

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 04, 2022

Jennifer Galles

Marcom LLC

1811 East Mulberry St.

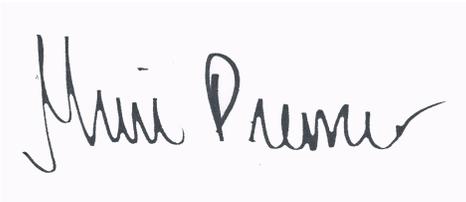
Fort Collins, CO 80524

RE: KPK - RMF Site Confirmation Samples

Work Order #2201228

Enclosed are the results of analyses for samples received by Summit Scientific on 01/20/22 17:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink on a light blue background. The signature reads "Muri Premer" in a cursive script.

Muri Premer For Paul Shrewsbury  
President



Marcom LLC  
1811 East Mulberry St.  
Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
Project Manager: Jennifer Galles

**Reported:**  
03/04/22 11:04

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1@8'	2201228-01	Soil	01/20/22 11:10	01/20/22 17:35
BH-2@8'	2201228-02	Soil	01/20/22 11:15	01/20/22 17:35
BH-3@2'	2201228-03	Soil	01/20/22 11:20	01/20/22 17:35
SW-1@5'	2201228-04	Soil	01/20/22 11:25	01/20/22 17:35
SW-2@5'	2201228-05	Soil	01/20/22 11:35	01/20/22 17:35
SW-3@5'	2201228-06	Soil	01/20/22 11:45	01/20/22 17:35
SW-4@5'	2201228-07	Soil	01/20/22 11:55	01/20/22 17:35
SW-5@2'	2201228-08	Soil	01/20/22 12:05	01/20/22 17:35
SW-5@1'	2201228-09	Soil	01/20/22 12:15	01/20/22 17:35
SW-7@2'	2201228-10	Soil	01/20/22 12:25	01/20/22 17:35

Summit Scientific

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# Summit Scientific

2201228

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 1

Client: Bill to KPK (MarCom llc) Project Manager: Jennifer Galles  
 Address: \_\_\_\_\_ E-Mail: PrimaryContractor@marcomllc.net  
 City/State/Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Project Name: KPK-BMF Site Confirmation Samples  
 Sampler Name: Levi Kirk Project Number: KPK-BMF Site

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	Table	Full	Table	9/15		
1	BH-1@8'	1-20-22	11:10	3			X			X			X					
2	BH-2@8'		11:15															
3	BH-3@2'		11:20															
4	SW-1@5'		11:25															
5	SW-2@5'		11:35															
6	SW-3@5'		11:45															
7	SW-4@5'		11:55															
8	SW-5@2'		12:05															
9	SW-6@1'		12:15															
10	SW-7@2'		12:25															

Relinquished by: <u>Levi Kirk</u>	Date/Time: <u>1-20-22 14:58</u>	Received by: <u>[Signature]</u>	Date/Time: <u>1/20/22 17:35</u>	<b>Turn Around Time (Check)</b> Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> Standard <input type="checkbox"/> 48 hours <input type="checkbox"/> <b>Sample Integrity:</b> Temperature Upon Receipt: <u>4.7</u> Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		





Marcom LLC  
1811 East Mulberry St.  
Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
Project Manager: Jennifer Galles

**Reported:**  
03/04/22 11:04

**BH-1@8'**  
**2201228-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/20/22 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFA0350	01/21/22	01/22/22	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **01/20/22 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		112 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		136 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		120 %		21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/20/22 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BFA0351	01/21/22	01/22/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/20/22 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		75.1 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Marcom LLC  
1811 East Mulberry St.  
Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
Project Manager: Jennifer Galles

**Reported:**  
03/04/22 11:04

**BH-1@8'**  
**2201228-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/20/22 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFA0362	01/24/22	01/25/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/20/22 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		48.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		56.4 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/20/22 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0758</b>	0.0100	mg/L	1	BFA0347	01/21/22	02/08/22	EPA 6020B	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/20/22 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Marcom LLC  
1811 East Mulberry St.  
Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
Project Manager: Jennifer Galles

**Reported:**  
03/04/22 11:04

**BH-1@8'**  
**2201228-01 (Soil)**

**Summit Scientific**

**Hexavalent Chromium by EPA Method 7196**

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Chromium, Hexavalent	ND	0.30 mg/kg dry	1	BFA0465	01/28/22	01/28/22	EPA 7196A
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Marcom LLC  
1811 East Mulberry St.  
Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
Project Manager: Jennifer Galles

**Reported:**  
03/04/22 11:04

**BH-2@8'**  
**2201228-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/20/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFA0350	01/21/22	01/23/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/20/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		95.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		153 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		123 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/20/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0351	01/21/22	01/22/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/20/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		73.4 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Marcom LLC  
1811 East Mulberry St.  
Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
Project Manager: Jennifer Galles

**Reported:**  
03/04/22 11:04

**BH-2@8'**  
**2201228-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/20/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFA0362	01/24/22	01/25/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/20/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		56.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		54.0 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/20/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0834</b>	0.0100	mg/L	1	BFA0347	01/21/22	02/08/22	EPA 6020B	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/20/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Marcom LLC  
 1811 East Mulberry St.  
 Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
 Project Manager: Jennifer Galles

**Reported:**  
 03/04/22 11:04

**BH-2@8'**  
**2201228-02 (Soil)**

**Summit Scientific**

**Hexavalent Chromium by EPA Method 7196**

Chromium, Hexavalent	ND	0.30 mg/kg dry	1	BFA0465	01/28/22	01/28/22	EPA 7196A
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Marcom LLC  
1811 East Mulberry St.  
Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
Project Manager: Jennifer Galles

**Reported:**  
03/04/22 11:04

**BH-3@2'**  
**2201228-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/20/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFA0350	01/21/22	01/23/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/20/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		154 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		130 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/20/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0351	01/21/22	01/22/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/20/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		74.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Marcom LLC  
1811 East Mulberry St.  
Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
Project Manager: Jennifer Galles

**Reported:**  
03/04/22 11:04

**BH-3@2'**  
**2201228-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/20/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFA0362	01/24/22	01/25/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/20/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		60.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		49.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/20/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0710</b>	0.0100	mg/L	1	BFA0347	01/21/22	02/08/22	EPA 6020B	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/20/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Marcom LLC  
 1811 East Mulberry St.  
 Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
 Project Manager: Jennifer Galles

**Reported:**  
 03/04/22 11:04

**BH-3@2'**  
**2201228-03 (Soil)**

**Summit Scientific**

**Hexavalent Chromium by EPA Method 7196**

Chromium, Hexavalent	ND	0.30 mg/kg dry	1	BFA0465	01/28/22	01/28/22	EPA 7196A
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Marcom LLC  
1811 East Mulberry St.  
Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
Project Manager: Jennifer Galles

**Reported:**  
03/04/22 11:04

**SW-1@5'**  
**2201228-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/20/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFA0350	01/21/22	01/23/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/20/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	166 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	134 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	111 %		21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/20/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0351	01/21/22	01/22/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/20/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	84.5 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Marcom LLC  
1811 East Mulberry St.  
Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
Project Manager: Jennifer Galles

**Reported:**  
03/04/22 11:04

**SW-1@5'**  
**2201228-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/20/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFA0362	01/24/22	01/25/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/20/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		58.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		48.4 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/20/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.107</b>	0.0100	mg/L	1	BFA0347	01/21/22	02/08/22	EPA 6020B	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/20/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Marcom LLC  
 1811 East Mulberry St.  
 Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
 Project Manager: Jennifer Galles

**Reported:**  
 03/04/22 11:04

**SW-1@5'**  
**2201228-04 (Soil)**

**Summit Scientific**

**Hexavalent Chromium by EPA Method 7196**

Chromium, Hexavalent	ND	0.30 mg/kg dry	1	BFA0465	01/28/22	01/28/22	EPA 7196A
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Marcom LLC  
1811 East Mulberry St.  
Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
Project Manager: Jennifer Galles

**Reported:**  
03/04/22 11:04

**SW-2@5'**  
**2201228-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/20/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFA0350	01/21/22	01/23/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/20/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		132 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		111 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/20/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0351	01/21/22	01/22/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/20/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		93.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Marcom LLC  
1811 East Mulberry St.  
Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
Project Manager: Jennifer Galles

**Reported:**  
03/04/22 11:04

**SW-2@5'**  
**2201228-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/20/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFA0362	01/24/22	01/25/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/20/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		46.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		42.1 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/20/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.130</b>	0.0100	mg/L	1	BFA0347	01/21/22	02/08/22	EPA 6020B	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/20/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Marcom LLC  
 1811 East Mulberry St.  
 Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
 Project Manager: Jennifer Galles

**Reported:**  
 03/04/22 11:04

**SW-2@5'**  
**2201228-05 (Soil)**

**Summit Scientific**

**Hexavalent Chromium by EPA Method 7196**

Chromium, Hexavalent	ND	0.30 mg/kg dry	1	BFA0465	01/28/22	01/28/22	EPA 7196A
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Marcom LLC  
1811 East Mulberry St.  
Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
Project Manager: Jennifer Galles

**Reported:**  
03/04/22 11:04

**SW-3@5'**  
**2201228-06 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/20/22 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFA0350	01/21/22	01/23/22	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **01/20/22 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		143 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		116 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %		21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/20/22 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>C10-C28 (DRO)</b>	<b>51</b>	50		mg/kg	1	BFA0351	01/21/22	01/22/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/20/22 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		90.8 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Marcom LLC  
1811 East Mulberry St.  
Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
Project Manager: Jennifer Galles

**Reported:**  
03/04/22 11:04

**SW-3@5'**  
**2201228-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/20/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFA0362	01/24/22	01/25/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/20/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		57.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		45.6 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/20/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0911</b>	0.0100	mg/L	1	BFA0347	01/21/22	02/08/22	EPA 6020B	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/20/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Marcom LLC  
 1811 East Mulberry St.  
 Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
 Project Manager: Jennifer Galles

**Reported:**  
 03/04/22 11:04

**SW-3@5'**  
**2201228-06 (Soil)**

**Summit Scientific**

**Hexavalent Chromium by EPA Method 7196**

Chromium, Hexavalent	ND	0.30 mg/kg dry	1	BFA0465	01/28/22	01/28/22	EPA 7196A
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Marcom LLC  
1811 East Mulberry St.  
Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
Project Manager: Jennifer Galles

**Reported:**  
03/04/22 11:04

**SW-4@5'**  
**2201228-07 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/20/22 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFA0350	01/21/22	01/23/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/20/22 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		166 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		131 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/20/22 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0351	01/21/22	01/22/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/20/22 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		94.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Marcom LLC  
1811 East Mulberry St.  
Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
Project Manager: Jennifer Galles

**Reported:**  
03/04/22 11:04

**SW-4@5'**  
**2201228-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/20/22 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFA0362	01/24/22	01/25/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/20/22 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		55.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		46.6 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/20/22 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.104</b>	0.0100	mg/L	1	BFA0347	01/21/22	02/08/22	EPA 6020B	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/20/22 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Marcom LLC  
 1811 East Mulberry St.  
 Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
 Project Manager: Jennifer Galles

**Reported:**  
 03/04/22 11:04

**SW-4@5'**  
**2201228-07 (Soil)**

**Summit Scientific**

**Hexavalent Chromium by EPA Method 7196**

Chromium, Hexavalent	ND	0.30 mg/kg dry	1	BFA0465	01/28/22	01/28/22	EPA 7196A
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Marcom LLC  
1811 East Mulberry St.  
Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
Project Manager: Jennifer Galles

**Reported:**  
03/04/22 11:04

**SW-5@2'**  
**2201228-08 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/20/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFA0350	01/21/22	01/23/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/20/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		148 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		118 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/20/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0351	01/21/22	01/22/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/20/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		98.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Marcom LLC  
1811 East Mulberry St.  
Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
Project Manager: Jennifer Galles

**Reported:**  
03/04/22 11:04

**SW-5@2'**  
**2201228-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/20/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFA0362	01/24/22	01/25/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/20/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		40.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		40.9 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/20/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0420</b>	0.0100	mg/L	1	BFA0347	01/21/22	02/08/22	EPA 6020B	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/20/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Marcom LLC  
1811 East Mulberry St.  
Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
Project Manager: Jennifer Galles

**Reported:**  
03/04/22 11:04

**SW-5@2'**  
**2201228-08 (Soil)**

**Summit Scientific**

**Hexavalent Chromium by EPA Method 7196**

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Chromium, Hexavalent	ND	0.30 mg/kg dry	1	BFA0465	01/28/22	01/28/22	EPA 7196A
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Marcom LLC  
1811 East Mulberry St.  
Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
Project Manager: Jennifer Galles

**Reported:**  
03/04/22 11:04

**SW-5@1'**  
**2201228-09 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/20/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFA0350	01/21/22	01/23/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/20/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		166 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		138 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/20/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0351	01/21/22	01/22/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/20/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		110 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Marcom LLC  
1811 East Mulberry St.  
Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
Project Manager: Jennifer Galles

**Reported:**  
03/04/22 11:04

**SW-5@1'**  
**2201228-09 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/20/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFA0362	01/24/22	01/25/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/20/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		52.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		44.4 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/20/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.163</b>	0.0100	mg/L	1	BFA0347	01/21/22	02/08/22	EPA 6020B	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/20/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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1811 East Mulberry St.  
Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
Project Manager: Jennifer Galles

**Reported:**  
03/04/22 11:04

**SW-5@1'**  
**2201228-09 (Soil)**

**Summit Scientific**

**Hexavalent Chromium by EPA Method 7196**

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Chromium, Hexavalent	ND	0.30 mg/kg dry	1	BFA0465	01/28/22	01/28/22	EPA 7196A
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Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
Project Manager: Jennifer Galles

**Reported:**  
03/04/22 11:04

**SW-7@2'**  
**2201228-10 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/20/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFA0350	01/21/22	01/23/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/20/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		153 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		119 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/20/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0351	01/21/22	01/22/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/20/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		95.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Marcom LLC  
1811 East Mulberry St.  
Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
Project Manager: Jennifer Galles

**Reported:**  
03/04/22 11:04

**SW-7@2'**  
**2201228-10 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/20/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFA0362	01/24/22	01/25/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/20/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		45.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		41.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/20/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.160</b>	0.0100	mg/L	1	BFA0347	01/21/22	02/08/22	EPA 6020B	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/20/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Marcom LLC  
 1811 East Mulberry St.  
 Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
 Project Manager: Jennifer Galles

**Reported:**  
 03/04/22 11:04

**SW-7@2'**  
**2201228-10 (Soil)**

**Summit Scientific**

**Hexavalent Chromium by EPA Method 7196**

Chromium, Hexavalent	ND	0.30 mg/kg dry	1	BFA0465	01/28/22	01/28/22	EPA 7196A
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Marcom LLC  
1811 East Mulberry St.  
Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
Project Manager: Jennifer Galles

**Reported:**  
03/04/22 11:04

### 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 BFA0350 - EPA 5030 Soil MS

##### Blank (BFA0350-BLK1)

Prepared: 01/21/22 Analyzed: 01/22/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0510		"	0.0400		127	23-173			
<i>Surrogate: Toluene-d8</i>	0.0412		"	0.0400		103	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0545		"	0.0400		136	21-167			

##### LCS (BFA0350-BS1)

Prepared: 01/21/22 Analyzed: 01/22/22

Benzene	0.112	0.0020	mg/kg	0.100		112	70-130			
Toluene	0.104	0.0050	"	0.100		104	70-130			
Ethylbenzene	0.108	0.0050	"	0.100		108	70-130			
m,p-Xylene	0.249	0.010	"	0.200		124	70-130			
o-Xylene	0.127	0.0050	"	0.100		127	70-130			
1,2,4-Trimethylbenzene	0.110	0.0050	"	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.101	0.0050	"	0.100		101	70-130			
Naphthalene	0.112	0.0038	"	0.100		112	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0510		"	0.0400		127	23-173			
<i>Surrogate: Toluene-d8</i>	0.0422		"	0.0400		105	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0479		"	0.0400		120	21-167			

##### Matrix Spike (BFA0350-MS1)

Source: 2201221-01

Prepared: 01/21/22 Analyzed: 01/22/22

Benzene	0.100	0.0020	mg/kg	0.100	ND	100	70-130			
Toluene	0.106	0.0050	"	0.100	ND	106	70-130			
Ethylbenzene	0.0955	0.0050	"	0.100	ND	95.5	70-130			
m,p-Xylene	0.196	0.010	"	0.200	ND	97.8	70-130			
o-Xylene	0.100	0.0050	"	0.100	ND	100	70-130			
1,2,4-Trimethylbenzene	0.0977	0.0050	"	0.100	ND	97.7	70-130			
1,3,5-Trimethylbenzene	0.0961	0.0050	"	0.100	ND	96.1	70-130			
Naphthalene	0.0984	0.0038	"	0.100	ND	98.4	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0485		"	0.0400		121	23-173			
<i>Surrogate: Toluene-d8</i>	0.0434		"	0.0400		109	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0430		"	0.0400		108	21-167			

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Marcom LLC  
 1811 East Mulberry St.  
 Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
 Project Manager: Jennifer Galles

**Reported:**  
 03/04/22 11:04

**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 BFA0350 - EPA 5030 Soil MS**

Matrix Spike Dup (BFA0350-MSD1)	Source: 2201221-01			Prepared: 01/21/22 Analyzed: 01/22/22						
Benzene	0.108	0.0020	mg/kg	0.100	ND	108	70-130	7.01	30	
Toluene	0.113	0.0050	"	0.100	ND	113	70-130	6.54	30	
Ethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130	6.80	30	
m,p-Xylene	0.209	0.010	"	0.200	ND	105	70-130	6.60	30	
o-Xylene	0.106	0.0050	"	0.100	ND	106	70-130	6.02	30	
1,2,4-Trimethylbenzene	0.104	0.0050	"	0.100	ND	104	70-130	6.36	30	
1,3,5-Trimethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130	6.84	30	
Naphthalene	0.109	0.0038	"	0.100	ND	109	70-130	10.3	30	
Surrogate: 1,2-Dichloroethane-d4	0.0491		"	0.0400		123	23-173			
Surrogate: Toluene-d8	0.0428		"	0.0400		107	20-170			
Surrogate: 4-Bromofluorobenzene	0.0423		"	0.0400		106	21-167			

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Marcom LLC  
 1811 East Mulberry St.  
 Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
 Project Manager: Jennifer Galles

**Reported:**  
 03/04/22 11:04

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BFA0351 - EPA 3550A**

**Blank (BFA0351-BLK1)**

Prepared & Analyzed: 01/21/22

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								

**LCS (BFA0351-BS1)**

Prepared & Analyzed: 01/21/22

C10-C28 (DRO)	395	50	mg/kg	500	78.9	70-130					
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**Matrix Spike (BFA0351-MS1)**

Source: 2201221-01

Prepared & Analyzed: 01/21/22

C10-C28 (DRO)	455	50	mg/kg	500	23.0	86.5	70-130				
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**Matrix Spike Dup (BFA0351-MSD1)**

Source: 2201221-01

Prepared & Analyzed: 01/21/22

C10-C28 (DRO)	433	50	mg/kg	500	23.0	82.1	70-130	4.97	20		
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Marcom LLC  
1811 East Mulberry St.  
Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
Project Manager: Jennifer Galles

**Reported:**  
03/04/22 11:04

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BFA0362 - EPA 5030 Soil MS**

**Blank (BFA0362-BLK1)**

Prepared: 01/24/22 Analyzed: 01/25/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0242		"	0.0333		72.6	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0205		"	0.0333		61.6	40-150			

**LCS (BFA0362-BS1)**

Prepared: 01/24/22 Analyzed: 01/25/22

Acenaphthene	0.0230	0.00500	mg/kg	0.0333		69.0	31-137			
Anthracene	0.0260	0.00500	"	0.0333		77.9	30-120			
Benzo (a) anthracene	0.0251	0.00500	"	0.0333		75.4	30-120			
Benzo (a) pyrene	0.0262	0.00500	"	0.0333		78.6	30-120			
Benzo (b) fluoranthene	0.0255	0.00500	"	0.0333		76.6	30-120			
Benzo (k) fluoranthene	0.0276	0.00500	"	0.0333		82.7	30-120			
Chrysene	0.0267	0.00500	"	0.0333		80.0	30-120			
Dibenz (a,h) anthracene	0.0294	0.00500	"	0.0333		88.1	30-120			
Fluoranthene	0.0251	0.00500	"	0.0333		75.2	30-120			
Fluorene	0.0262	0.00500	"	0.0333		78.6	30-120			
Indeno (1,2,3-cd) pyrene	0.0337	0.00500	"	0.0333		101	30-120			
Pyrene	0.0264	0.00500	"	0.0333		79.3	35-142			
1-Methylnaphthalene	0.0243	0.00500	"	0.0333		72.8	35-142			
2-Methylnaphthalene	0.0266	0.00500	"	0.0333		79.8	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0474		"	0.0333		142	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0471		"	0.0333		141	40-150			

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.



Marcom LLC  
1811 East Mulberry St.  
Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
Project Manager: Jennifer Galles

Reported:  
03/04/22 11:04

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFA0362 - EPA 5030 Soil MS

Matrix Spike (BFA0362-MS1)	Source: 2201224-01			Prepared: 01/24/22 Analyzed: 01/25/22						
Acenaphthene	0.0319	0.00500	mg/kg	0.0333	ND	95.7	31-137			
Anthracene	0.192	0.00500	"	0.0333	0.0348	473	30-120			QM-07
Benzo (a) anthracene	0.0177	0.00500	"	0.0333	ND	53.1	30-120			
Benzo (a) pyrene	0.0162	0.00500	"	0.0333	ND	48.7	30-120			
Benzo (b) fluoranthene	0.0185	0.00500	"	0.0333	ND	55.5	30-120			
Benzo (k) fluoranthene	0.0176	0.00500	"	0.0333	ND	52.7	30-120			
Chrysene	0.0435	0.00500	"	0.0333	0.00476	116	30-120			
Dibenz (a,h) anthracene	0.0167	0.00500	"	0.0333	ND	50.1	30-120			
Fluoranthene	0.0186	0.00500	"	0.0333	ND	55.7	30-120			
Fluorene	0.0664	0.00500	"	0.0333	0.0108	167	30-120			QM-07
Indeno (1,2,3-cd) pyrene	0.0181	0.00500	"	0.0333	ND	54.4	30-120			
Pyrene	0.0377	0.00500	"	0.0333	ND	113	35-142			
1-Methylnaphthalene	0.172	0.00500	"	0.0333	0.0254	439	15-130			QM-07
2-Methylnaphthalene	0.0557	0.00500	"	0.0333	0.00233	160	15-130			QM-07
Surrogate: 2-Methylnaphthalene-d10	0.0329		"	0.0333		98.7	40-150			
Surrogate: Fluoranthene-d10	0.0362		"	0.0333		108	40-150			

Matrix Spike Dup (BFA0362-MSD1)	Source: 2201224-01			Prepared: 01/24/22 Analyzed: 01/25/22						
Acenaphthene	0.0240	0.00500	mg/kg	0.0333	ND	72.1	31-137	28.1	30	
Anthracene	0.0890	0.00500	"	0.0333	0.0348	162	30-120	73.6	30	QM-07
Benzo (a) anthracene	0.0200	0.00500	"	0.0333	ND	60.1	30-120	12.3	30	
Benzo (a) pyrene	0.0217	0.00500	"	0.0333	ND	65.2	30-120	29.0	30	
Benzo (b) fluoranthene	0.0219	0.00500	"	0.0333	ND	65.8	30-120	17.0	30	
Benzo (k) fluoranthene	0.0239	0.00500	"	0.0333	ND	71.6	30-120	30.5	30	QM-07
Chrysene	0.0291	0.00500	"	0.0333	0.00476	73.1	30-120	39.6	30	QM-07
Dibenz (a,h) anthracene	0.0164	0.00500	"	0.0333	ND	49.0	30-120	2.03	30	
Fluoranthene	0.0215	0.00500	"	0.0333	ND	64.5	30-120	14.7	30	
Fluorene	0.0420	0.00500	"	0.0333	0.0108	93.4	30-120	45.1	30	QM-07
Indeno (1,2,3-cd) pyrene	0.0183	0.00500	"	0.0333	ND	55.0	30-120	1.02	30	
Pyrene	0.0278	0.00500	"	0.0333	ND	83.5	35-142	30.2	30	QM-07
1-Methylnaphthalene	0.0636	0.00500	"	0.0333	0.0254	114	15-130	91.9	50	QM-07
2-Methylnaphthalene	0.0259	0.00500	"	0.0333	0.00233	70.6	15-130	73.1	50	QM-07
Surrogate: 2-Methylnaphthalene-d10	0.0260		"	0.0333		78.1	40-150			
Surrogate: Fluoranthene-d10	0.0327		"	0.0333		98.0	40-150			

Summit Scientific

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Marcom LLC  
 1811 East Mulberry St.  
 Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
 Project Manager: Jennifer Galles

**Reported:**  
 03/04/22 11:04

**Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFA0347 - EPA 3050B**

**Blank (BFA0347-BLK1)**

Prepared: 01/21/22 Analyzed: 02/08/22

Boron ND 0.0100 mg/L

**LCS (BFA0347-BS1)**

Prepared: 01/21/22 Analyzed: 02/08/22

Boron 4.65 0.0100 mg/L 5.00 93.0 80-120

**Duplicate (BFA0347-DUP1)**

Source: 2201189-10

Prepared: 01/21/22 Analyzed: 02/08/22

Boron 0.0182 0.0100 mg/L 0.0195 6.90 20

**Matrix Spike (BFA0347-MS1)**

Source: 2201189-10

Prepared: 01/21/22 Analyzed: 02/08/22

Boron 2.86 0.0100 mg/L 5.00 0.0195 56.8 75-125 QM-05

**Matrix Spike Dup (BFA0347-MSD1)**

Source: 2201189-10

Prepared: 01/21/22 Analyzed: 02/08/22

Boron 2.83 0.0100 mg/L 5.00 0.0195 56.2 75-125 1.05 25 QM-05

Summit Scientific

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Marcom LLC  
 1811 East Mulberry St.  
 Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
 Project Manager: Jennifer Galles

**Reported:**  
 03/04/22 11:04

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BFA0465 - 3060A Mod**

**Blank (BFA0465-BLK1)**

Prepared & Analyzed: 01/28/22

Chromium, Hexavalent      ND      0.30 mg/kg wet

**LCS (BFA0465-BS1)**

Prepared & Analyzed: 01/28/22

Chromium, Hexavalent      23.5      0.30 mg/kg wet      25.0      94.0      80-120

**Duplicate (BFA0465-DUP1)**

**Source: 2201185-01**

Prepared & Analyzed: 01/28/22

Chromium, Hexavalent      ND      0.30 mg/kg dry      ND      20

**Matrix Spike (BFA0465-MS1)**

**Source: 2201185-01**

Prepared & Analyzed: 01/28/22

Chromium, Hexavalent      26.1      0.30 mg/kg dry      28.4      ND      92.0      75-125

**Matrix Spike Dup (BFA0465-MSD1)**

**Source: 2201185-01**

Prepared & Analyzed: 01/28/22

Chromium, Hexavalent      26.1      0.30 mg/kg dry      28.4      ND      92.0      75-125      0.00      20

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.*





**Summit Scientific**  
Paul Shrewsbury  
4653 Table Mountain Dr  
Golden, CO 80403

**RE: 2201228**  
**Work Order Number: 2201481**

March 03, 2022

**Attention Paul Shrewsbury:**

Fremont Analytical, Inc. received 10 sample(s) on 1/28/2022 for the analyses presented in the following report.

***Conductivity by SM 2510B***  
***pH by SM 4500H+B***  
***Sample Moisture (Percent Moisture)***  
***Sodium Adsorption Ratio***  
***Total Metals by EPA Method 6020B***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes  
Project Manager

**CC:**  
Muri Premer

**CLIENT:** Summit Scientific  
**Project:** 2201228  
**Work Order:** 2201481

## Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2201481-001	BH-1@8'	01/20/2022 11:10 AM	01/28/2022 11:11 AM
2201481-001	BH-1@8'	01/20/2022 11:10 AM	01/28/2022 11:11 AM
2201481-002	BH-2@8'	01/20/2022 11:15 AM	01/28/2022 11:11 AM
2201481-002	BH-2@8'	01/20/2022 11:15 AM	01/28/2022 11:11 AM
2201481-003	BH-3@2'	01/20/2022 11:20 AM	01/28/2022 11:11 AM
2201481-003	BH-3@2'	01/20/2022 11:20 AM	01/28/2022 11:11 AM
2201481-004	SW-1@5'	01/20/2022 11:25 AM	01/28/2022 11:11 AM
2201481-004	SW-1@5'	01/20/2022 11:25 AM	01/28/2022 11:11 AM
2201481-005	SW-2@5'	01/20/2022 11:35 AM	01/28/2022 11:11 AM
2201481-005	SW-2@5'	01/20/2022 11:35 AM	01/28/2022 11:11 AM
2201481-006	SW-3@5'	01/20/2022 11:45 AM	01/28/2022 11:11 AM
2201481-006	SW-3@5'	01/20/2022 11:45 AM	01/28/2022 11:11 AM
2201481-007	SW-4@5'	01/20/2022 11:55 AM	01/28/2022 11:11 AM
2201481-007	SW-4@5'	01/20/2022 11:55 AM	01/28/2022 11:11 AM
2201481-008	SW-5@2'	01/20/2022 12:05 PM	01/28/2022 11:11 AM
2201481-008	SW-5@2'	01/20/2022 12:05 PM	01/28/2022 11:11 AM
2201481-009	SW-6@1'	01/20/2022 12:15 PM	01/28/2022 11:11 AM
2201481-009	SW-6@1'	01/20/2022 12:15 PM	01/28/2022 11:11 AM
2201481-010	SW-7@2'	01/20/2022 12:25 PM	01/28/2022 11:11 AM
2201481-010	SW-7@2'	01/20/2022 12:25 PM	01/28/2022 11:11 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

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**CLIENT:** Summit Scientific

**Project:** 2201228

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**I. SAMPLE RECEIPT:**

Samples receipt information is recorded on the attached Sample Receipt Checklist.

**II. GENERAL REPORTING COMMENTS:**

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

**III. ANALYSES AND EXCEPTIONS:**

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

The following preparation methods were performed per client request:

Boron was prepared using Hot Water Soluble Method provided by client.

Conductivity, Sodium Adsorption Ratio, and pH were prepared using Saturated Paste Method provided by client.

### Qualifiers:

- \* - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

### Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



**Client:** Summit Scientific

**Collection Date:** 1/20/2022 11:10:00 AM

**Project:** 2201228

**Lab ID:** 2201481-001

**Matrix:** Soil

**Client Sample ID:** BH-1@8'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Total Metals by EPA Method 6020B**

Batch ID: 35292 Analyst: EH

Arsenic	8.47	0.107		mg/Kg-dry	1	2/9/2022 11:41:28 AM
Barium	71.9	0.533		mg/Kg-dry	1	2/9/2022 11:41:28 AM
Cadmium	0.235	0.178		mg/Kg-dry	1	2/9/2022 11:41:28 AM
Copper	27.6	0.889		mg/Kg-dry	1	2/9/2022 11:41:28 AM
Lead	20.5	0.178		mg/Kg-dry	1	2/9/2022 11:41:28 AM
Nickel	28.4	0.444		mg/Kg-dry	1	2/9/2022 11:41:28 AM
Selenium	2.62	0.178		mg/Kg-dry	1	2/9/2022 11:41:28 AM
Silver	ND	0.133		mg/Kg-dry	1	2/9/2022 11:41:28 AM
Zinc	76.1	1.55		mg/Kg-dry	1	2/9/2022 11:41:28 AM

**Total Metals by EPA Method 6020B**

Batch ID: 35266 Analyst: EH

Boron	0.107	0.00993		mg/L	1	2/10/2022 11:31:03 AM
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**Sodium Adsorption Ratio**

Batch ID: 35565 Analyst: SG

Sodium Adsorption Ratio (SAR)	3.26	0		mEq/L	1	2/18/2022 7:04:00 PM
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**Sample Moisture (Percent Moisture)**

Batch ID: R72975 Analyst: MCH

Percent Moisture	16.6	0.500		wt%	1	2/2/2022 2:32:37 PM
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**Conductivity by SM 2510B**

Batch ID: R73469 Analyst: ALT

Specific Conductance (Conductivity)	132	1.00		µS/cm	1	2/21/2022 3:48:00 PM
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**pH by SM 4500H+B**

Batch ID: R73472 Analyst: SS

Hydrogen Ion (pH)	7.44		H	pH	1	2/21/2022 2:45:00 PM
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**Client:** Summit Scientific

**Collection Date:** 1/20/2022 11:15:00 AM

**Project:** 2201228

**Lab ID:** 2201481-002

**Matrix:** Soil

**Client Sample ID:** BH-2@8'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b><u>Total Metals by EPA Method 6020B</u></b>					Batch ID: 35312	Analyst: EH
Arsenic	7.30	0.117		mg/Kg-dry	1	2/9/2022 2:50:08 PM
Barium	229	0.583		mg/Kg-dry	1	2/9/2022 2:50:08 PM
Cadmium	0.254	0.194		mg/Kg-dry	1	2/9/2022 2:50:08 PM
Copper	19.3	0.972		mg/Kg-dry	1	2/9/2022 2:50:08 PM
Lead	16.9	0.194		mg/Kg-dry	1	2/9/2022 2:50:08 PM
Nickel	15.8	0.486		mg/Kg-dry	1	2/9/2022 2:50:08 PM
Selenium	2.98	0.194		mg/Kg-dry	1	2/9/2022 2:50:08 PM
Silver	ND	0.146		mg/Kg-dry	1	2/9/2022 2:50:08 PM
Zinc	59.6	1.70		mg/Kg-dry	1	2/9/2022 2:50:08 PM
<b><u>Total Metals by EPA Method 6020B</u></b>					Batch ID: 35266	Analyst: EH
Boron	0.168	0.00995		mg/L	1	2/10/2022 11:32:12 AM
<b><u>Sodium Adsorption Ratio</u></b>					Batch ID: 35565	Analyst: SG
Sodium Adsorption Ratio (SAR)	1.68	0		mEq/L	1	2/18/2022 7:06:00 PM
<b><u>Sample Moisture (Percent Moisture)</u></b>					Batch ID: R72975	Analyst: MCH
Percent Moisture	17.7	0.500		wt%	1	2/2/2022 2:32:37 PM
<b><u>Conductivity by SM 2510B</u></b>					Batch ID: R73469	Analyst: ALT
Specific Conductance (Conductivity)	184	1.00		µS/cm	1	2/21/2022 3:48:00 PM
<b><u>pH by SM 4500H+B</u></b>					Batch ID: R73472	Analyst: SS
Hydrogen Ion (pH)	7.80		H	pH	1	2/21/2022 2:45:00 PM



**Client:** Summit Scientific

**Collection Date:** 1/20/2022 11:20:00 AM

**Project:** 2201228

**Lab ID:** 2201481-003

**Matrix:** Soil

**Client Sample ID:** BH-3@2'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Total Metals by EPA Method 6020B**

Batch ID: 35312 Analyst: EH

Arsenic	9.05	0.106		mg/Kg-dry	1	2/9/2022 2:52:50 PM
Barium	226	0.530	E	mg/Kg-dry	1	2/9/2022 2:52:50 PM
Cadmium	0.471	0.177		mg/Kg-dry	1	2/9/2022 2:52:50 PM
Copper	17.6	0.883		mg/Kg-dry	1	2/9/2022 2:52:50 PM
Lead	16.6	0.177		mg/Kg-dry	1	2/9/2022 2:52:50 PM
Nickel	20.1	0.441		mg/Kg-dry	1	2/9/2022 2:52:50 PM
Selenium	3.04	0.177		mg/Kg-dry	1	2/9/2022 2:52:50 PM
Silver	ND	0.132		mg/Kg-dry	1	2/9/2022 2:52:50 PM
Zinc	66.9	1.54		mg/Kg-dry	1	2/9/2022 2:52:50 PM

**Total Metals by EPA Method 6020B**

Batch ID: 35266 Analyst: EH

Boron	0.187	0.00987		mg/L	1	2/10/2022 11:33:22 AM
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**Sodium Adsorption Ratio**

Batch ID: 35565 Analyst: SG

Sodium Adsorption Ratio (SAR)	0.344	0		mEq/L	1	2/18/2022 7:09:00 PM
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**Sample Moisture (Percent Moisture)**

Batch ID: R72975 Analyst: MCH

Percent Moisture	9.36	0.500		wt%	1	2/2/2022 2:32:37 PM
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**Conductivity by SM 2510B**

Batch ID: R73469 Analyst: ALT

Specific Conductance (Conductivity)	55.4	1.00		µS/cm	1	2/21/2022 3:48:00 PM
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**pH by SM 4500H+B**

Batch ID: R73472 Analyst: SS

Hydrogen Ion (pH)	7.76		H	pH	1	2/21/2022 2:45:00 PM
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**Client:** Summit Scientific

**Collection Date:** 1/20/2022 11:25:00 AM

**Project:** 2201228

**Lab ID:** 2201481-004

**Matrix:** Soil

**Client Sample ID:** SW-1 @5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b><u>Total Metals by EPA Method 6020B</u></b>				Batch ID: 35312		Analyst: EH
Arsenic	11.1	0.113		mg/Kg-dry	1	2/9/2022 3:01:14 PM
Barium	238	0.564		mg/Kg-dry	1	2/9/2022 3:01:14 PM
Cadmium	0.304	0.188		mg/Kg-dry	1	2/9/2022 3:01:14 PM
Copper	14.9	0.941		mg/Kg-dry	1	2/9/2022 3:01:14 PM
Lead	16.1	0.188		mg/Kg-dry	1	2/9/2022 3:01:14 PM
Nickel	19.2	0.470		mg/Kg-dry	1	2/9/2022 3:01:14 PM
Selenium	2.59	0.188		mg/Kg-dry	1	2/9/2022 3:01:14 PM
Silver	ND	0.141		mg/Kg-dry	1	2/9/2022 3:01:14 PM
Zinc	77.3	1.65		mg/Kg-dry	1	2/9/2022 3:01:14 PM
<b><u>Total Metals by EPA Method 6020B</u></b>				Batch ID: 35266		Analyst: EH
Boron	0.240	0.00996		mg/L	1	2/10/2022 11:37:59 AM
<b><u>Sodium Adsorption Ratio</u></b>				Batch ID: 35565		Analyst: SG
Sodium Adsorption Ratio (SAR)	0.609	0		mEq/L	1	2/18/2022 7:15:00 PM
<b><u>Sample Moisture (Percent Moisture)</u></b>				Batch ID: R72975		Analyst: MCH
Percent Moisture	16.3	0.500		wt%	1	2/2/2022 2:32:37 PM
<b><u>Conductivity by SM 2510B</u></b>				Batch ID: R73469		Analyst: ALT
Specific Conductance (Conductivity)	50.1	1.00		µS/cm	1	2/21/2022 3:48:00 PM
<b><u>pH by SM 4500H+B</u></b>				Batch ID: R73472		Analyst: SS
Hydrogen Ion (pH)	7.92		H	pH	1	2/21/2022 2:45:00 PM



**Client:** Summit Scientific

**Collection Date:** 1/20/2022 11:35:00 AM

**Project:** 2201228

**Lab ID:** 2201481-005

**Matrix:** Soil

**Client Sample ID:** SW-2@5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Total Metals by EPA Method 6020B**

Batch ID: 35312 Analyst: EH

Arsenic	6.28	0.116		mg/Kg-dry	1	2/9/2022 3:03:56 PM
Barium	326	0.578		mg/Kg-dry	1	2/9/2022 3:03:56 PM
Cadmium	0.287	0.193		mg/Kg-dry	1	2/9/2022 3:03:56 PM
Copper	14.2	0.963		mg/Kg-dry	1	2/9/2022 3:03:56 PM
Lead	12.6	0.193		mg/Kg-dry	1	2/9/2022 3:03:56 PM
Nickel	16.7	0.481		mg/Kg-dry	1	2/9/2022 3:03:56 PM
Selenium	2.67	0.193		mg/Kg-dry	1	2/9/2022 3:03:56 PM
Silver	ND	0.144		mg/Kg-dry	1	2/9/2022 3:03:56 PM
Zinc	57.4	1.68		mg/Kg-dry	1	2/9/2022 3:03:56 PM

**Total Metals by EPA Method 6020B**

Batch ID: 35266 Analyst: EH

Boron	0.161	0.00993		mg/L	1	2/10/2022 11:39:09 AM
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**Sodium Adsorption Ratio**

Batch ID: 35565 Analyst: SG

Sodium Adsorption Ratio (SAR)	0.519	0		mEq/L	1	2/18/2022 7:18:00 PM
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**Sample Moisture (Percent Moisture)**

Batch ID: R72975 Analyst: MCH

Percent Moisture	16.9	0.500		wt%	1	2/2/2022 2:32:37 PM
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**Conductivity by SM 2510B**

Batch ID: R73469 Analyst: ALT

Specific Conductance (Conductivity)	79.1	1.00		µS/cm	1	2/21/2022 3:48:00 PM
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**pH by SM 4500H+B**

Batch ID: R73472 Analyst: SS

Hydrogen Ion (pH)	9.04		H	pH	1	2/21/2022 2:45:00 PM
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**Client:** Summit Scientific

**Collection Date:** 1/20/2022 11:45:00 AM

**Project:** 2201228

**Lab ID:** 2201481-006

**Matrix:** Soil

**Client Sample ID:** SW-3@5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Total Metals by EPA Method 6020B**

Batch ID: 35312 Analyst: EH

Arsenic	9.36	0.108		mg/Kg-dry	1	2/9/2022 3:06:37 PM
Barium	273	0.540		mg/Kg-dry	1	2/9/2022 3:06:37 PM
Cadmium	0.403	0.180		mg/Kg-dry	1	2/9/2022 3:06:37 PM
Copper	18.0	0.901		mg/Kg-dry	1	2/9/2022 3:06:37 PM
Lead	14.3	0.180		mg/Kg-dry	1	2/9/2022 3:06:37 PM
Nickel	19.2	0.450		mg/Kg-dry	1	2/9/2022 3:06:37 PM
Selenium	3.37	0.180		mg/Kg-dry	1	2/9/2022 3:06:37 PM
Silver	ND	0.135		mg/Kg-dry	1	2/9/2022 3:06:37 PM
Zinc	70.9	1.58		mg/Kg-dry	1	2/9/2022 3:06:37 PM

**Total Metals by EPA Method 6020B**

Batch ID: 35266 Analyst: EH

Boron	0.197	0.00989		mg/L	1	2/10/2022 11:40:19 AM
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**Sodium Adsorption Ratio**

Batch ID: 35565 Analyst: SG

Sodium Adsorption Ratio (SAR)	1.47	0		mEq/L	1	2/18/2022 7:20:00 PM
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**Sample Moisture (Percent Moisture)**

Batch ID: R72975 Analyst: MCH

Percent Moisture	14.6	0.500		wt%	1	2/2/2022 2:32:37 PM
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**Conductivity by SM 2510B**

Batch ID: R73469 Analyst: ALT

Specific Conductance (Conductivity)	112	1.00		µS/cm	1	2/21/2022 3:48:00 PM
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**pH by SM 4500H+B**

Batch ID: R73472 Analyst: SS

Hydrogen Ion (pH)	9.57		H	pH	1	2/21/2022 2:45:00 PM
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**Client:** Summit Scientific

**Collection Date:** 1/20/2022 11:55:00 AM

**Project:** 2201228

**Lab ID:** 2201481-007

**Matrix:** Soil

**Client Sample ID:** SW-4@5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Total Metals by EPA Method 6020B**

Batch ID: 35312 Analyst: EH

Arsenic	5.18	0.106		mg/Kg-dry	1	2/9/2022 3:09:19 PM
Barium	98.8	0.529		mg/Kg-dry	1	2/9/2022 3:09:19 PM
Cadmium	ND	0.176		mg/Kg-dry	1	2/9/2022 3:09:19 PM
Copper	14.2	0.882		mg/Kg-dry	1	2/9/2022 3:09:19 PM
Lead	15.9	0.176		mg/Kg-dry	1	2/9/2022 3:09:19 PM
Nickel	10.9	0.441		mg/Kg-dry	1	2/9/2022 3:09:19 PM
Selenium	2.11	0.176		mg/Kg-dry	1	2/9/2022 3:09:19 PM
Silver	ND	0.132		mg/Kg-dry	1	2/9/2022 3:09:19 PM
Zinc	41.0	1.54		mg/Kg-dry	1	2/9/2022 3:09:19 PM

**Total Metals by EPA Method 6020B**

Batch ID: 35266 Analyst: EH

Boron	0.162	0.00996		mg/L	1	2/10/2022 11:41:29 AM
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**Sodium Adsorption Ratio**

Batch ID: 35565 Analyst: SG

Sodium Adsorption Ratio (SAR)	1.86	0		mEq/L	1	2/18/2022 7:22:00 PM
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**Sample Moisture (Percent Moisture)**

Batch ID: R72975 Analyst: MCH

Percent Moisture	11.4	0.500		wt%	1	2/2/2022 2:32:37 PM
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**Conductivity by SM 2510B**

Batch ID: R73469 Analyst: ALT

Specific Conductance (Conductivity)	60.3	1.00		µS/cm	1	2/21/2022 3:48:00 PM
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**pH by SM 4500H+B**

Batch ID: R73472 Analyst: SS

Hydrogen Ion (pH)	7.23		H	pH	1	2/21/2022 2:45:00 PM
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**Client:** Summit Scientific

**Collection Date:** 1/20/2022 12:05:00 PM

**Project:** 2201228

**Lab ID:** 2201481-008

**Matrix:** Soil

**Client Sample ID:** SW-5@2'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b><u>Total Metals by EPA Method 6020B</u></b>					Batch ID: 35312	Analyst: EH
Arsenic	7.39	0.104		mg/Kg-dry	1	2/9/2022 3:12:00 PM
Barium	106	0.518		mg/Kg-dry	1	2/9/2022 3:12:00 PM
Cadmium	0.244	0.173		mg/Kg-dry	1	2/9/2022 3:12:00 PM
Copper	11.4	0.863		mg/Kg-dry	1	2/9/2022 3:12:00 PM
Lead	11.6	0.173		mg/Kg-dry	1	2/9/2022 3:12:00 PM
Nickel	14.1	0.431		mg/Kg-dry	1	2/9/2022 3:12:00 PM
Selenium	2.31	0.173		mg/Kg-dry	1	2/9/2022 3:12:00 PM
Silver	ND	0.129		mg/Kg-dry	1	2/9/2022 3:12:00 PM
Zinc	56.6	1.51		mg/Kg-dry	1	2/9/2022 3:12:00 PM
<b><u>Total Metals by EPA Method 6020B</u></b>					Batch ID: 35266	Analyst: EH
Boron	0.105	0.00994		mg/L	1	2/10/2022 11:42:38 AM
<b><u>Sodium Adsorption Ratio</u></b>					Batch ID: 35565	Analyst: SG
Sodium Adsorption Ratio (SAR)	0.163	0		mEq/L	1	2/18/2022 7:25:00 PM
<b><u>Sample Moisture (Percent Moisture)</u></b>					Batch ID: R72975	Analyst: MCH
Percent Moisture	12.2	0.500		wt%	1	2/2/2022 2:32:37 PM
<b><u>Conductivity by SM 2510B</u></b>					Batch ID: R73469	Analyst: ALT
Specific Conductance (Conductivity)	43.5	1.00		µS/cm	1	2/21/2022 3:48:00 PM
<b><u>pH by SM 4500H+B</u></b>					Batch ID: R73472	Analyst: SS
Hydrogen Ion (pH)	9.01		H	pH	1	2/21/2022 2:45:00 PM



**Client:** Summit Scientific

**Collection Date:** 1/20/2022 12:15:00 PM

**Project:** 2201228

**Lab ID:** 2201481-009

**Matrix:** Soil

**Client Sample ID:** SW-6@1'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b><u>Total Metals by EPA Method 6020B</u></b>					Batch ID: 35312	Analyst: EH
Arsenic	6.89	0.109		mg/Kg-dry	1	2/9/2022 3:14:42 PM
Barium	274	0.543		mg/Kg-dry	1	2/9/2022 3:14:42 PM
Cadmium	0.314	0.181		mg/Kg-dry	1	2/9/2022 3:14:42 PM
Copper	14.4	0.904		mg/Kg-dry	1	2/9/2022 3:14:42 PM
Lead	14.4	0.181		mg/Kg-dry	1	2/9/2022 3:14:42 PM
Nickel	16.7	0.452		mg/Kg-dry	1	2/9/2022 3:14:42 PM
Selenium	3.04	0.181		mg/Kg-dry	1	2/9/2022 3:14:42 PM
Silver	ND	0.136		mg/Kg-dry	1	2/9/2022 3:14:42 PM
Zinc	56.0	1.58		mg/Kg-dry	1	2/9/2022 3:14:42 PM
<b><u>Total Metals by EPA Method 6020B</u></b>					Batch ID: 35266	Analyst: EH
Boron	0.359	0.00997		mg/L	1	2/10/2022 11:43:48 AM
<b><u>Sodium Adsorption Ratio</u></b>					Batch ID: 35565	Analyst: SG
Sodium Adsorption Ratio (SAR)	0.829	0		mEq/L	1	2/18/2022 7:27:00 PM
<b><u>Sample Moisture (Percent Moisture)</u></b>					Batch ID: R72975	Analyst: MCH
Percent Moisture	12.9	0.500		wt%	1	2/2/2022 2:32:37 PM
<b><u>Conductivity by SM 2510B</u></b>					Batch ID: R73469	Analyst: ALT
Specific Conductance (Conductivity)	67.1	1.00		µS/cm	1	2/21/2022 3:48:00 PM
<b><u>pH by SM 4500H+B</u></b>					Batch ID: R73472	Analyst: SS
Hydrogen Ion (pH)	9.29		H	pH	1	2/21/2022 2:45:00 PM



**Client:** Summit Scientific

**Collection Date:** 1/20/2022 12:25:00 PM

**Project:** 2201228

**Lab ID:** 2201481-010

**Matrix:** Soil

**Client Sample ID:** SW-7@2'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Total Metals by EPA Method 6020B**

Batch ID: 35312 Analyst: EH

Arsenic	10.5	0.106		mg/Kg-dry	1	2/9/2022 3:17:23 PM
Barium	322	0.528		mg/Kg-dry	1	2/9/2022 3:17:23 PM
Cadmium	0.267	0.176		mg/Kg-dry	1	2/9/2022 3:17:23 PM
Copper	13.8	0.880		mg/Kg-dry	1	2/9/2022 3:17:23 PM
Lead	14.1	0.176		mg/Kg-dry	1	2/9/2022 3:17:23 PM
Nickel	16.3	0.440		mg/Kg-dry	1	2/9/2022 3:17:23 PM
Selenium	2.62	0.176		mg/Kg-dry	1	2/9/2022 3:17:23 PM
Silver	ND	0.132		mg/Kg-dry	1	2/9/2022 3:17:23 PM
Zinc	55.1	1.54		mg/Kg-dry	1	2/9/2022 3:17:23 PM

**Total Metals by EPA Method 6020B**

Batch ID: 35266 Analyst: EH

Boron	0.160	0.00989		mg/L	1	2/10/2022 11:44:58 AM
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**Sodium Adsorption Ratio**

Batch ID: 35565 Analyst: SG

Sodium Adsorption Ratio (SAR)	1.59	0		mEq/L	1	2/18/2022 7:29:00 PM
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**Sample Moisture (Percent Moisture)**

Batch ID: R72975 Analyst: MCH

Percent Moisture	10.5	0.500		wt%	1	2/2/2022 2:32:37 PM
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**Conductivity by SM 2510B**

Batch ID: R73469 Analyst: ALT

Specific Conductance (Conductivity)	170	1.00		µS/cm	1	2/21/2022 3:48:00 PM
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**pH by SM 4500H+B**

Batch ID: R73472 Analyst: SS

Hydrogen Ion (pH)	8.15		H	pH	1	2/21/2022 2:45:00 PM
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Work Order: 2201481  
 CLIENT: Summit Scientific  
 Project: 2201228

**QC SUMMARY REPORT**  
**Conductivity by SM 2510B**

Sample ID: <b>MB-R73469</b>	SampType: <b>MBLK</b>	Units: <b>µS/cm</b>	Prep Date: <b>2/21/2022</b>	RunNo: <b>73469</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R73469</b>	Analysis Date: <b>2/21/2022</b>	SeqNo: <b>1501230</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Specific Conductance (Conductivity) ND 1.00

Sample ID: <b>LCS-R73469</b>	SampType: <b>LCS</b>	Units: <b>µS/cm</b>	Prep Date: <b>2/21/2022</b>	RunNo: <b>73469</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R73469</b>	Analysis Date: <b>2/21/2022</b>	SeqNo: <b>1501231</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Specific Conductance (Conductivity) 983 1.00 1,000 0 98.3 92.2 107

Sample ID: <b>2201479-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µS/cm</b>	Prep Date: <b>2/21/2022</b>	RunNo: <b>73469</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R73469</b>	Analysis Date: <b>2/21/2022</b>	SeqNo: <b>1501233</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Specific Conductance (Conductivity) 52.1 1.00 54.50 4.50 20

Sample ID: <b>LCS-D-R73469</b>	SampType: <b>LCS-D</b>	Units: <b>µS/cm</b>	Prep Date: <b>2/21/2022</b>	RunNo: <b>73469</b>							
Client ID: <b>LCSW02</b>	Batch ID: <b>R73469</b>	Analysis Date: <b>2/21/2022</b>	SeqNo: <b>1501252</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Specific Conductance (Conductivity) 987 1.00 1,000 0 98.7 92.2 107 983.0 0.406 20

Work Order: 2201481  
 CLIENT: Summit Scientific  
 Project: 2201228

**QC SUMMARY REPORT**  
**pH by SM 4500H+B**

Sample ID: <b>MB-R73472</b>	SampType: <b>MBLK</b>	Units: <b>pH</b>	Prep Date: <b>2/21/2022</b>	RunNo: <b>73472</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R73472</b>		Analysis Date: <b>2/21/2022</b>	SeqNo: <b>1501334</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hydrogen Ion (pH) 7.55

Sample ID: <b>LCS-R73472</b>	SampType: <b>LCS</b>	Units: <b>pH</b>	Prep Date: <b>2/21/2022</b>	RunNo: <b>73472</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R73472</b>		Analysis Date: <b>2/21/2022</b>	SeqNo: <b>1501335</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hydrogen Ion (pH) 7.04 7.000 0 101 95 105

Sample ID: <b>2201479-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>pH</b>	Prep Date: <b>2/21/2022</b>	RunNo: <b>73472</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R73472</b>		Analysis Date: <b>2/21/2022</b>	SeqNo: <b>1501337</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hydrogen Ion (pH) 7.84 7.730 1.41 10 H

Sample ID: <b>LCS-D-R73472</b>	SampType: <b>LCS-D</b>	Units: <b>pH Units</b>	Prep Date: <b>2/21/2022</b>	RunNo: <b>73472</b>							
Client ID: <b>LCSW02</b>	Batch ID: <b>R73472</b>		Analysis Date: <b>2/21/2022</b>	SeqNo: <b>1501356</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hydrogen Ion (pH) 7.03 7.000 0 100 95 105 7.040 0.142 10

Work Order: 2201481  
 CLIENT: Summit Scientific  
 Project: 2201228

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 6020B**

Sample ID: <b>MB-35292</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>2/8/2022</b>	RunNo: <b>73136</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>35292</b>		Analysis Date: <b>2/8/2022</b>	SeqNo: <b>1493989</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.0968									
Barium	ND	0.484									
Cadmium	ND	0.161									
Copper	ND	0.806									
Lead	ND	0.161									
Nickel	ND	0.403									
Selenium	ND	0.161									
Silver	ND	0.121									
Zinc	ND	1.41									

Sample ID: <b>2202135-002AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>2/8/2022</b>	RunNo: <b>73136</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>35292</b>		Analysis Date: <b>2/8/2022</b>	SeqNo: <b>1493995</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	84.5	0.176	73.30	3.479	111	75	125				
Barium	179	0.880	73.30	63.80	158	75	125				S
Cadmium	5.66	0.293	3.665	2.187	94.7	75	125				
Copper	127	1.47	73.30	37.52	122	75	125				
Lead	75.3	0.293	36.65	15.55	163	75	125				S
Nickel	98.6	0.733	73.30	2.839	131	75	125				S
Selenium	7.59	0.293	7.330	0	104	75	125				
Silver	3.93	0.220	3.665	0.1019	104	75	125				
Zinc	990	2.57	73.30	291.4	953	75	125				ES

**NOTES:**

- S - Analyte concentration was too high for accurate spike recoveries (Ba, Pb, Zn).
- S - Outlying spike recovery(ies) observed for Ni. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Work Order: 2201481  
 CLIENT: Summit Scientific  
 Project: 2201228

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 6020B**

Sample ID: <b>2202135-002AMSD</b>		SampType: <b>MSD</b>		Units: <b>mg/Kg-dry</b>		Prep Date: <b>2/8/2022</b>		RunNo: <b>73136</b>			
Client ID: <b>BATCH</b>		Batch ID: <b>35292</b>				Analysis Date: <b>2/8/2022</b>		SeqNo: <b>1493996</b>			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	78.1	0.172	71.58	3.479	104	75	125	84.53	7.90	20	
Barium	163	0.859	71.58	63.80	138	75	125	179.4	9.76	20	S
Cadmium	5.63	0.286	3.579	2.187	96.2	75	125	5.659	0.522	20	
Copper	92.8	1.43	71.58	37.52	77.3	75	125	127.3	31.3	20	R
Lead	73.0	0.286	35.79	15.55	161	75	125	75.35	3.13	20	S
Nickel	72.2	0.716	71.58	2.839	96.9	75	125	98.61	30.9	20	R
Selenium	7.15	0.286	7.158	0	99.9	75	125	7.587	5.95	20	
Silver	3.78	0.215	3.579	0.1019	103	75	125	3.926	3.70	20	
Zinc	330	2.51	71.58	291.4	54.3	75	125	989.9	99.9	20	RS

**NOTES:**

S - Analyte concentration was too high for accurate spike recoveries (Ba, Pb, Zn).  
 R - High RPD observed.

Sample ID: <b>2202135-002APDS</b>		SampType: <b>PDS</b>		Units: <b>mg/Kg-dry</b>		Prep Date: <b>2/8/2022</b>		RunNo: <b>73136</b>			
Client ID: <b>BATCH</b>		Batch ID: <b>35292</b>				Analysis Date: <b>2/8/2022</b>		SeqNo: <b>1493997</b>			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	154	0.873	72.7	63.8	125	75	125				
Lead	53.2	0.291	36.4	15.6	104	75	125				
Zinc	355	2.55	72.7	291	87.6	75	125				

Sample ID: <b>LCS-35292</b>		SampType: <b>LCS</b>		Units: <b>mg/Kg</b>		Prep Date: <b>2/8/2022</b>		RunNo: <b>73136</b>			
Client ID: <b>LCSS</b>		Batch ID: <b>35292</b>				Analysis Date: <b>2/9/2022</b>		SeqNo: <b>1494365</b>			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	38.1	0.0952	39.68	0	96.1	80	120				
Barium	41.4	0.476	39.68	0	104	80	120				
Cadmium	1.91	0.159	1.984	0	96.5	80	120				
Copper	40.3	0.794	39.68	0	101	80	120				
Lead	20.6	0.159	19.84	0	104	80	120				

Work Order: 2201481  
 CLIENT: Summit Scientific  
 Project: 2201228

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 6020B**

Sample ID: <b>LCS-35292</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>				Prep Date: <b>2/8/2022</b>	RunNo: <b>73136</b>				
Client ID: <b>LCSS</b>	Batch ID: <b>35292</b>					Analysis Date: <b>2/9/2022</b>	SeqNo: <b>1494365</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nickel	39.7	0.397	39.68	0	99.9	80	120				
Selenium	4.10	0.159	3.968	0	103	80	120				
Silver	2.10	0.119	1.984	0	106	80	120				
Zinc	37.2	1.39	39.68	0	93.8	80	120				

Sample ID: <b>MB-35312</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>				Prep Date: <b>2/9/2022</b>	RunNo: <b>73174</b>				
Client ID: <b>MBLKS</b>	Batch ID: <b>35312</b>					Analysis Date: <b>2/9/2022</b>	SeqNo: <b>1494537</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.0960									
Barium	ND	0.480									
Cadmium	ND	0.160									
Copper	ND	0.800									
Lead	ND	0.160									
Nickel	ND	0.400									
Selenium	ND	0.160									
Silver	ND	0.120									
Zinc	ND	1.40									

Sample ID: <b>LCS-35312</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>				Prep Date: <b>2/9/2022</b>	RunNo: <b>73174</b>				
Client ID: <b>LCSS</b>	Batch ID: <b>35312</b>					Analysis Date: <b>2/9/2022</b>	SeqNo: <b>1494538</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	38.7	0.0960	40.00	0	96.7	80	120				
Barium	45.4	0.480	40.00	0	113	80	120				
Cadmium	1.99	0.160	2.000	0	99.4	80	120				
Copper	39.5	0.800	40.00	0	98.8	80	120				
Lead	21.1	0.160	20.00	0	106	80	120				
Nickel	39.1	0.400	40.00	0	97.7	80	120				

Work Order: 2201481  
 CLIENT: Summit Scientific  
 Project: 2201228

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 6020B**

Sample ID: <b>LCS-35312</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>				Prep Date: <b>2/9/2022</b>	RunNo: <b>73174</b>				
Client ID: <b>LCSS</b>	Batch ID: <b>35312</b>					Analysis Date: <b>2/9/2022</b>	SeqNo: <b>1494538</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Selenium	4.28	0.160	4.000	0	107	80	120				
Silver	2.13	0.120	2.000	0	107	80	120				
Zinc	37.5	1.40	40.00	0	93.8	80	120				

Sample ID: <b>2202188-001AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>				Prep Date: <b>2/9/2022</b>	RunNo: <b>73174</b>				
Client ID: <b>BATCH</b>	Batch ID: <b>35312</b>					Analysis Date: <b>2/9/2022</b>	SeqNo: <b>1494541</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	56.1	0.134	56.00	3.159	94.6	75	125				
Barium	78.1	0.672	56.00	17.54	108	75	125				
Cadmium	2.90	0.224	2.800	0.03846	102	75	125				
Copper	76.1	1.12	56.00	23.43	94.0	75	125				
Lead	28.3	0.224	28.00	1.095	97.2	75	125				
Nickel	66.4	0.560	56.00	10.78	99.4	75	125				
Selenium	6.13	0.224	5.600	0.4424	102	75	125				
Silver	2.41	0.168	2.800	0	86.2	75	125				
Zinc	104	1.96	56.00	46.54	103	75	125				

Sample ID: <b>2202188-001AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>				Prep Date: <b>2/9/2022</b>	RunNo: <b>73174</b>				
Client ID: <b>BATCH</b>	Batch ID: <b>35312</b>					Analysis Date: <b>2/9/2022</b>	SeqNo: <b>1494542</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	46.3	0.129	53.88	3.159	80.0	75	125	56.13	19.2	20	
Barium	64.7	0.647	53.88	17.54	87.5	75	125	78.06	18.8	20	
Cadmium	2.33	0.216	2.694	0.03846	85.0	75	125	2.901	21.9	20	R
Copper	64.4	1.08	53.88	23.43	76.1	75	125	76.07	16.6	20	
Lead	23.4	0.216	26.94	1.095	82.9	75	125	28.31	18.9	20	
Nickel	55.9	0.539	53.88	10.78	83.7	75	125	66.43	17.2	20	
Selenium	4.67	0.216	5.388	0.4424	78.5	75	125	6.133	27.0	20	R

Work Order: 2201481  
 CLIENT: Summit Scientific  
 Project: 2201228

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 6020B**

Sample ID: <b>220188-001AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>				Prep Date: <b>2/9/2022</b>	RunNo: <b>73174</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>35312</b>					Analysis Date: <b>2/9/2022</b>	SeqNo: <b>1494542</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Silver	1.88	0.162	2.694	0	69.8	75	125	2.415	25.0	20	RS	
Zinc	87.4	1.89	53.88	46.54	75.8	75	125	104.3	17.7	20		

**NOTES:**

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed and recovered within range.  
 R - High RPD observed.

Sample ID: <b>MB-35266</b>	SampType: <b>MBLK</b>	Units: <b>mg/L</b>				Prep Date: <b>2/4/2022</b>	RunNo: <b>73210</b>					
Client ID: <b>MBLKS</b>	Batch ID: <b>35266</b>					Analysis Date: <b>2/10/2022</b>	SeqNo: <b>1495570</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Boron	ND	0.00994										

Sample ID: <b>LCS-35266</b>	SampType: <b>LCS</b>	Units: <b>mg/L</b>				Prep Date: <b>2/4/2022</b>	RunNo: <b>73210</b>					
Client ID: <b>LCSS</b>	Batch ID: <b>35266</b>					Analysis Date: <b>2/10/2022</b>	SeqNo: <b>1495571</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Boron	4.50	0.00998	4.990	0	90.2	80	120					

Sample ID: <b>2201479-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/L</b>				Prep Date: <b>2/4/2022</b>	RunNo: <b>73210</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>35266</b>					Analysis Date: <b>2/10/2022</b>	SeqNo: <b>1495573</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Boron	0.143	0.00983						0.1316	8.08	20		

Sample ID: <b>2201479-001BMS</b>	SampType: <b>MS</b>	Units: <b>mg/L</b>				Prep Date: <b>2/4/2022</b>	RunNo: <b>73210</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>35266</b>					Analysis Date: <b>2/10/2022</b>	SeqNo: <b>1495574</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Boron	0.905	0.00992	4.960	0.1316	15.6	75	125				S	

**Work Order:** 2201481  
**CLIENT:** Summit Scientific  
**Project:** 2201228

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 6020B**

Sample ID: <b>2201479-001BMS</b>	SampType: <b>MS</b>	Units: <b>mg/L</b>	Prep Date: <b>2/4/2022</b>	RunNo: <b>73210</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>35266</b>	Analysis Date: <b>2/10/2022</b>	SeqNo: <b>1495574</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

**NOTES:**

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Sample ID: <b>2201479-001BMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/L</b>	Prep Date: <b>2/4/2022</b>	RunNo: <b>73210</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>35266</b>	Analysis Date: <b>2/10/2022</b>	SeqNo: <b>1495575</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Boron	0.919	0.00995	4.975	0.1316	15.8	75	125	0.9051	1.55	20	S
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**NOTES:**

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Work Order: 2201481  
 CLIENT: Summit Scientific  
 Project: 2201228

**QC SUMMARY REPORT**  
**Sodium Adsorption Ratio**

Sample ID: <b>MB-35565</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>3/2/2022</b>	RunNo: <b>73697</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>35565</b>		Analysis Date: <b>2/18/2022</b>	SeqNo: <b>1507667</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Calcium	ND	1,000									
Magnesium	ND	1,000									
Sodium	ND	500									

Sample ID: <b>LCS-35565</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>3/2/2022</b>	RunNo: <b>73697</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>35565</b>		Analysis Date: <b>2/18/2022</b>	SeqNo: <b>1507668</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Calcium	5,090	1,000	5,000	0	102	50	150				
Magnesium	4,700	1,000	5,000	0	94.0	50	150				
Sodium	5,010	500	5,000	0	100	50	150				

Sample ID: <b>2201479-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>mEq/L</b>	Prep Date: <b>3/2/2022</b>	RunNo: <b>73697</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>35565</b>		Analysis Date: <b>2/18/2022</b>	SeqNo: <b>1508678</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sodium Adsorption Ratio (SAR)	0.0546	0						0.04990	9.00	30	
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Client Name: <b>SUMSCI</b>	Work Order Number: <b>2201481</b>
Logged by: <b>Clare Griggs</b>	Date Received: <b>1/28/2022 11:11:00 AM</b>

**Chain of Custody**

1. Is Chain of Custody complete?      Yes       No       Not Present
2. How was the sample delivered?      FedEx

**Log In**

3. Coolers are present?      Yes       No       NA
4. Shipping container/cooler in good condition?      Yes       No
5. Custody Seals present on shipping container/cooler?  
(Refer to comments for Custody Seals not intact)      Yes       No       Not Present
6. Was an attempt made to cool the samples?      Yes       No       NA
- Unknown prior to receipt.**
7. Were all items received at a temperature of >2°C to 6°C \*      Yes       No       NA
8. Sample(s) in proper container(s)?      Yes       No
9. Sufficient sample volume for indicated test(s)?      Yes       No
10. Are samples properly preserved?      Yes       No
11. Was preservative added to bottles?      Yes       No       NA
12. Is there headspace in the VOA vials?      Yes       No       NA
13. Did all samples containers arrive in good condition(unbroken)?      Yes       No
14. Does paperwork match bottle labels?      Yes       No
15. Are matrices correctly identified on Chain of Custody?      Yes       No
16. Is it clear what analyses were requested?      Yes       No
17. Were all holding times able to be met?      Yes       No

**Special Handling (if applicable)**

18. Was client notified of all discrepancies with this order?      Yes       No       NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

**Item Information**

Item #	Temp °C
Sample	7.8

\* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



**Fremont**  
ANALYTICAL

3600 Fremont Ave. N.  
Seattle, WA 98103  
Tel: 206-352-3790  
Fax: 206-352-7178

**Chain of Custody Record & Laboratory Services Agreement**

Date: 1.25.22 Page: 1 of 1  
Project Name: 2201228

Laboratory Project No (Internal): 2201481  
Special Remarks:

Client: Summit Scientific

Address: 4653 Table Mountain Drive

City, State, Zip: Golden, CO. 80403

Telephone: 303-277-9310

Fax: Report To (PM): mpremer@s2scientific.com, pshrewsbury@s2scientific.com

Sample Disposal:  Return to client  Disposal by lab (after 30 days)

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Comments
1 BH-1081	1-20-22	1110	S	X X X
2 BH-2081		1115	S	
3 BH-3021		1120	S	
4 SW-1051		1125	S	
5 SW-2051		1135	S	
6 SW-3051		1145	S	
7 SW-4051		1155	S	
8 SW-5021		1205	S	
9 SW-6011		1215	S	
10 SW-7021		1225	S	

\*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, S<sub>2</sub> = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

\*\*Metals (Circle):  Nitrate  Nitrite  Chloride  Sulfate  Bromide  O-Phosphate  Fluoride  Nitrate-Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished: [Signature] Date/Time: 1.25.22 1600  
Received: [Signature] Date/Time: 1/28/2022 1115

Turn-around Time:  
 Standard  
 2 Day  
 3 Day  
 Next Day  
 Same Day (specify)



Marcom LLC  
1811 East Mulberry St.  
Fort Collins CO, 80524

Project: KPK - RMF Site Confirmation Samples

Project Number: [none]  
Project Manager: Jennifer Galles

**Reported:**  
03/04/22 11:04

### Notes and Definitions

- 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.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- 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