

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 28, 2022

Levi Kirk

K.P. Kauffman

1675 Broadway

Denver, CO 80202

RE: George Norden

Work Order #2207294

Enclosed are the results of analyses for samples received by Summit Scientific on 07/21/22 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Paul Shrewsbury

President



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: George Norden

Project Number: [none]
Project Manager: Levi Kirk

Reported:
07/28/22 13:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DS-1@7'	2207294-01	Soil	07/21/22 12:15	07/21/22 16:00
DS-2@7'	2207294-02	Soil	07/21/22 12:20	07/21/22 16:00
DS-3@7'	2207294-03	Soil	07/21/22 12:25	07/21/22 16:00
DS-4@7'	2207294-04	Soil	07/21/22 12:30	07/21/22 16:00
Source #1	2207294-05	Soil	07/21/22 09:35	07/21/22 16:00

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Summit Scientific

2207294

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Page 1 of 1

Client: K.P. Kaufman

Project Manager: Levi Kirk

Address: 1675 Broadway
City/State/Zip: Denver, CO 80202

E-Mail: Primarycontractor@marconllc.net

Phone: 303-825-4822

Project Name: George Norden

Sampler Name: HEP BW

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Full Table Q15 sweep								
1	DS-1 @ 7'	7-21-22	1215	3			X			X			X								
2	DS-2 @ 7'		1220	X																	
3	DS-3 @ 7'		1225																		
4	DS-4 @ 7'		1230																		
5	Source #1	0935	0935	2																	
6																					
7																					
8																					
9																					
10																					

Relinquished by: <u>H. Kaufman</u>	Date/Time: <u>7-21-22 1315</u>	Received by: <u>[Signature]</u>	Date/Time: <u>7-21-22 1600</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input type="checkbox"/> 72 hours 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/>	
Temperature Upon Receipt: <u>7.0</u>	Corrected Temperature <u>7.0</u>	HNO3 lot #	Sample Integrity:		
IR gun correction: <u>0</u>	IR gun #: <u>1</u>		Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No		

S₂

Sample Receipt Checklist

S2 Work Order# 2207294

Client: Ke KauffmanClient Project ID: George Norden

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other _____ Airbill #: _____

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Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 7.0 Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6 °C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	-			an zcc
Were all samples received intact ⁽¹⁾ ?	-			
Was adequate sample volume provided ⁽¹⁾ ?	-			
If custody seals are present, are they intact ⁽¹⁾ ?	-			
Are samples due within 48 hours present?		-		
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen			-	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	-			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	-			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	-			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	-			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			-	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.			-	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			-	
If dissolved metals are requested, were samples field filtered?			-	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.


 Custodian Printed Name

7/21/22
 Date/Time



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: George Norden
Project Number: [none]
Project Manager: Levi Kirk

Reported:
07/28/22 13:26

DS-1@7'
2207294-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/21/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFG0415	07/22/22	07/22/22	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: **07/21/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0401	100 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0411	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/21/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFG0418	07/22/22	07/23/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/21/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.0	112 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Manager: Levi Kirk

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DS-1@7'
2207294-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **07/21/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFG0413	07/22/22	07/24/22	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: **07/21/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0320	95.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0356	107 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/21/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0968	0.0100	mg/L	1	BFG0419	07/22/22	07/22/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/21/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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DS-1@7'
2207294-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	ND	0.204	mg/kg dry	1	BFG0428	07/22/22	07/22/22	EPA 6020B
Barium	31.1	0.408	"	"	"	"	"	"
Cadmium	ND	0.204	"	"	"	"	"	"
Copper	1.98	0.408	"	"	"	"	"	"
Lead	2.65	0.204	"	"	"	"	"	"
Nickel	1.76	0.408	"	"	"	"	"	"
Selenium	0.640	0.265	"	"	"	"	"	"
Silver	ND	0.0204	"	"	"	"	"	"
Zinc	13.1	0.408	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/21/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFG0421	07/22/22	07/22/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **07/21/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	23.7	0.0510	mg/L dry	1	BFG0443	07/25/22	07/26/22	EPA 6020B	
Magnesium	9.02	0.0510	"	"	"	"	"	"	
Sodium	56.9	0.0510	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/21/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.50	0.00100	units	1	BFG0496	07/27/22	07/27/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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DS-1@7'
2207294-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/21/22 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	98.1			%	1	BFG0493	07/27/22	07/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/21/22 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.581	0.0100		mmhos/cm	1	BFG0475	07/26/22	07/26/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **07/21/22 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.73			pH Units	1	BFG0474	07/26/22	07/26/22	EPA 9045D	

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Project Manager: Levi Kirk

Reported:
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DS-2@7'
2207294-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/21/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFG0415	07/22/22	07/22/22	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: **07/21/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0418	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0409	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/21/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFG0418	07/22/22	07/23/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/21/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.0	112 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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DS-2@7'
2207294-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **07/21/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFG0413	07/22/22	07/24/22	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: **07/21/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0289	86.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0322	96.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/21/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.138	0.0100	mg/L	1	BFG0419	07/22/22	07/22/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/21/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: George Norden
Project Number: [none]
Project Manager: Levi Kirk

Reported:
07/28/22 13:26

DS-2@7'
2207294-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.321	0.202	mg/kg dry	1	BFG0428	07/22/22	07/22/22	EPA 6020B
Barium	34.6	0.404	"	"	"	"	"	"
Cadmium	ND	0.202	"	"	"	"	"	"
Copper	2.01	0.404	"	"	"	"	"	"
Lead	2.34	0.202	"	"	"	"	"	"
Nickel	1.86	0.404	"	"	"	"	"	"
Selenium	0.573	0.262	"	"	"	"	"	"
Silver	ND	0.0202	"	"	"	"	"	"
Zinc	13.4	0.404	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/21/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFG0421	07/22/22	07/22/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **07/21/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	19.8	0.0505	mg/L dry	1	BFG0443	07/25/22	07/26/22	EPA 6020B	
Magnesium	8.04	0.0505	"	"	"	"	"	"	
Sodium	55.7	0.0505	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/21/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.66	0.00100	units	1	BFG0496	07/27/22	07/27/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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DS-2@7'
2207294-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/21/22 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	99.1			%	1	BFG0493	07/27/22	07/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/21/22 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.570	0.0100		mmhos/cm	1	BFG0475	07/26/22	07/26/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **07/21/22 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.58			pH Units	1	BFG0474	07/26/22	07/26/22	EPA 9045D	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: George Norden
Project Number: [none]
Project Manager: Levi Kirk

Reported:
07/28/22 13:26

DS-3@7'
2207294-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/21/22 12:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFG0415	07/22/22	07/22/22	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: **07/21/22 12:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0425	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0413	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/21/22 12:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFG0418	07/22/22	07/23/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/21/22 12:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	14.3	114 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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K.P. Kauffman
1675 Broadway
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Project: George Norden
Project Number: [none]
Project Manager: Levi Kirk

Reported:
07/28/22 13:26

DS-3@7'
2207294-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **07/21/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFG0413	07/22/22	07/24/22	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: **07/21/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0324	97.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0355	106 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/21/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0645	0.0100	mg/L	1	BFG0419	07/22/22	07/22/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/21/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: George Norden
Project Number: [none]
Project Manager: Levi Kirk

Reported:
07/28/22 13:26

DS-3@7'
2207294-03 (Soil)

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Total Metals by EPA 6020B

Arsenic	ND	0.202	mg/kg dry	1	BFG0428	07/22/22	07/22/22	EPA 6020B
Barium	35.3	0.405	"	"	"	"	"	"
Cadmium	ND	0.202	"	"	"	"	"	"
Copper	0.882	0.405	"	"	"	"	"	"
Lead	1.77	0.202	"	"	"	"	"	"
Nickel	0.759	0.405	"	"	"	"	"	"
Selenium	0.368	0.263	"	"	"	"	"	"
Silver	ND	0.0202	"	"	"	"	"	"
Zinc	7.09	0.405	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/21/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFG0421	07/22/22	07/22/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **07/21/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	9.43	0.0506	mg/L dry	1	BFG0443	07/25/22	07/26/22	EPA 6020B	
Magnesium	3.96	0.0506	"	"	"	"	"	"	
Sodium	35.4	0.0506	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/21/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.43	0.00100	units	1	BFG0496	07/27/22	07/27/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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07/28/22 13:26

DS-3@7'
2207294-03 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/21/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.8		%	1	BFG0493	07/27/22	07/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/21/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.358	0.0100	mmhos/cm	1	BFG0475	07/26/22	07/26/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **07/21/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.41		pH Units	1	BFG0474	07/26/22	07/26/22	EPA 9045D	

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1675 Broadway
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Project: George Norden
Project Number: [none]
Project Manager: Levi Kirk

Reported:
07/28/22 13:26

DS-4@7'
2207294-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/21/22 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFG0415	07/22/22	07/22/22	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: **07/21/22 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0398	99.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0427	107 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/21/22 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFG0418	07/22/22	07/23/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/21/22 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	13.9	111 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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1675 Broadway
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Project: George Norden
Project Number: [none]
Project Manager: Levi Kirk

Reported:
07/28/22 13:26

DS-4@7'
2207294-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **07/21/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFG0413	07/22/22	07/24/22	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: **07/21/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0368	110 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0367	110 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/21/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0649	0.0100	mg/L	1	BFG0419	07/22/22	07/22/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/21/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Manager: Levi Kirk

Reported:
07/28/22 13:26

DS-4@7'
2207294-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	ND	0.233	mg/kg dry	1	BFG0428	07/22/22	07/22/22	EPA 6020B
Barium	25.7	0.467	"	"	"	"	"	"
Cadmium	ND	0.233	"	"	"	"	"	"
Copper	1.36	0.467	"	"	"	"	"	"
Lead	2.19	0.233	"	"	"	"	"	"
Nickel	1.00	0.467	"	"	"	"	"	"
Selenium	0.414	0.304	"	"	"	"	"	"
Silver	ND	0.0233	"	"	"	"	"	"
Zinc	9.47	0.467	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/21/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFG0421	07/22/22	07/22/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **07/21/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	11.0	0.0584	mg/L dry	1	BFG0443	07/25/22	07/26/22	EPA 6020B	
Magnesium	5.30	0.0584	"	"	"	"	"	"	
Sodium	28.5	0.0584	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/21/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.64	0.00100	units	1	BFG0496	07/27/22	07/27/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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K.P. Kauffman
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Project: George Norden
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Project Manager: Levi Kirk

Reported:
07/28/22 13:26

DS-4@7'
2207294-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/21/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.7		%	1	BFG0493	07/27/22	07/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/21/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.295	0.0100	mmhos/cm	1	BFG0475	07/26/22	07/26/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **07/21/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.24		pH Units	1	BFG0474	07/26/22	07/26/22	EPA 9045D	

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1675 Broadway
Denver CO, 80202

Project: George Norden
Project Number: [none]
Project Manager: Levi Kirk

Reported:
07/28/22 13:26

Source #1
2207294-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/21/22 09:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFG0415	07/22/22	07/22/22	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: **07/21/22 09:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0449	112 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0415	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0425	106 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/21/22 09:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	280	50	mg/kg	1	BFG0418	07/22/22	07/23/22	EPA 8015M	
C28-C36 (ORO)	71	50	"	"	"	"	"	"	

Date Sampled: **07/21/22 09:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	14.7	118 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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1675 Broadway
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Project: George Norden
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Reported:
07/28/22 13:26

Source #1
2207294-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **07/21/22 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFG0413	07/22/22	07/24/22	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	0.0185	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	0.0120	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **07/21/22 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0233	70.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0339	102 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/21/22 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	1.18	0.0100	mg/L	1	BFG0419	07/22/22	07/22/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/21/22 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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1675 Broadway
Denver CO, 80202

Project: George Norden
Project Number: [none]
Project Manager: Levi Kirk

Reported:
07/28/22 13:26

Source #1
2207294-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.29	0.232	mg/kg dry	1	BFG0428	07/22/22	07/22/22	EPA 6020B
Barium	108	0.464	"	"	"	"	"	"
Cadmium	0.314	0.232	"	"	"	"	"	"
Copper	22.5	0.464	"	"	"	"	"	"
Lead	37.6	0.232	"	"	"	"	"	"
Nickel	10.2	0.464	"	"	"	"	"	"
Selenium	1.54	0.302	"	"	"	"	"	"
Silver	0.268	0.0232	"	"	"	"	"	"
Zinc	74.7	0.464	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/21/22 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFG0421	07/22/22	07/22/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **07/21/22 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	200	0.0580	mg/L dry	1	BFG0443	07/25/22	07/26/22	EPA 6020B	
Magnesium	71.0	0.0580	"	"	"	"	"	"	
Sodium	731	0.0580	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/21/22 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	10.5	0.00100	units	1	BFG0496	07/27/22	07/27/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/21/22 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: George Norden
Project Number: [none]
Project Manager: Levi Kirk

Reported:
07/28/22 13:26

Source #1
2207294-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	86.2	%	1	BFG0493	07/27/22	07/27/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/21/22 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.63	0.0100	mmhos/cm	1	BFG0475	07/26/22	07/26/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **07/21/22 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.02		pH Units	1	BFG0474	07/26/22	07/26/22	EPA 9045D	

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1675 Broadway
Denver CO, 80202

Project: George Norden
Project Number: [none]
Project Manager: Levi Kirk

Reported:
07/28/22 13:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFG0415 - EPA 5030 Soil MS

Blank (BFG0415-BLK1)

Prepared & Analyzed: 07/22/22

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	"							
Surrogate: 1,2-Dichloroethane-d4	0.0350		"	0.0400		87.4	50-150			
Surrogate: Toluene-d8	0.0393		"	0.0400		98.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	50-150			

LCS (BFG0415-BS1)

Prepared & Analyzed: 07/22/22

Benzene	0.0638	0.0020	mg/kg	0.0750		85.0	70-130			
Toluene	0.0664	0.0050	"	0.0750		88.5	70-130			
Ethylbenzene	0.0698	0.0050	"	0.0750		93.1	70-130			
m,p-Xylene	0.135	0.010	"	0.150		90.0	70-130			
o-Xylene	0.0655	0.0050	"	0.0750		87.4	70-130			
1,2,4-Trimethylbenzene	0.0710	0.0050	"	0.0750		94.6	70-130			
1,3,5-Trimethylbenzene	0.0696	0.0050	"	0.0750		92.8	70-130			
Naphthalene	0.0879	0.0038	"	0.0750		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0235		"	0.0400		58.7	50-150			
Surrogate: Toluene-d8	0.0388		"	0.0400		97.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0367		"	0.0400		91.6	50-150			

Matrix Spike (BFG0415-MS1)

Source: 2207283-05

Prepared & Analyzed: 07/22/22

Benzene	0.0597	0.0020	mg/kg	0.0750	ND	79.6	70-130			
Toluene	0.0692	0.0050	"	0.0750	ND	92.2	70-130			
Ethylbenzene	0.0761	0.0050	"	0.0750	ND	101	70-130			
m,p-Xylene	0.155	0.010	"	0.150	ND	103	70-130			
o-Xylene	0.0732	0.0050	"	0.0750	ND	97.6	70-130			
1,2,4-Trimethylbenzene	0.0842	0.0050	"	0.0750	ND	112	70-130			
1,3,5-Trimethylbenzene	0.0825	0.0050	"	0.0750	ND	110	70-130			
Naphthalene	0.0725	0.0038	"	0.0750	ND	96.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0302		"	0.0400		75.4	50-150			
Surrogate: Toluene-d8	0.0403		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0385		"	0.0400		96.2	50-150			

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: George Norden
Project Number: [none]
Project Manager: Levi Kirk

Reported:
07/28/22 13:26

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

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

Batch BFG0415 - EPA 5030 Soil MS

Matrix Spike Dup (BFG0415-MSD1)	Source: 2207283-05			Prepared & Analyzed: 07/22/22						
Benzene	0.0622	0.0020	mg/kg	0.0750	ND	82.9	70-130	4.14	30	
Toluene	0.0724	0.0050	"	0.0750	ND	96.6	70-130	4.58	30	
Ethylbenzene	0.0774	0.0050	"	0.0750	ND	103	70-130	1.64	30	
m,p-Xylene	0.153	0.010	"	0.150	ND	102	70-130	1.56	30	
o-Xylene	0.0741	0.0050	"	0.0750	ND	98.8	70-130	1.22	30	
1,2,4-Trimethylbenzene	0.0848	0.0050	"	0.0750	ND	113	70-130	0.781	30	
1,3,5-Trimethylbenzene	0.0827	0.0050	"	0.0750	ND	110	70-130	0.290	30	
Naphthalene	0.0701	0.0038	"	0.0750	ND	93.5	70-130	3.32	30	
Surrogate: 1,2-Dichloroethane-d4	0.0319		"	0.0400		79.7	50-150			
Surrogate: Toluene-d8	0.0407		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0374		"	0.0400		93.6	50-150			

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: George Norden
Project Number: [none]
Project Manager: Levi Kirk

Reported:
07/28/22 13:26

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFG0418 - EPA 3550A

Blank (BFG0418-BLK1)

Prepared & Analyzed: 07/22/22

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

LCS (BFG0418-BS1)

Prepared & Analyzed: 07/22/22

C10-C28 (DRO)	441	50	mg/kg	500	88.3	70-130
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Matrix Spike (BFG0418-MS1)

Source: 2207283-04

Prepared & Analyzed: 07/22/22

C10-C28 (DRO)	433	50	mg/kg	500	11.5	84.4	70-130
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Matrix Spike Dup (BFG0418-MSD1)

Source: 2207283-04

Prepared & Analyzed: 07/22/22

C10-C28 (DRO)	459	50	mg/kg	500	11.5	89.6	70-130	5.84	20
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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: George Norden
Project Number: [none]
Project Manager: Levi Kirk

Reported:
07/28/22 13:26

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFG0413 - EPA 5030 Soil MS

Blank (BFG0413-BLK1)

Prepared: 07/22/22 Analyzed: 07/24/22

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	"							
Surrogate: 2-Methylnaphthalene-d10	0.0324		"	0.0333		97.1	40-150			
Surrogate: Fluoranthene-d10	0.0342		"	0.0333		103	40-150			

LCS (BFG0413-BS1)

Prepared: 07/22/22 Analyzed: 07/24/22

Acenaphthene	0.0379	0.00500	mg/kg	0.0333	114	31-137
Anthracene	0.0316	0.00500	"	0.0333	94.9	30-120
Benzo (a) anthracene	0.0398	0.00500	"	0.0333	119	30-120
Benzo (a) pyrene	0.0387	0.00500	"	0.0333	116	30-120
Benzo (b) fluoranthene	0.0375	0.00500	"	0.0333	112	30-120
Benzo (k) fluoranthene	0.0291	0.00500	"	0.0333	87.3	30-120
Chrysene	0.0370	0.00500	"	0.0333	111	30-120
Dibenz (a,h) anthracene	0.0273	0.00500	"	0.0333	81.9	30-120
Fluoranthene	0.0389	0.00500	"	0.0333	117	30-120
Fluorene	0.0342	0.00500	"	0.0333	103	30-120
Indeno (1,2,3-cd) pyrene	0.0230	0.00500	"	0.0333	68.9	30-120
Pyrene	0.0344	0.00500	"	0.0333	103	35-142
1-Methylnaphthalene	0.0268	0.00500	"	0.0333	80.5	35-142
2-Methylnaphthalene	0.0396	0.00500	"	0.0333	119	35-142
Surrogate: 2-Methylnaphthalene-d10	0.0297		"	0.0333	89.2	40-150
Surrogate: Fluoranthene-d10	0.0319		"	0.0333	95.7	40-150

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: George Norden
Project Number: [none]
Project Manager: Levi Kirk

Reported:
07/28/22 13:26

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFG0413 - EPA 5030 Soil MS

Matrix Spike (BFG0413-MS1)

Source: 2207294-01

Prepared: 07/22/22 Analyzed: 07/24/22

Acenaphthene	0.0171	0.00500	mg/kg	0.0333	ND	51.3	31-137		
Anthracene	0.0270	0.00500	"	0.0333	ND	81.1	30-120		
Benzo (a) anthracene	0.0242	0.00500	"	0.0333	ND	72.6	30-120		
Benzo (a) pyrene	0.0239	0.00500	"	0.0333	ND	71.7	30-120		
Benzo (b) fluoranthene	0.0294	0.00500	"	0.0333	ND	88.3	30-120		
Benzo (k) fluoranthene	0.0368	0.00500	"	0.0333	ND	110	30-120		
Chrysene	0.0272	0.00500	"	0.0333	ND	81.7	30-120		
Dibenz (a,h) anthracene	0.0138	0.00500	"	0.0333	ND	41.5	30-120		
Fluoranthene	0.0310	0.00500	"	0.0333	ND	93.1	30-120		
Fluorene	0.0176	0.00500	"	0.0333	ND	52.7	30-120		
Indeno (1,2,3-cd) pyrene	0.0122	0.00500	"	0.0333	ND	36.6	30-120		
Pyrene	0.0308	0.00500	"	0.0333	ND	92.4	35-142		
1-Methylnaphthalene	0.0242	0.00500	"	0.0333	ND	72.7	15-130		
2-Methylnaphthalene	0.0195	0.00500	"	0.0333	ND	58.4	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0198		"	0.0333		59.5	40-150		
Surrogate: Fluoranthene-d10	0.0248		"	0.0333		74.4	40-150		

Matrix Spike Dup (BFG0413-MSD1)

Source: 2207294-01

Prepared: 07/22/22 Analyzed: 07/24/22

Acenaphthene	0.0167	0.00500	mg/kg	0.0333	ND	50.1	31-137	2.41	30
Anthracene	0.0245	0.00500	"	0.0333	ND	73.4	30-120	9.93	30
Benzo (a) anthracene	0.0229	0.00500	"	0.0333	ND	68.8	30-120	5.49	30
Benzo (a) pyrene	0.0226	0.00500	"	0.0333	ND	67.8	30-120	5.59	30
Benzo (b) fluoranthene	0.0270	0.00500	"	0.0333	ND	81.1	30-120	8.59	30
Benzo (k) fluoranthene	0.0340	0.00500	"	0.0333	ND	102	30-120	8.06	30
Chrysene	0.0255	0.00500	"	0.0333	ND	76.6	30-120	6.33	30
Dibenz (a,h) anthracene	0.0134	0.00500	"	0.0333	ND	40.0	30-120	3.65	30
Fluoranthene	0.0281	0.00500	"	0.0333	ND	84.3	30-120	9.94	30
Fluorene	0.0160	0.00500	"	0.0333	ND	47.9	30-120	9.48	30
Indeno (1,2,3-cd) pyrene	0.0116	0.00500	"	0.0333	ND	34.7	30-120	5.14	30
Pyrene	0.0272	0.00500	"	0.0333	ND	81.7	35-142	12.2	30
1-Methylnaphthalene	0.0231	0.00500	"	0.0333	ND	69.2	15-130	5.03	50
2-Methylnaphthalene	0.0180	0.00500	"	0.0333	ND	53.9	15-130	8.02	50
Surrogate: 2-Methylnaphthalene-d10	0.0182		"	0.0333		54.7	40-150		
Surrogate: Fluoranthene-d10	0.0234		"	0.0333		70.1	40-150		

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: George Norden
Project Number: [none]
Project Manager: Levi Kirk

Reported:
07/28/22 13:26

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

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

Batch BFG0419 - EPA 3050B

Blank (BFG0419-BLK1)

Prepared & Analyzed: 07/22/22

Boron ND 0.0100 mg/L

LCS (BFG0419-BS1)

Prepared & Analyzed: 07/22/22

Boron 4.73 0.0100 mg/L 5.00 94.5 80-120

Duplicate (BFG0419-DUP1)

Source: 2207294-01

Prepared & Analyzed: 07/22/22

Boron 0.0939 0.0100 mg/L 0.0968 3.04 20

Matrix Spike (BFG0419-MS1)

Source: 2207294-01

Prepared & Analyzed: 07/22/22

Boron 5.62 0.0100 mg/L 5.00 0.0968 110 75-125

Matrix Spike Dup (BFG0419-MSD1)

Source: 2207294-01

Prepared & Analyzed: 07/22/22

Boron 5.82 0.0100 mg/L 5.00 0.0968 115 75-125 3.61 25

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: George Norden
Project Number: [none]
Project Manager: Levi Kirk

Reported:
07/28/22 13:26

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFG0428 - EPA 3050B

Blank (BFG0428-BLK1)

Prepared & Analyzed: 07/22/22

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BFG0428-BS1)

Prepared & Analyzed: 07/22/22

Arsenic	40.2	0.200	mg/kg wet	40.0	101	80-120
Barium	40.1	0.400	"	40.0	100	80-120
Cadmium	2.15	0.200	"	2.00	108	80-120
Copper	36.4	0.400	"	40.0	91.1	80-120
Lead	20.1	0.200	"	20.0	101	80-120
Nickel	35.2	0.400	"	40.0	88.0	80-120
Selenium	4.05	0.260	"	4.00	101	80-120
Silver	2.01	0.0200	"	2.00	101	80-120
Zinc	41.8	0.400	"	40.0	104	80-120

Duplicate (BFG0428-DUP1)

Source: 2207294-01

Prepared & Analyzed: 07/22/22

Arsenic	0.174	0.204	mg/kg dry	0.197	12.7	20
Barium	30.9	0.408	"	31.1	0.395	20
Cadmium	0.0353	0.204	"	0.0334	5.34	20
Copper	2.08	0.408	"	1.98	5.00	20
Lead	2.69	0.204	"	2.65	1.61	20
Nickel	1.86	0.408	"	1.76	5.72	20
Selenium	0.679	0.265	"	0.640	5.87	20
Silver	0.0182	0.0204	"	0.0172	5.66	20
Zinc	13.6	0.408	"	13.1	3.38	20

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: George Norden
Project Number: [none]
Project Manager: Levi Kirk

Reported:
07/28/22 13:26

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFG0428 - EPA 3050B

Matrix Spike (BFG0428-MS1)		Source: 2207294-01			Prepared & Analyzed: 07/22/22					
Arsenic	38.4	0.204	mg/kg dry	40.8	0.197	93.8	75-125			
Barium	63.6	0.408	"	40.8	31.1	79.7	75-125			
Cadmium	2.12	0.204	"	2.04	0.0334	102	75-125			
Copper	38.2	0.408	"	40.8	1.98	88.8	75-125			
Lead	20.2	0.204	"	20.4	2.65	86.0	75-125			
Nickel	36.2	0.408	"	40.8	1.76	84.5	75-125			
Selenium	4.07	0.265	"	4.08	0.640	84.0	75-125			
Silver	1.94	0.0204	"	2.04	0.0172	94.4	75-125			
Zinc	51.9	0.408	"	40.8	13.1	95.0	75-125			

Matrix Spike Dup (BFG0428-MSD1)		Source: 2207294-01			Prepared & Analyzed: 07/22/22					
Arsenic	39.4	0.204	mg/kg dry	40.8	0.197	96.1	75-125	2.48	25	
Barium	65.3	0.408	"	40.8	31.1	83.9	75-125	2.63	25	
Cadmium	2.17	0.204	"	2.04	0.0334	105	75-125	2.49	25	
Copper	39.3	0.408	"	40.8	1.98	91.5	75-125	2.85	25	
Lead	20.9	0.204	"	20.4	2.65	89.7	75-125	3.67	25	
Nickel	37.3	0.408	"	40.8	1.76	87.3	75-125	3.15	25	
Selenium	4.16	0.265	"	4.08	0.640	86.4	75-125	2.34	25	
Silver	2.00	0.0204	"	2.04	0.0172	97.5	75-125	3.22	25	
Zinc	53.5	0.408	"	40.8	13.1	99.1	75-125	3.16	25	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: George Norden
Project Number: [none]
Project Manager: Levi Kirk

Reported:
07/28/22 13:26

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFG0421 - 3060A Mod

Blank (BFG0421-BLK1)

Prepared & Analyzed: 07/22/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFG0421-BS1)

Prepared & Analyzed: 07/22/22

Chromium, Hexavalent 26.4 0.30 mg/kg wet 25.0 105 80-120

Duplicate (BFG0421-DUP1)

Source: 2207294-01

Prepared & Analyzed: 07/22/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFG0421-MS1)

Source: 2207294-01

Prepared & Analyzed: 07/22/22

Chromium, Hexavalent 25.0 0.30 mg/kg dry 25.5 ND 98.2 75-125

Matrix Spike Dup (BFG0421-MSD1)

Source: 2207294-01

Prepared & Analyzed: 07/22/22

Chromium, Hexavalent 22.7 0.30 mg/kg dry 25.5 ND 89.2 75-125 9.61 20

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: George Norden

Project Number: [none]
Project Manager: Levi Kirk

Reported:
07/28/22 13:26

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BFG0443 - General Preparation

Blank (BFG0443-BLK1)

Prepared: 07/25/22 Analyzed: 07/26/22

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

LCS (BFG0443-BS1)

Prepared: 07/25/22 Analyzed: 07/26/22

Calcium	5.51	0.0500	mg/L wet	5.00	110	70-130
Magnesium	5.45	0.0500	"	5.00	109	70-130
Sodium	5.28	0.0500	"	5.00	106	70-130

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: George Norden

Project Number: [none]
Project Manager: Levi Kirk

Reported:
07/28/22 13:26

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

Summit Scientific

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

Batch BFG0493 - General Preparation

Duplicate (BFG0493-DUP1)		Source: 2207211-08			Prepared & Analyzed: 07/27/22					
% Solids	88.3		%		88.0		0.352		20	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: George Norden
Project Number: [none]
Project Manager: Levi Kirk

Reported:
07/28/22 13:26

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BFG0475 - General Preparation

Blank (BFG0475-BLK1)

Prepared & Analyzed: 07/26/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFG0475-BS1)

Prepared & Analyzed: 07/26/22

Specific Conductance (EC) 0.147 0.0100 mmhos/cm 0.150 98.0 95-105

Duplicate (BFG0475-DUP1)

Source: 2207292-01

Prepared & Analyzed: 07/26/22

Specific Conductance (EC) 0.706 0.0100 mmhos/cm 0.713 1.03 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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: George Norden

Project Number: [none]
Project Manager: Levi Kirk

Reported:
07/28/22 13:26

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BFG0474 - General Preparation

LCS (BFG0474-BS1)

Prepared & Analyzed: 07/26/22

pH	9.15	pH Units	9.18	99.7	95-105
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Duplicate (BFG0474-DUP1)

Source: 2207292-01

Prepared & Analyzed: 07/26/22

pH	6.42	pH Units	6.38	0.625	20
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Summit Scientific

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Notes and Definitions

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