 QM-07

Surrogate: o-Terphenyl 20.4 " 11.8 173 30-150 S-02

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Project: Hoffman
Project Number: [none]
Project Manager: Carter Peace

Reported:
07/24/15 08:27

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1507214 - EPA 5030 Soil MS

Blank (1507214-BLK1)

Prepared: 07/17/15 Analyzed: 07/20/15

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0384		"	0.0396		97.0	23-173			
Surrogate: Toluene-d8	0.0388		"	0.0400		97.1	20-170			
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400		98.2	21-167			

LCS (1507214-BS1)

Prepared: 07/17/15 Analyzed: 07/20/15

Benzene	0.107	0.0020	mg/kg	0.100		107	58-130			
Toluene	0.106	0.0050	"	0.100		106	61-134			
Ethylbenzene	0.104	0.0050	"	0.0992		105	74-139			
m,p-Xylene	0.217	0.010	"	0.200		109	73-137			
o-Xylene	0.107	0.0050	"	0.0984		109	73-141			
Surrogate: 1,2-Dichloroethane-d4	0.0374		"	0.0396		94.5	23-173			
Surrogate: Toluene-d8	0.0434		"	0.0400		109	20-170			
Surrogate: 4-Bromofluorobenzene	0.0383		"	0.0400		95.8	21-167			

Matrix Spike (1507214-MS1)

Source: 1507201-01

Prepared: 07/17/15 Analyzed: 07/20/15

Benzene	0.109	0.0020	mg/kg	0.0931	ND	118	30-131			
Toluene	0.107	0.0050	"	0.0931	ND	115	30-134			
Ethylbenzene	0.115	0.0050	"	0.0924	ND	125	22-153			
m,p-Xylene	0.233	0.010	"	0.186	ND	126	10-159			
o-Xylene	0.114	0.0050	"	0.0916	ND	125	31-151			
Surrogate: 1,2-Dichloroethane-d4	0.0372		"	0.0369		101	23-173			
Surrogate: Toluene-d8	0.0382		"	0.0372		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0354		"	0.0372		95.2	21-167			

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Project: Hoffman
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Project Manager: Carter Peace

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07/24/15 08:27

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1507214 - EPA 5030 Soil MS

Matrix Spike Dup (1507214-MSD1)		Source: 1507201-01			Prepared: 07/17/15		Analyzed: 07/20/15			
Benzene	0.116	0.0020	mg/kg	0.0940	ND	124	30-131	5.94	34	
Toluene	0.115	0.0050	"	0.0940	ND	123	30-134	7.37	30	
Ethylbenzene	0.127	0.0050	"	0.0932	ND	136	22-153	9.48	24	
m,p-Xylene	0.260	0.010	"	0.188	ND	139	10-159	10.9	68	
o-Xylene	0.128	0.0050	"	0.0925	ND	138	31-151	10.9	38	
Surrogate: 1,2-Dichloroethane-d4	0.0401		"	0.0372		108	23-173			
Surrogate: Toluene-d8	0.0378		"	0.0376		100	20-170			
Surrogate: 4-Bromofluorobenzene	0.0372		"	0.0376		98.9	21-167			

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6899 Pecos Street
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Project: Hoffman
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07/24/15 08:27

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1507227 - General Preparation

Blank (1507227-BLK1)

Prepared & Analyzed: 07/20/15

Calcium	ND	10.0	mg/kg wet
Magnesium	ND	5.00	"
Sodium	ND	5.00	"

LCS (1507227-BS1)

Prepared & Analyzed: 07/20/15

Calcium	507	10.0	mg/kg wet	500	101	82.9-118
Magnesium	501	5.00	"	500	100	77.1-123
Sodium	529	5.00	"	500	106	71-129

Duplicate (1507227-DUP1)

Source: 1507176-01

Prepared & Analyzed: 07/20/15

Calcium	889	10.8	mg/kg dry	842	5.46	200
Magnesium	184	5.39	"	182	1.40	200
Sodium	111	5.39	"	42.0	90.2	200

Matrix Spike (1507227-MS1)

Source: 1507176-01

Prepared & Analyzed: 07/20/15

Calcium	1320	10.8	mg/kg dry	510	842	94.5	75-125
Magnesium	700	5.39	"	510	182	102	75-125
Sodium	554	5.39	"	510	42.0	100	75-125

Matrix Spike Dup (1507227-MSD1)

Source: 1507176-01

Prepared & Analyzed: 07/20/15

Calcium	1330	10.8	mg/kg dry	510	842	96.4	75-125	0.717	25
Magnesium	654	5.39	"	510	182	92.6	75-125	6.84	25
Sodium	517	5.39	"	510	42.0	93.2	75-125	6.92	25

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Project: Hoffman
Project Number: [none]
Project Manager: Carter Peace

Reported:
07/24/15 08:27

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1507235 - General Preparation

LCS (1507235-BS1)

Prepared & Analyzed: 07/20/15

pH	8.06	0.100	pH Units	8.00	101	95-105
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Duplicate (1507235-DUP1)

Source: 1507216-01

Prepared & Analyzed: 07/20/15

pH	8.97	0.100	pH Units	8.93	0.447	20
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Batch 1507236 - General Preparation

Blank (1507236-BLK1)

Prepared & Analyzed: 07/20/15

Specific Conductance (EC)	ND	0.0100	mmhos/cm
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LCS (1507236-BS1)

Prepared & Analyzed: 07/20/15

Specific Conductance (EC)	475	0.0100	mmhos/cm	500	94.9	90-110
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Duplicate (1507236-DUP1)

Source: 1507176-01

Prepared & Analyzed: 07/20/15

Specific Conductance (EC)	0.385	0.0100	mmhos/cm	0.415	7.36	20
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Batch 1507241 - General Preparation

Duplicate (1507241-DUP1)

Source: 1507196-01

Prepared: 07/21/15 Analyzed: 07/22/15

% Solids	74.9	%	73.5	1.89	20
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Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Hoffman
Project Number: [none]
Project Manager: Carter Peace

Reported:
07/24/15 08:27

Notes and Definitions

S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Summit Scientific

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