

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,



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

Client: TASMAN / FOUNDATION (INVOICING) Project Manager: C PEACE
 Address: _____ E-Mail: _____
 City/State/Zip: _____ Project Name: HOFFMAN
 Phone: _____ Fax: _____ Project Number: _____
 Sampler Name: CJP

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative			Matrix			Analyze For:						Special Instructions	
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	PH	EC	SAR	Other		
SS01A SURFACE	7/17/15		1			X						X	X	X	X	X	
SS02A SURFACE			1			X						X	X	X	X	X	
SS03A SURFACE			1			X						X	X	X	X	X	

Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____ Turn Around Time (Check)
 Same Day 72 Hours
 24 Hours Standard
 48 Hours
 Sample Integrity: Temperature Upon Receipt: 7.3°C
 Intact: Yes No

Notes: on ice

7/17/15 1700
 7/17/15 1800
 www.s2scientific.com
 7/17/15



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

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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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: <i>o</i> -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
Project Number: [none]
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

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

Project: Hoffman
Project Number: [none]
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: <i>o</i> -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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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	Concentration	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 Level	Source		%REC		RPD		Notes
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch 1507207 - EPA 3550A

Blank (1507207-BLK1)				Prepared: 07/17/15 Analyzed: 07/20/15							
C10-C28 (DRO)	ND	50	mg/kg								
Surrogate: <i>o</i> -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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -Terphenyl	20.4		"	11.8		173	30-150				S-02

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Project: Hoffman
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Reported:
07/24/15 08:27

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

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

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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6899 Pecos Street
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Project: Hoffman
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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	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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

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

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

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

Batch 1507235 - General Preparation

LCS (1507235-BS1)					Prepared & Analyzed: 07/20/15					
pH	8.06	0.100	pH Units	8.00	101	95-105				
Duplicate (1507235-DUP1)					Source: 1507216-01		Prepared & Analyzed: 07/20/15			
pH	8.97	0.100	pH Units	8.93	0.447	20				

Batch 1507236 - General Preparation

Blank (1507236-BLK1)					Prepared & Analyzed: 07/20/15					
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
LCS (1507236-BS1)					Prepared & Analyzed: 07/20/15					
Specific Conductance (EC)	475	0.0100	mmhos/cm	500	94.9	90-110				
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				

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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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