

**WHITING PETROLEUM CORPORATION – RAZOR 25B PAD, WELD COUNTY, CO  
PRODUCED WATER RELEASE – APRIL 26, 2020  
CONFIRMATION SOIL SAMPLE RESULTS**

On April 26, 2020, a produced water release occurred at the Whiting Petroleum Corporation (Whiting) Razor 25B oil and gas production facility located in Weld County, Colorado. On April 27, 2020, Kleinfelder, Inc. (Kleinfelder) was requested by Whiting to support soil sampling activities at the Razor 25B release area in order to evaluate soil conditions with Colorado Oil and Gas Conservation Commission (COGCC) 900 Series Cleanup Standards. Whiting coordinated the excavations and removal of contaminated soil through a third-party contractor and the contaminated soil was disposed of at the Pawnee Waste LLC facility located in Grover, Colorado. A summary of sampling activities performed by Kleinfelder at the Razor 25B release area is provided below.

**SOIL SAMPLING**

*April 28, 2020*

Confirmation and background soil sampling activities began at the Razor 25B produced water release area on April 28, 2020, which were performed by Jordan Veith of Kleinfelder. Prior to soil sampling activities, Whiting had removed contaminated soil. Per direction of Whiting and in conformance with Kleinfelder's soil sampling protocol, one background soil sample was collected west of the produced water spill area and three confirmation soil samples were collected in areas that visually appeared to be uncontaminated native soil within the produced water release excavation area. The confirmation soil samples were sent to Origins Laboratory, Inc. (Origins) and analyzed for Sodium Absorption Ratio (SAR), pH, Specific Conductance (EC), and metals (calcium, magnesium, sodium). Analytical results indicated the confirmation soil samples concentrations were below the COGCC cleanup standards for pH, SAR, and EC. Analytical results for these soil samples are presented in **Table 1** and soil sampling locations are presented in **Figure 1**. The analytical report is provided in **Appendix A**. Soil removal activities were ongoing in other sections of the release area and therefore, additional confirmation soil sampling activities were scheduled for May 4, 2020.

*May 4, 2020*

Additional soil removal activities were performed by Whiting at the Razor 25B release area and Jordan Veith of Kleinfelder resumed confirmation soil sampling activities on May 4, 2020. Twenty-five soil samples were collected within the produced water release excavation area, which were sent to Summit Scientific and analyzed for SAR, pH, EC, and metals analyses. Analytical results indicated that thirteen confirmation soil samples were above the COGCC cleanup standards for either SAR, EC, or pH. Analytical results for these soil samples are presented in **Table 2** and soil sampling locations are presented in **Figure 1**. The analytical report is provided in **Appendix B**. Based on the results, additional soil removal activities in the areas of the thirteen exceedances and confirmation soil sampling activities were required.

*May 11, 2020*

Additional soil removal activities were performed in areas of EC, SAR, and pH exceedances indicated by samples collected on May 4, 2020. Jordan Veith and Jared Brantley of Kleinfelder resumed confirmation soil sampling activities on May 11, 2020. Forty-nine soil samples were collected in a grid pattern approximately 40 feet apart within the produced water release excavation area, which were sent to Summit Scientific and analyzed for SAR, pH, EC, and metals analyses. Analytical results indicated that twenty confirmation soil samples were above the COGCC cleanup standards for pH and EC. Therefore, additional soil removal activities in the areas of pH and EC exceedances and confirmation soil sampling activities were required in the areas of pH and EC exceedances.

Additionally, all forty-nine soil samples collected on May 11, 2020 were analyzed for total volatile and extractable petroleum hydrocarbons (TPH) and Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX). Analytical results indicated concentrations were below laboratory reporting limit and/or below COGCC cleanup standards for these parameters. Analytical results for these soil samples are presented in **Table 3** and soil sampling locations are presented in **Figure 1**. The analytical report is provided in **Appendix C**.

*June 3, 2020*

Additional soil removal activities were performed in areas of pH and EC exceedances indicated by samples collected on May 11, 2020. Jordan Veith of Kleinfelder resumed confirmation soil sampling activities on June 3, 2020. Twenty soil samples were collected in areas of pH and EC exceedances on June 3, 2020, which were sent to Summit Scientific and analyzed for EC and pH. Analytical results indicated that four confirmation soil samples were above the COGCC cleanup standards for EC. Analytical results for these soil samples are presented in **Table 4** and soil sampling locations are presented in **Figure 1**. The analytical report is provided in **Appendix D**. Based on the results, additional soil removal activities and confirmation soil sampling activities were required in the areas of EC exceedances.

*June 25, 2020*

Additional soil removal activities were performed in areas of EC exceedances indicated by samples collected on June 3, 2020. Jordan Veith of Kleinfelder resumed confirmation soil sampling activities on June 25, 2020. Four soil samples were collected in areas of EC exceedances on June 25, 2020, which were sent to Summit Scientific and analyzed for EC. Analytical results indicated that the four remaining areas were within COGCC cleanup standards for EC. Analytical results for these soil samples are presented in **Table 5** and soil sampling locations are presented in **Figure 1**. The analytical report is provided in **Appendix E**.

## **SOIL SAMPLING CONCLUSIONS**

Based on the analytical results, COGCC 900 Series Cleanup Standards for a produced water release have been met at the Razor 25B release area.

## LIMITATIONS

This summary was prepared in a manner consistent with that level of care and skill ordinarily exercised by other members of Kleinfelder's profession practicing in the same locality, under similar conditions, and at the date the services are provided. Our conclusions, opinions, and recommendations are based on a limited number of observations and data. It is possible that conditions could vary between or beyond the data evaluated. Kleinfelder makes no other representation, guarantee, or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided.

During the course of the performance of Kleinfelder's services, hazardous materials may be discovered. Kleinfelder assumes no responsibility or liability whatsoever for any claim, loss of property value, damage, or injury that results from pre-existing hazardous materials being encountered or present on the project site, or from the discovery of such hazardous materials. Nothing contained in this report should be construed or interpreted as requiring Kleinfelder to assume the status of an owner, operator, or generator, or person who arranges for disposal, transport, storage, or treatment of hazardous materials within the meaning of any governmental statute, regulation, or order. Whiting is solely responsible for directing notification of all governmental agencies, and the public at large, of the existence, release, treatment, or disposal of any hazardous materials observed at the project site, either before or during performance of Kleinfelder's services. Whiting is responsible for directing all arrangements to lawfully store, treat, recycle, dispose, or otherwise handle hazardous materials, including cuttings and samples resulting from Kleinfelder's services.

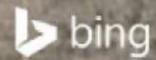
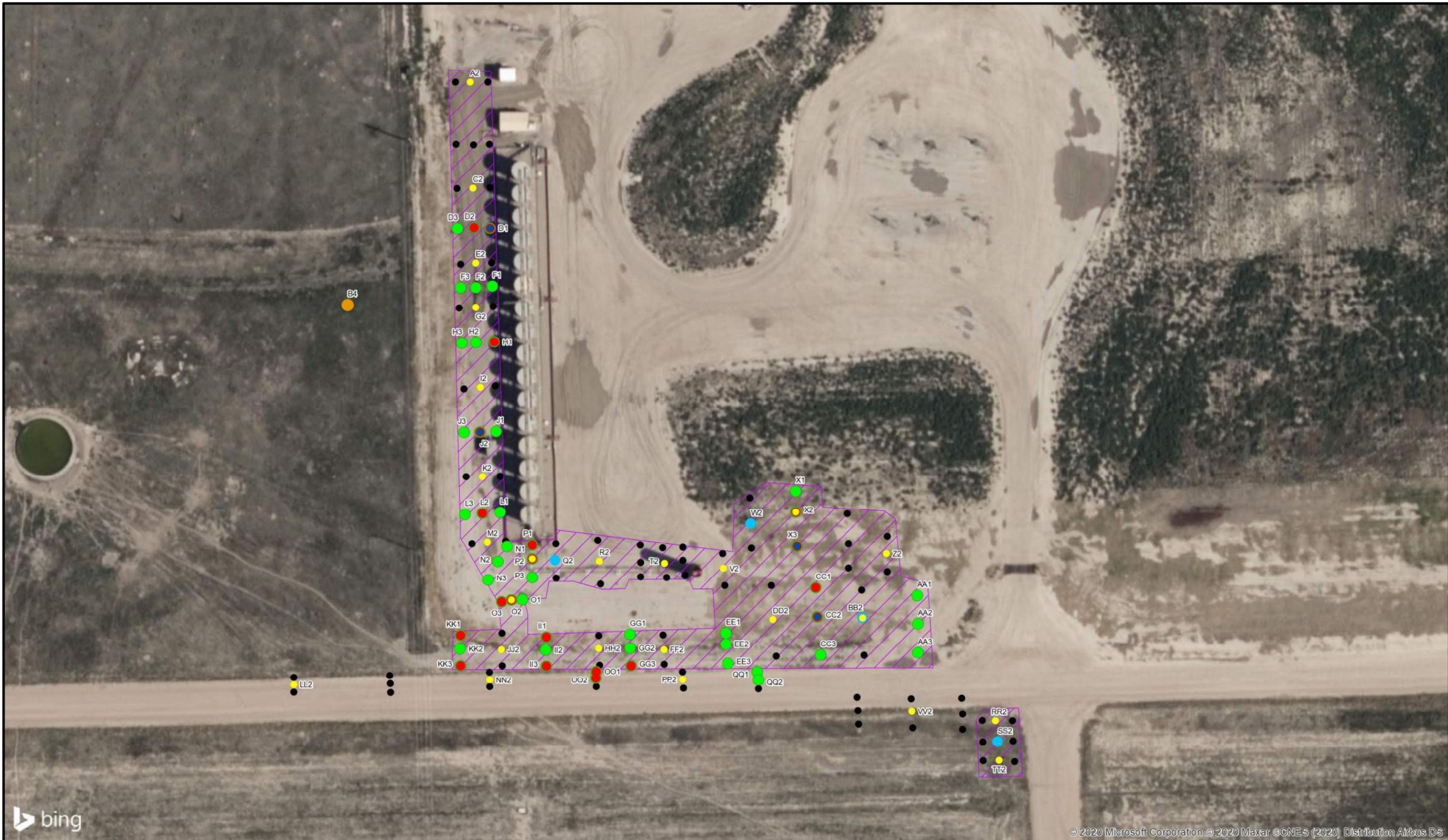
This report may be used only by Whiting and only for the purposes stated for this specific engagement within a reasonable time from its issuance, but in no event later than two (2) years from the date of the report.

## REFERENCES

Colorado Oil and Gas Conservation Commission (COGCC), 2020. "E&P Waste Management" January 14, 2020. <https://cogcc.state.co.us/documents/reg/Rules/LATEST/900series.pdf>

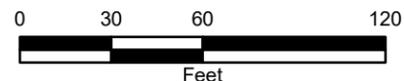
## FIGURES

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**LEGEND**

- In-situ Soil Salinity Screening Location
- Sampled 4/28
- Sampled 5/4
- Sampled 5/11
- Sampled 6/3
- Sampled 6/25
- Background Sample Location
- ▨ Remediation Excavation Area



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PROJECT NO.	20203406
CREATED:	7/9/2020
CREATED BY:	SWalter
CHECKED BY:	BBergeron
FILE NAME:	Whiting_Razor25B_SoilPlan.mxd

<b>Razor 25B Soil Sample Location Map</b>
Whiting Petroleum Corp Weld County, Colorado

FIGURE  
**1**

## TABLES

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Table 1  
Whiting Petroleum Corporation - Razor 25B Pad  
Soil Analytical Results  
April 28, 2020

Sample ID	Date Collected	Sodium Adsorption Ratio (SAR)	Specific Conductance (EC)	pH	Calcium	Magnesium	Sodium
		Calculation	umhos/cm	pH Units	(mg/kg)	(mg/kg)	(mg/kg)
BG XX	4/28/2020	0.49	0.0623	7.34	3.12	1.02	0.70
SS XX	4/28/2020	5.20	0.595	7.21	20.91	6.49	19.26
Q XX	4/28/2020	8.38	0.385	7.28	4.94	1.99	15.59
W XX	4/28/2020	5.47	0.638	7.26	27.71	7.19	22.86
<b>Regulatory Limits</b>		<b>&lt;12<sup>5</sup></b>	<b>&lt;4mmhos/cm or 2x background</b>	<b>6-9</b>			

**Acronyms/Abbreviations:**

Indicates above regulatory limit

mg/kg = milligram per kilogram

umhos/cm = micromhos per centimeter

Table 2  
Whiting Petroleum Corporation - Razor 25B Pad  
Soil Analytical Results  
May 4, 2020

Sample ID	Date Collected	Sodium Adsorption Ratio (SAR) (Calculation)	Specific Conductance (EC) (umhos/cm)	pH pH Units	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)
A	5/4/2020	2.17	1.37	8.85	7640	787	745
C	5/4/2020	1.06	1.19	8.66	5930	578	318
E	5/4/2020	8.41	7.58	8.43	8260	877	3010
G	5/4/2020	9.31	5.48	8.57	9360	974	3540
I	5/4/2020	6.36	9.72	8.45	2840	409	1370
K	5/4/2020	10.3	13.6	8.11	4600	600	2800
M	5/4/2020	10.90	8.14	8.05	6360	791	3450
O	5/4/2020	11.50	16.1	8.06	9300	1010	4370
P	5/4/2020	12.50	14.5	8.07	6570	796	4030
R	5/4/2020	2.06	1.78	8.37	11800	1100	871
T	5/4/2020	3.44	2.48	8.23	5060	885	1010
V	5/4/2020	2.50	1.91	8.48	7840	887	875
X	5/4/2020	3.34	7.22	7.72	6160	820	1050
Z	5/4/2020	4.04	2.83	8.22	2690	480	866
BB	5/4/2020	3.43	1.59	9.08	9810	977	1330
DD	5/4/2020	4.28	4.91	8.02	7820	898	1500
FF	5/4/2020	2.77	1.89	8.20	5640	981	858
HH	5/4/2020	2.86	1.30	9.07	7610	951	995
JJ	5/4/2020	5.63	2.44	9.30	9870	1160	2220
LL	5/4/2020	0.334	0.570	8.25	3750	574	83.0
NN	5/4/2020	3.50	2.85	8.10	3280	673	841
PP	5/4/2020	4.63	1.33	9.73	2720	628	1030
RR	5/4/2020	0.814	0.688	8.3	1480	442	139
TT	5/4/2020	3.10	1.45	8.74	6790	850	1020
VV	5/4/2020	0.61	0.419	8.64	1730	412	108
<b>Regulatory Limits</b>		<b>&lt;12<sup>5</sup></b>	<b>&lt;4mmhos/cm or 2x background</b>	<b>6-9</b>			

Acronyms/Abbreviations:

Indicates above regulatory limit

mg/kg = milligram per kilogram

umhos/cm = micromhos per centimeter

Table 3  
Whiting Petroleum Corporation - Razor 25B Pad  
Soil Analytical Results  
May 11, 2020

Sample ID	Date Collected	Sodium Adsorption Ratio (SAR) (Calculation)	Specific Conductance (EC) (umhos/cm)	pH pH Units	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline Range Hydrocarbons (mg/kg)
D1	5/11/2020	8.50	5.48	8.49	2620	1300	2130	ND	ND	ND	ND	ND
D2	5/11/2020	3.58	4.46	7.97	8950	1310	1370	ND	ND	ND	ND	0.57
D3	5/11/2020	2.58	2.16	8.15	14800	1610	1240	ND	ND	ND	ND	ND
F1	5/11/2020	0.887	1.35	7.94	2800	638	200	ND	ND	ND	ND	ND
F2	5/11/2020	0.856	0.913	8.48	2380	523	177	ND	ND	ND	ND	ND
F3	5/11/2020	4.46	3.58	7.73	3200	802	1090	ND	ND	ND	ND	ND
H1	5/11/2020	2.25	4.14	7.86	8200	892	802	ND	ND	ND	ND	ND
H2	5/11/2020	2.08	1.70	8.18	9290	1180	800	ND	ND	ND	ND	ND
H3	5/11/2020	1.66	2.40	8.19	9390	967	633	ND	ND	ND	ND	ND
J1	5/11/2020	0.824	0.655	8.59	5010	699	235	ND	ND	ND	ND	ND
J2	5/11/2020	6.47	5.97	8.10	4970	790	1860	ND	ND	ND	ND	ND
J3	5/11/2020	2.03	1.93	7.99	2770	490	440	ND	ND	ND	ND	ND
L1	5/11/2020	0.63	0.598	8.24	10600	1100	253	ND	ND	ND	ND	ND
L2	5/11/2020	4.63	5.90	8.11	8890	945	1720	ND	ND	ND	ND	ND
L3	5/11/2020	2.66	2.75	8.29	7100	764	883	ND	ND	ND	ND	ND
N1	5/11/2020	1.51	2.47	8.15	9230	1040	572	ND	ND	ND	ND	ND
N2	5/11/2020	1.82	1.42	8.46	10900	1190	751	ND	ND	ND	ND	ND
N3	5/11/2020	4.13	3.38	8.38	7450	921	1420	ND	ND	ND	ND	ND
O1	5/11/2020	2.66	2.96	8.14	8460	994	969	ND	ND	ND	ND	ND
O2	5/11/2020	5.61	6.54	8.05	9340	1210	2170	ND	ND	ND	ND	ND
O3	5/11/2020	6.73	7.38	8.32	11400	1270	2840	ND	ND	ND	ND	ND
P1	5/11/2020	5.79	5.34	8.41	5130	579	1640	ND	ND	ND	ND	ND
P2	5/11/2020	4.38	4.1	8.59	8990	908	1630	ND	ND	ND	ND	ND
P3	5/11/2020	2.11	1.87	8.68	8110	933	751	ND	ND	ND	ND	ND
X1	5/11/2020	1.78	1.67	8.61	10900	1190	732	ND	ND	ND	ND	ND
X2	5/11/2020	3.74	5.28	8.00	6630	782	1210	ND	ND	ND	ND	ND
X3	5/11/2020	5.21	7.68	7.81	5580	693	1550	ND	ND	ND	ND	ND
AA1	5/11/2020	1.97	1.24	8.73	2350	222	373	ND	ND	ND	ND	ND
AA2	5/11/2020	4.57	3.36	8.39	3120	399	1020	ND	ND	ND	ND	ND
AA3	5/11/2020	1.98	1.19	8.87	11000	1180	817	ND	ND	ND	ND	ND
CC1	5/11/2020	4.96	5.33	8.01	4280	867	1360	ND	ND	ND	ND	ND
CC2	5/11/2020	1.64	4.37	7.83	8760	1570	634	ND	ND	ND	ND	ND
CC3	5/11/2020	4.68	3.64	8.42	5130	1240	1440	ND	ND	ND	ND	ND
EE1	5/11/2020	1.67	0.788	8.77	5210	1210	515	ND	ND	ND	ND	ND
EE2	5/11/2020	3.15	2.68	8.28	7730	1530	1160	ND	ND	ND	ND	ND
EE3	5/11/2020	2.64	1.10	8.96	5060	866	773	ND	ND	ND	ND	ND
GG1	5/11/2020	2.56	1.09	8.86	4290	686	686	ND	ND	ND	ND	ND
GG2	5/11/2020	2.92	2.19	8.22	8570	1340	1100	ND	ND	ND	ND	ND
GG3	5/11/2020	8.09	7.47	7.62	6070	1220	2640	ND	ND	ND	ND	ND
II1	5/11/2020	8.37	4.47	8.72	7290	1140	2910	ND	ND	ND	ND	ND
II2	5/11/2020	3.41	1.31	8.84	7320	1150	1190	ND	ND	ND	ND	ND
II3	5/11/2020	8.76	10.2	7.6	4840	1400	2690	ND	ND	ND	ND	ND
KK1	5/11/2020	3.80	1.29	9.24	5060	784	1100	ND	ND	ND	ND	ND
KK2	5/11/2020	3.93	3.24	8.50	9820	1180	1550	ND	ND	ND	ND	ND
KK3	5/11/2020	5.95	6.06	7.88	3320	565	1410	ND	ND	ND	ND	ND
OO1	5/11/2020	2.23	0.700	9.48	1170	258	323	ND	ND	ND	ND	ND
OO2	5/11/2020	8.86	6.73	8.32	5080	639	2520	ND	ND	ND	ND	ND
QQ1	5/11/2020	2.26	1.41	8.77	4240	557	589	ND	ND	ND	ND	ND
QQ2	5/11/2020	5.59	3.63	8.74	1940	354	1020	ND	ND	ND	ND	ND
<b>Regulatory Limits</b>		<b>&lt;12<sup>s</sup></b>	<b>&lt;4mmhos/cm or 2x background</b>	<b>6-9</b>				<b>&lt;0.17 mg/kg<sup>2</sup></b>	<b>&lt;85 mg/kg<sup>2</sup></b>	<b>&lt;100 mg/kg<sup>2</sup></b>	<b>175 mg/kg<sup>2</sup></b>	

Acronyms/Abbreviations:

Indicates above regulatory limit

mg/kg = milligram per kilogram

umhos/cm = micromhos per centimeter

ND = Not Detected at or above the reporting limit

Table 4  
Whiting Petroleum Corporation - Razor 25B Pad  
Soil Analytical Results  
June 3, 2020

Sample ID	Date Collected	Specific Conductance (EC) (umhos/cm)	pH pH Units
D1	6/3/2020	6.98	--
D2	6/3/2020	1.23	--
H1	6/3/2020	1.08	--
J2	6/3/2020	4.34	--
L2	6/3/2020	2.31	--
O2	6/3/2020	3.35	--
O3	6/3/2020	3.87	--
P1	6/3/2020	2.14	--
P2	6/3/2020	0.732	--
X2	6/3/2020	3.90	--
X3	6/3/2020	4.95	--
CC1	6/3/2020	3.74	--
CC2	6/3/2020	6.88	--
GG3	6/3/2020	0.832	--
II1	6/3/2020	2.76	--
II3	6/3/2020	1.05	--
KK1	6/3/2020	--	8.47
KK3	6/3/2020	0.845	--
OO1	6/3/2020	--	8.1
OO2	6/3/2020	0.929	--
<b>Regulatory Limits</b>		<b>&lt;4mmhos/cm or 2x background</b>	<b>6-9</b>

**Acronyms/Abbreviations:**

Indicates above regulatory limit

umhos/cm = micromhos per centimeter

Table 5  
Whiting Petroleum Corporation - Razor 25B Pad  
Soil Analytical Results  
June 25, 2020

Sample ID	Date Collected	Specific Conductance (EC) (umhos/cm)
D1	6/25/2020	2.20
J2	6/25/2020	1.50
X3	6/25/2020	1.53
CC2	6/25/2020	3.64
<b>Regulatory Limits</b>		<b>&lt;4mmhos/cm or 2x background</b>

**Acronyms/Abbreviations:**

Indicates above regulatory limit

umhos/cm = micromhos per centimeter

**APPENDIX A**  
**SOIL ANALYTICAL REPORT – APRIL 28, 2020**

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May 05, 2020

**Kleinfelder**

**Vince DeCianne**

**1801 California St, Suite 1100**

**Denver CO 80202**

**Project Name - 25B Cleanup**

**Project Number - 20203406 Task 5**

Attached are your analytical results for 25B Cleanup received by Origins Laboratory, Inc. April 29, 2020. This project is associated with Origins project number Y004378-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Kleinfelder  
1801 California St, Suite 1100  
Denver CO 80202

Vince DeCianne  
Project Number: 20203406 Task 5  
Project: 25B Cleanup

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG_XX	Y004378-01	Soil	April 28, 2020 15:40	04/29/2020 07:50
SS_XX	Y004378-02	Soil	April 28, 2020 16:00	04/29/2020 07:50
Q_XX	Y004378-03	Soil	April 28, 2020 16:15	04/29/2020 07:50
W_XX	Y004378-04	Soil	April 28, 2020 16:30	04/29/2020 07:50

The chloride was cancelled on all samples per the email request from Kyle Wagonner on 4/30/2020. JAM

Origins Laboratory, Inc.



*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.*



Kleinfelder  
 1801 California St, Suite 1100  
 Denver CO 80202

Vince DeCianne  
 Project Number: 20203406 Task 5  
 Project: 25B Cleanup

Origins Laboratory

F-012207-01-R1  
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y004378

Client: Kleinfelder  
 Client Project ID: 25B Cleanup

Checklist Completed by: KDK  
 Date/time completed: 04-29-2020

Shipped Via: HP  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 01 / 4.7 °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Jm  
 Reviewed by (Project Manager)

4-30-20  
 Date/Time Reviewed

Origins Laboratory, Inc.



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.

Kleinfelder  
 1801 California St, Suite 1100  
 Denver CO 80202

Vince DeCianne  
 Project Number: 20203406 Task 5  
 Project: 25B Cleanup

**BG XX**  
**4/28/2020 3:40:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**AAL, Inc.**  
**Y004378-01 (Soil)**

**Metals (Saturated Paste Prep)**

Calcium	3.12		me/L	1	[none]		04/30/2020	05/04/2020	
Magnesium	1.02		"	"	"		"	"	
Sodium	0.70		"	"	"		"	"	

**pH in Soil by EPA 9045D**

pH	7.34		pH Units	1	B0D2906	DJL	04/29/2020	04/29/2020	
----	------	--	----------	---	---------	-----	------------	------------	--

**SAR by 20B Saturated Paste**

SAR	0.49			1	[none]		04/30/2020	05/04/2020	
-----	------	--	--	---	--------	--	------------	------------	--

**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.0623	0.00505	mmhos/cm	1	B0D2907	DJL	04/29/2020	04/29/2020	
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Origins Laboratory, Inc.



*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.*

Kleinfelder  
 1801 California St, Suite 1100  
 Denver CO 80202

Vince DeCianne  
 Project Number: 20203406 Task 5  
 Project: 25B Cleanup

**SS XX**  
**4/28/2020 4:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**AAL, Inc.**  
**Y004378-02 (Soil)**

**Metals (Saturated Paste Prep)**

Calcium	20.91		me/L	1	[none]		04/30/2020	05/04/2020	
Magnesium	6.49		"	"	"		"	"	
Sodium	19.26		"	"	"		"	"	

**pH in Soil by EPA 9045D**

pH	7.21		pH Units	1	B0D2906	DJL	04/29/2020	04/29/2020	
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**SAR by 20B Saturated Paste**

SAR	5.20			1	[none]		04/30/2020	05/04/2020	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.595	0.00500	mmhos/cm	1	B0D2907	DJL	04/29/2020	04/29/2020	
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Origins Laboratory, Inc.



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Kleinfelder  
1801 California St, Suite 1100  
Denver CO 80202

Vince DeCianne  
Project Number: 20203406 Task 5  
Project: 25B Cleanup

**Q XX**

**4/28/2020 4:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**AAL, Inc.**  
**Y004378-03 (Soil)**

**Metals (Saturated Paste Prep)**

Calcium	4.94		me/L	1	[none]		04/30/2020	05/04/2020	
Magnesium	1.99		"	"	"		"	"	
Sodium	15.59		"	"	"		"	"	

**pH in Soil by EPA 9045D**

pH	7.28		pH Units	1	B0D2906	DJL	04/29/2020	04/29/2020	
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**SAR by 20B Saturated Paste**

SAR	8.38			1	[none]		04/30/2020	05/04/2020	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.385	0.00500	mmhos/cm	1	B0D2907	DJL	04/29/2020	04/29/2020	
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Origins Laboratory, Inc.



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Kleinfelder  
 1801 California St, Suite 1100  
 Denver CO 80202

Vince DeCianne  
 Project Number: 20203406 Task 5  
 Project: 25B Cleanup

**W XX**  
**4/28/2020 4:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**AAL, Inc.**  
**Y004378-04 (Soil)**

**Metals (Saturated Paste Prep)**

Calcium	27.71		me/L	1	[none]		04/30/2020	05/04/2020	
Magnesium	7.19		"	"	"		"	"	
Sodium	22.86		"	"	"		"	"	

**pH in Soil by EPA 9045D**

pH	7.26		pH Units	1	B0D2906	DJL	04/29/2020	04/29/2020	
----	------	--	----------	---	---------	-----	------------	------------	--

**SAR by 20B Saturated Paste**

SAR	5.47			1	[none]		04/30/2020	05/04/2020	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.638	0.00500	mmhos/cm	1	B0D2907	DJL	04/29/2020	04/29/2020	
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Origins Laboratory, Inc.



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Kleinfelder  
 1801 California St, Suite 1100  
 Denver CO 80202

Vince DeCianne  
 Project Number: 20203406 Task 5  
 Project: 25B Cleanup

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B0D2906 - NO PREP</b>										
<b>Duplicate (B0D2906-DUP1)</b>		<b>Source: Y004385-01</b>			Prepared: 04/29/2020 Analyzed: 04/29/2020					
pH	7.29		pH Units		7.27			0.275	25	
<b>Batch B0D2907 - NO PREP</b>										
<b>Blank (B0D2907-BLK1)</b>					Prepared: 04/29/2020 Analyzed: 04/29/2020					
Specific Conductance (EC)	0.00140	0.00500	mmhos/cm							
<b>Duplicate (B0D2907-DUP1)</b>		<b>Source: Y004385-01</b>			Prepared: 04/29/2020 Analyzed: 04/29/2020					
Specific Conductance (EC)	0.0944	0.00505	mmhos/cm		0.0906			4.11	25	

Origins Laboratory, Inc.



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Kleinfelder  
1801 California St, Suite 1100  
Denver CO 80202

Vince DeCianne  
Project Number: 20203406 Task 5  
Project: 25B Cleanup

---

### Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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**APPENDIX B**  
**SOIL ANALYTICAL REPORT – MAY 4, 2020**

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# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

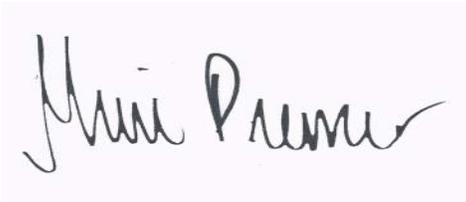
May 06, 2020

Vince DeCianne  
Kleinfelder  
1801 California Street, Suite 1100  
Denver, CO 80202

RE: Razor 25B Cleanup  
Work Order #2005029

Enclosed are the results of analyses for samples received by Summit Scientific on 05/04/20 17:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Muri Premer For Paul Shrewsbury  
President



Kleinfelder  
 1801 California Street, Suite 1100  
 Denver CO, 80202

Project: Razor 25B Cleanup  
 Project Number: 20203406 Task 5  
 Project Manager: Vince DeCianne

**Reported:**  
 05/06/20 15:53

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
A	2005029-01	Soil	05/04/20 11:55	05/04/20 17:30
C	2005029-02	Soil	05/04/20 12:00	05/04/20 17:30
E	2005029-03	Soil	05/04/20 12:05	05/04/20 17:30
G	2005029-04	Soil	05/04/20 12:10	05/04/20 17:30
I	2005029-05	Soil	05/04/20 12:25	05/04/20 17:30
K	2005029-06	Soil	05/04/20 12:30	05/04/20 17:30
M	2005029-07	Soil	05/04/20 12:35	05/04/20 17:30
O	2005029-08	Soil	05/04/20 12:40	05/04/20 17:30
P	2005029-09	Soil	05/04/20 12:50	05/04/20 17:30
R	2005029-10	Soil	05/04/20 12:55	05/04/20 17:30
T	2005029-11	Soil	05/04/20 13:00	05/04/20 17:30
V	2005029-12	Soil	05/04/20 13:05	05/04/20 17:30
X	2005029-13	Soil	05/04/20 13:10	05/04/20 17:30
Z	2005029-14	Soil	05/04/20 13:15	05/04/20 17:30
BB	2005029-15	Soil	05/04/20 13:20	05/04/20 17:30
DD	2005029-16	Soil	05/04/20 13:25	05/04/20 17:30
FF	2005029-17	Soil	05/04/20 13:35	05/04/20 17:30
HH	2005029-18	Soil	05/04/20 13:40	05/04/20 17:30
JJ	2005029-19	Soil	05/04/20 13:45	05/04/20 17:30
LL	2005029-20	Soil	05/04/20 13:50	05/04/20 17:30
NN	2005029-21	Soil	05/04/20 14:00	05/04/20 17:30
PP	2005029-22	Soil	05/04/20 14:05	05/04/20 17:30
RR	2005029-23	Soil	05/04/20 14:10	05/04/20 17:30
TT	2005029-24	Soil	05/04/20 14:15	05/04/20 17:30
VV	2005029-25	Soil	05/04/20 14:20	05/04/20 17:30

Summit Scientific

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Kleinfelder  
1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/06/20 15:53

---

Summit Scientific

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# Summit Scientific

S<sub>2</sub>

2005029.1

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

Page 1 of 3

Client: <u>Kleinfelder</u>	Project Manager: <u>Vince DeCianne</u>
Address: <u>1801 California Street Suite 1100</u>	E-Mail: <u>jveith@kleinfelder.com</u>
City/State/Zip: <u>Denver, CO 80202</u>	<u>Kyle.waggoner@whiting.com</u>
Phone: <u>970-309-6553</u>	Project Name: <u>Perfor 25B cleanup</u>
Sampler Name: <u>Jordan Veith</u>	Project Number: <u>20203406 Task 5</u>

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested			Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	PH	SAR	EC		
1	A	5/4/2020	11:55	1			X			X				X	X	X	
2	C		12:00	1			X			X				X	X	X	
3	E		12:05	1			X			X				X	X	X	
4	G		12:10	1			X			X				X	X	X	
5	H		12:25	1			X			X				X	X	X	
6	K		12:30	1			X			X				X	X	X	
7	M		12:35	1			X			X				X	X	X	
8	O		12:40	1			X			X				X	X	X	
9	P		12:50	1			X			X				X	X	X	
10	R		12:55	1			X			X				X	X	X	

Relinquished by: <u>Jordan Veith</u>	Date/Time: <u>5/4/2020 1730</u>	Received by:	Date/Time: <u>5-4-2020 1730</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/>
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Temperature Upon Receipt: <u>3.6°</u> Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	

# Summit Scientific

S<sub>2</sub>

2005029.2

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

Client: SAME INFO AS PAGE 1

Project Manager:

Address:

E-Mail:

City/State/Zip:

Phone:

Project Name: Kuzor 25 B cleanup

Sampler Name:

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	pH	SAR	EC	
1	T	5/4/2010	13:00	1			X			X			X	X	X	
2	V		13:05	1			X			X			X	X	X	
3	X		13:10	1			X			X			X	X	X	
4	Z		13:15	1			X			X			X	X	X	
5	BB		13:20	1			X			X			X	X	X	
6	DD		13:25	1			X			X			X	X	X	
7	FF		13:35	1			X			X			X	X	X	
8	HH		13:40	1			X			X			X	X	X	
9	JJ		13:45	1			X			X			X	X	X	
10	LL		13:50	1			X			X			X	X	X	

Relinquished by: <i>Jada Vest</i>	Date/Time: 5/4/2010 1730	Received by: <i>[Signature]</i>	Date/Time: 5-4-2010 1730	Turn Around Time (Check) Same Day _____ 72 hours _____ 24 hours _____ Standard <input checked="" type="checkbox"/> 48 hours _____ Sample Integrity: Temperature Upon Receipt: 3.6° 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:		

# Summit Scientific

S<sub>2</sub>

2005029.3

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

Page 3 of 3

Client: SAME INFO AS PAGE 1

Project Manager:

Address:

E-Mail:

City/State/Zip:

Phone:

Project Name: Razor 25B Cleanup

Sampler Name:

Project Number:

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	pH	SAR		EC
1	NN	1400	5/4/2000	1			X			X			X	X	X	
2	PP	1405		1			X			X			X	X	X	
3	<del>AA</del> (N)															
4	RR	1410		1			X			X			X	X	X	
5	TT	1415		1			X			X			X	X	X	
6	VV	1420		1			X			X			X	X	X	
7																
8																
9																
10																

Relinquished by: <u>Jada Vito</u>	Date/Time: <u>5/4/2000 1730</u>	Received by: <u>[Signature]</u>	Date/Time: <u>5-4-2000 1730</u>	Turn Around Time (Check) Same Day _____ 72 hours _____ 24 hours _____ Standard <u>X</u> 48 hours _____ Sample Integrity: Temperature Upon Receipt: <u>3.6°</u> Samples Intact: <u>Yes</u> No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

**Sample Receipt Checklist**

S2 Work Order 2005029

Client: Kleinfelder Client Project ID: Razor 2SB Cleanup

Shipped Via (H.D./P.U./FedEx/UPS/USPS/Other) Airbill #: \_\_\_\_\_

Matrix (check all that apply):  Air  Soil/Solid  Water  Other: \_\_\_\_\_  
(Describe)

Temp (°C)	3.6°
-----------	------

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C <sup>(1)</sup> ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<input checked="" type="checkbox"/>			on ice
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
If custody seals are present, are they intact <sup>(1)</sup> ?			<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect			<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ? Record the pH in Comments.			<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?			<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

AT  
Custodian Printed Name or Initials

[Signature]  
Signature of Custodian

5-4-2020  
Date/Time



Kleinfelder  
1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/06/20 15:53

**A**  
**2005029-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/20 11:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	7640	13.0	mg/kg dry	1	2005045	05/05/20	05/05/20	EPA 6020B	
Magnesium	787	6.49	"	"	"	"	"	"	
Sodium	745	6.49	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/04/20 11:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	2.17	0.100	units	1	2005056	05/06/20	05/06/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/04/20 11:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	77.0		%	1	2005047	05/06/20	05/06/20	Calculation	
pH	8.85		pH Units	"	2005048	05/06/20	05/06/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/04/20 11:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	1.37	0.0100	mmhos/cm	1	2005049	05/06/20	05/06/20	EPA 120.1	

Summit Scientific

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Kleinfelder  
1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/06/20 15:53

**C**  
**2005029-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/20 12:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>5930</b>	11.5	mg/kg dry	1	2005045	05/05/20	05/06/20	EPA 6020B	
<b>Magnesium</b>	<b>578</b>	5.74	"	"	"	"	"	"	
<b>Sodium</b>	<b>318</b>	5.74	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/04/20 12:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>1.06</b>	0.100	units	1	2005056	05/06/20	05/06/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/04/20 12:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>% Solids</b>	<b>87.2</b>		%	1	2005047	05/06/20	05/06/20	Calculation	
<b>pH</b>	<b>8.66</b>		pH Units	"	2005048	05/06/20	05/06/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/04/20 12:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Specific Conductance (EC)</b>	<b>1.19</b>	0.0100	mmhos/cm	1	2005049	05/06/20	05/06/20	EPA 120.1	

Summit Scientific

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Kleinfelder  
1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/06/20 15:53

**E**  
**2005029-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/20 12:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>8260</b>	13.1	mg/kg dry	1	2005045	05/05/20	05/06/20	EPA 6020B	
<b>Magnesium</b>	<b>877</b>	6.55	"	"	"	"	"	"	
<b>Sodium</b>	<b>3010</b>	6.55	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/04/20 12:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>8.41</b>	0.100	units	1	2005056	05/06/20	05/06/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/04/20 12:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>% Solids</b>	<b>76.3</b>		%	1	2005047	05/06/20	05/06/20	Calculation	
<b>pH</b>	<b>8.43</b>		pH Units	"	2005048	05/06/20	05/06/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/04/20 12:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Specific Conductance (EC)</b>	<b>7.58</b>	0.0100	mmhos/cm	1	2005049	05/06/20	05/06/20	EPA 120.1	

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1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/06/20 15:53

**G**  
**2005029-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/20 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>9360</b>	13.2	mg/kg dry	1	2005045	05/05/20	05/06/20	EPA 6020B	
<b>Magnesium</b>	<b>974</b>	6.59	"	"	"	"	"	"	
<b>Sodium</b>	<b>3540</b>	6.59	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/04/20 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>9.31</b>	0.100	units	1	2005056	05/06/20	05/06/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/04/20 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>% Solids</b>	<b>75.9</b>		%	1	2005047	05/06/20	05/06/20	Calculation	
<b>pH</b>	<b>8.57</b>		pH Units	"	2005048	05/06/20	05/06/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/04/20 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Specific Conductance (EC)</b>	<b>5.48</b>	0.0100	mmhos/cm	1	2005049	05/06/20	05/06/20	EPA 120.1	

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Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/06/20 15:53

**I**  
**2005029-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/20 12:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>2840</b>	11.4	mg/kg dry	1	2005045	05/05/20	05/06/20	EPA 6020B	
<b>Magnesium</b>	<b>409</b>	5.70	"	"	"	"	"	"	
<b>Sodium</b>	<b>1370</b>	5.70	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/04/20 12:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>6.36</b>	0.100	units	1	2005056	05/06/20	05/06/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/04/20 12:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>% Solids</b>	<b>87.7</b>		%	1	2005047	05/06/20	05/06/20	Calculation	
<b>pH</b>	<b>8.45</b>		pH Units	"	2005048	05/06/20	05/06/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/04/20 12:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Specific Conductance (EC)</b>	<b>9.72</b>	0.0100	mmhos/cm	1	2005049	05/06/20	05/06/20	EPA 120.1	

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Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/06/20 15:53

**K**  
**2005029-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/20 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>4600</b>	12.7	mg/kg dry	1	2005045	05/05/20	05/06/20	EPA 6020B	
<b>Magnesium</b>	<b>600</b>	6.34	"	"	"	"	"	"	
<b>Sodium</b>	<b>2800</b>	6.34	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/04/20 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>10.3</b>	0.100	units	1	2005056	05/06/20	05/06/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/04/20 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>% Solids</b>	<b>78.8</b>		%	1	2005047	05/06/20	05/06/20	Calculation	
<b>pH</b>	<b>8.11</b>		pH Units	"	2005048	05/06/20	05/06/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/04/20 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Specific Conductance (EC)</b>	<b>13.6</b>	0.0100	mmhos/cm	1	2005049	05/06/20	05/06/20	EPA 120.1	

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Project Manager: Vince DeCianne

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05/06/20 15:53

**M**  
**2005029-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/20 12:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>6360</b>	12.9	mg/kg dry	1	2005045	05/05/20	05/06/20	EPA 6020B	
<b>Magnesium</b>	<b>791</b>	6.44	"	"	"	"	"	"	
<b>Sodium</b>	<b>3450</b>	6.44	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/04/20 12:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>10.9</b>	0.100	units	1	2005056	05/06/20	05/06/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/04/20 12:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>% Solids</b>	<b>77.6</b>		%	1	2005047	05/06/20	05/06/20	Calculation	
<b>pH</b>	<b>8.05</b>		pH Units	"	2005048	05/06/20	05/06/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/04/20 12:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Specific Conductance (EC)</b>	<b>8.14</b>	0.0100	mmhos/cm	1	2005049	05/06/20	05/06/20	EPA 120.1	

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05/06/20 15:53

**O**  
**2005029-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/20 12:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>9300</b>	12.7	mg/kg dry	1	2005045	05/05/20	05/06/20	EPA 6020B	
<b>Magnesium</b>	<b>1010</b>	6.35	"	"	"	"	"	"	
<b>Sodium</b>	<b>4370</b>	6.35	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/04/20 12:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>11.5</b>	0.100	units	1	2005056	05/06/20	05/06/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/04/20 12:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>% Solids</b>	<b>78.8</b>		%	1	2005047	05/06/20	05/06/20	Calculation	
<b>pH</b>	<b>8.06</b>		pH Units	"	2005048	05/06/20	05/06/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/04/20 12:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Specific Conductance (EC)</b>	<b>16.1</b>	0.0100	mmhos/cm	1	2005049	05/06/20	05/06/20	EPA 120.1	

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05/06/20 15:53

**P**  
**2005029-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/20 12:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	6570	12.0	mg/kg dry	1	2005045	05/05/20	05/06/20	EPA 6020B	
Magnesium	796	6.01	"	"	"	"	"	"	
Sodium	4030	6.01	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/04/20 12:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	12.5	0.100	units	1	2005056	05/06/20	05/06/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/04/20 12:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	83.2		%	1	2005047	05/06/20	05/06/20	Calculation	
pH	8.07		pH Units	"	2005048	05/06/20	05/06/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/04/20 12:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	14.5	0.0100	mmhos/cm	1	2005049	05/06/20	05/06/20	EPA 120.1	

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05/06/20 15:53

**R**  
**2005029-10 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/20 12:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>11800</b>	12.8	mg/kg dry	1	2005044	05/05/20	05/05/20	EPA 6020B	
<b>Magnesium</b>	<b>1100</b>	6.39	"	"	"	"	"	"	
<b>Sodium</b>	<b>871</b>	6.39	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/04/20 12:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>2.06</b>	0.100	units	1	2005056	05/06/20	05/06/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/04/20 12:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>% Solids</b>	<b>78.3</b>		%	1	2005047	05/06/20	05/06/20	Calculation	
<b>pH</b>	<b>8.37</b>		pH Units	"	2005048	05/06/20	05/06/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/04/20 12:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Specific Conductance (EC)</b>	<b>1.78</b>	0.0100	mmhos/cm	1	2005049	05/06/20	05/06/20	EPA 120.1	

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Project Manager: Vince DeCianne

**Reported:**  
05/06/20 15:53

**T**  
**2005029-11 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/20 13:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>5060</b>	13.0	mg/kg dry	1	2005044	05/05/20	05/05/20	EPA 6020B	
<b>Magnesium</b>	<b>885</b>	6.52	"	"	"	"	"	"	
<b>Sodium</b>	<b>1010</b>	6.52	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/04/20 13:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>3.44</b>	0.100	units	1	2005056	05/06/20	05/06/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/04/20 13:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>% Solids</b>	<b>76.7</b>		%	1	2005047	05/06/20	05/06/20	Calculation	
<b>pH</b>	<b>8.23</b>		pH Units	"	2005048	05/06/20	05/06/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/04/20 13:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Specific Conductance (EC)</b>	<b>2.48</b>	0.0100	mmhos/cm	1	2005049	05/06/20	05/06/20	EPA 120.1	

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Project Manager: Vince DeCianne

**Reported:**  
05/06/20 15:53

**V**  
**2005029-12 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/20 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>7840</b>	12.3	mg/kg dry	1	2005044	05/05/20	05/05/20	EPA 6020B	
<b>Magnesium</b>	<b>887</b>	6.17	"	"	"	"	"	"	
<b>Sodium</b>	<b>875</b>	6.17	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/04/20 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>2.50</b>	0.100	units	1	2005056	05/06/20	05/06/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/04/20 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>% Solids</b>	<b>81.1</b>		%	1	2005047	05/06/20	05/06/20	Calculation	
<b>pH</b>	<b>8.48</b>		pH Units	"	2005048	05/06/20	05/06/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/04/20 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Specific Conductance (EC)</b>	<b>1.91</b>	0.0100	mmhos/cm	1	2005049	05/06/20	05/06/20	EPA 120.1	

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**X**  
**2005029-13 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/20 13:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>6160</b>	13.0	mg/kg dry	1	2005044	05/05/20	05/05/20	EPA 6020B	
<b>Magnesium</b>	<b>820</b>	6.48	"	"	"	"	"	"	
<b>Sodium</b>	<b>1050</b>	6.48	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/04/20 13:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>3.34</b>	0.100	units	1	2005056	05/06/20	05/06/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/04/20 13:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>% Solids</b>	<b>77.1</b>		%	1	2005047	05/06/20	05/06/20	Calculation	
<b>pH</b>	<b>7.72</b>		pH Units	"	2005048	05/06/20	05/06/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/04/20 13:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Specific Conductance (EC)</b>	<b>7.22</b>	0.0100	mmhos/cm	1	2005049	05/06/20	05/06/20	EPA 120.1	

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05/06/20 15:53

**Z**  
**2005029-14 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/20 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	2690	12.0	mg/kg dry	1	2005044	05/05/20	05/05/20	EPA 6020B	
Magnesium	480	6.00	"	"	"	"	"	"	
Sodium	866	6.00	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/04/20 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	4.04	0.100	units	1	2005056	05/06/20	05/06/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/04/20 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	83.3		%	1	2005047	05/06/20	05/06/20	Calculation	
pH	8.22		pH Units	"	2005048	05/06/20	05/06/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/04/20 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	2.83	0.0100	mmhos/cm	1	2005049	05/06/20	05/06/20	EPA 120.1	

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1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/06/20 15:53

**BB**  
**2005029-15 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/20 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>9810</b>	12.8	mg/kg dry	1	2005044	05/05/20	05/05/20	EPA 6020B	
<b>Magnesium</b>	<b>977</b>	6.41	"	"	"	"	"	"	
<b>Sodium</b>	<b>1330</b>	6.41	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/04/20 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>3.43</b>	0.100	units	1	2005055	05/06/20	05/06/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/04/20 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>% Solids</b>	<b>78.0</b>		%	1	2005043	05/05/20	05/06/20	Calculation	
<b>pH</b>	<b>9.08</b>		pH Units	"	2005041	05/05/20	05/06/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/04/20 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Specific Conductance (EC)</b>	<b>1.59</b>	0.0100	mmhos/cm	1	2005042	05/05/20	05/06/20	EPA 120.1	

Summit Scientific

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**Reported:**  
05/06/20 15:53

**DD**  
**2005029-16 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/20 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>7820</b>	12.9	mg/kg dry	1	2005044	05/05/20	05/05/20	EPA 6020B	
<b>Magnesium</b>	<b>898</b>	6.46	"	"	"	"	"	"	
<b>Sodium</b>	<b>1500</b>	6.46	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/04/20 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>4.28</b>	0.100	units	1	2005055	05/06/20	05/06/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/04/20 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>% Solids</b>	<b>77.4</b>		%	1	2005043	05/05/20	05/06/20	Calculation	
<b>pH</b>	<b>8.02</b>		pH Units	"	2005041	05/05/20	05/06/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/04/20 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Specific Conductance (EC)</b>	<b>4.91</b>	0.0100	mmhos/cm	1	2005042	05/05/20	05/06/20	EPA 120.1	

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**Reported:**  
05/06/20 15:53

**FF**  
**2005029-17 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/20 13:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>5640</b>	13.3	mg/kg dry	1	2005044	05/05/20	05/05/20	EPA 6020B	
<b>Magnesium</b>	<b>981</b>	6.64	"	"	"	"	"	"	
<b>Sodium</b>	<b>858</b>	6.64	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/04/20 13:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>2.77</b>	0.100	units	1	2005055	05/06/20	05/06/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/04/20 13:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>% Solids</b>	<b>75.3</b>		%	1	2005043	05/05/20	05/06/20	Calculation	
<b>pH</b>	<b>8.20</b>		pH Units	"	2005041	05/05/20	05/06/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/04/20 13:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Specific Conductance (EC)</b>	<b>1.89</b>	0.0100	mmhos/cm	1	2005042	05/05/20	05/06/20	EPA 120.1	

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**Reported:**  
05/06/20 15:53

**HH**  
**2005029-18 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/20 13:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>7610</b>	12.7	mg/kg dry	1	2005044	05/05/20	05/05/20	EPA 6020B	
<b>Magnesium</b>	<b>951</b>	6.35	"	"	"	"	"	"	
<b>Sodium</b>	<b>995</b>	6.35	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/04/20 13:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>2.86</b>	0.100	units	1	2005055	05/06/20	05/06/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/04/20 13:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>% Solids</b>	<b>78.8</b>		%	1	2005043	05/05/20	05/06/20	Calculation	
<b>pH</b>	<b>9.07</b>		pH Units	"	2005041	05/05/20	05/06/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/04/20 13:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Specific Conductance (EC)</b>	<b>1.30</b>	0.0100	mmhos/cm	1	2005042	05/05/20	05/06/20	EPA 120.1	

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**Reported:**  
05/06/20 15:53

**JJ**  
**2005029-19 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/20 13:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>9870</b>	13.1	mg/kg dry	1	2005044	05/05/20	05/05/20	EPA 6020B	
<b>Magnesium</b>	<b>1160</b>	6.56	"	"	"	"	"	"	
<b>Sodium</b>	<b>2220</b>	6.56	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/04/20 13:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>5.63</b>	0.100	units	1	2005055	05/06/20	05/06/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/04/20 13:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>% Solids</b>	<b>76.2</b>		%	1	2005043	05/05/20	05/06/20	Calculation	
<b>pH</b>	<b>9.30</b>		pH Units	"	2005041	05/05/20	05/06/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/04/20 13:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Specific Conductance (EC)</b>	<b>2.44</b>	0.0100	mmhos/cm	1	2005042	05/05/20	05/06/20	EPA 120.1	

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**Reported:**  
05/06/20 15:53

**LL**  
**2005029-20 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/20 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>3750</b>	12.3	mg/kg dry	1	2005044	05/05/20	05/05/20	EPA 6020B	
<b>Magnesium</b>	<b>574</b>	6.16	"	"	"	"	"	"	
<b>Sodium</b>	<b>83.0</b>	6.16	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/04/20 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>0.334</b>	0.100	units	1	2005055	05/06/20	05/06/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/04/20 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>% Solids</b>	<b>81.2</b>		%	1	2005043	05/05/20	05/06/20	Calculation	
<b>pH</b>	<b>8.25</b>		pH Units	"	2005041	05/05/20	05/06/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/04/20 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Specific Conductance (EC)</b>	<b>0.570</b>	0.0100	mmhos/cm	1	2005042	05/05/20	05/06/20	EPA 120.1	

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**Reported:**  
05/06/20 15:53

NN  
2005029-21 (Soil)

**Summit Scientific**

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

Date Sampled: **05/04/20 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	3280	12.5	mg/kg dry	1	2005044	05/05/20	05/05/20	EPA 6020B	
Magnesium	673	6.26	"	"	"	"	"	"	
Sodium	841	6.26	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/04/20 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	3.50	0.100	units	1	2005055	05/06/20	05/06/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/04/20 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	79.9		%	1	2005043	05/05/20	05/06/20	Calculation	
pH	8.10		pH Units	"	2005041	05/05/20	05/06/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/04/20 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	2.85	0.0100	mmhos/cm	1	2005042	05/05/20	05/06/20	EPA 120.1	

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**Reported:**  
05/06/20 15:53

**PP**  
**2005029-22 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/20 14:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>2720</b>	11.2	mg/kg dry	1	2005044	05/05/20	05/05/20	EPA 6020B	
<b>Magnesium</b>	<b>628</b>	5.60	"	"	"	"	"	"	
<b>Sodium</b>	<b>1030</b>	5.60	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/04/20 14:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>4.63</b>	0.100	units	1	2005055	05/06/20	05/06/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/04/20 14:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>% Solids</b>	<b>89.2</b>		%	1	2005043	05/05/20	05/06/20	Calculation	
<b>pH</b>	<b>9.73</b>		pH Units	"	2005041	05/05/20	05/06/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/04/20 14:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Specific Conductance (EC)</b>	<b>1.33</b>	0.0100	mmhos/cm	1	2005042	05/05/20	05/06/20	EPA 120.1	

Summit Scientific

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**Reported:**  
05/06/20 15:53

**RR**  
**2005029-23 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/20 14:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>1480</b>	12.5	mg/kg dry	1	2005044	05/05/20	05/05/20	EPA 6020B	
<b>Magnesium</b>	<b>442</b>	6.25	"	"	"	"	"	"	
<b>Sodium</b>	<b>139</b>	6.25	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/04/20 14:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>0.814</b>	0.100	units	1	2005055	05/06/20	05/06/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/04/20 14:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>% Solids</b>	<b>80.0</b>		%	1	2005043	05/05/20	05/06/20	Calculation	
<b>pH</b>	<b>8.30</b>		pH Units	"	2005041	05/05/20	05/06/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/04/20 14:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Specific Conductance (EC)</b>	<b>0.688</b>	0.0100	mmhos/cm	1	2005042	05/05/20	05/06/20	EPA 120.1	

Summit Scientific

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**Reported:**  
05/06/20 15:53

**TT**  
**2005029-24 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/20 14:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>6790</b>	13.5	mg/kg dry	1	2005044	05/05/20	05/05/20	EPA 6020B	
<b>Magnesium</b>	<b>850</b>	6.77	"	"	"	"	"	"	
<b>Sodium</b>	<b>1020</b>	6.77	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/04/20 14:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>3.10</b>	0.100	units	1	2005055	05/06/20	05/06/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/04/20 14:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>% Solids</b>	<b>73.8</b>		%	1	2005043	05/05/20	05/06/20	Calculation	
<b>pH</b>	<b>8.74</b>		pH Units	"	2005041	05/05/20	05/06/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/04/20 14:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Specific Conductance (EC)</b>	<b>1.45</b>	0.0100	mmhos/cm	1	2005042	05/05/20	05/06/20	EPA 120.1	

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**Reported:**  
05/06/20 15:53

**VV**  
**2005029-25 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/20 14:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	1730	12.4	mg/kg dry	1	2005044	05/05/20	05/05/20	EPA 6020B	
Magnesium	412	6.19	"	"	"	"	"	"	
Sodium	108	6.19	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/04/20 14:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.606	0.100	units	1	2005055	05/06/20	05/06/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/04/20 14:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	80.8		%	1	2005043	05/05/20	05/06/20	Calculation	
pH	8.64		pH Units	"	2005041	05/05/20	05/06/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/04/20 14:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.419	0.0100	mmhos/cm	1	2005042	05/05/20	05/06/20	EPA 120.1	

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**Reported:**  
05/06/20 15:53

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

**Summit Scientific**

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

**Batch 2005044 - General Preparation**

**Blank (2005044-BLK1)**

Prepared & Analyzed: 05/05/20

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

**LCS (2005044-BS1)**

Prepared & Analyzed: 05/05/20

Calcium	539	10.0	mg/kg wet	500		108	70-130			
Magnesium	587	5.00	"	500		117	70-130			
Sodium	535	5.00	"	500		107	70-130			

**Duplicate (2005044-DUP1)**

Source: 2005029-10

Prepared & Analyzed: 05/05/20

Calcium	11800	12.8	mg/kg dry		11800			0.000256	20	
Magnesium	1050	6.39	"		1100			4.84	20	
Sodium	865	6.39	"		871			0.714	20	

**Matrix Spike (2005044-MS1)**

Source: 2005029-10

Prepared & Analyzed: 05/05/20

Calcium	12500	12.8	mg/kg dry	639	11800	106	70-130			
Magnesium	1740	6.39	"	639	1100	99.3	70-130			
Sodium	1500	6.39	"	639	871	98.6	70-130			

**Matrix Spike Dup (2005044-MSD1)**

Source: 2005029-10

Prepared & Analyzed: 05/05/20

Calcium	12600	12.8	mg/kg dry	639	11800	112	70-130	0.344	25	
Magnesium	1700	6.39	"	639	1100	93.8	70-130	2.05	25	
Sodium	1500	6.39	"	639	871	98.4	70-130	0.0831	25	

**Batch 2005045 - General Preparation**

**Blank (2005045-BLK1)**

Prepared & Analyzed: 05/05/20

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

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*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.*



Kleinfelder  
1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/06/20 15:53

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

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

**Batch 2005045 - General Preparation**

**LCS (2005045-BS1)**

Prepared & Analyzed: 05/05/20

Calcium	526	10.0	mg/kg wet	500		105	70-130		
Magnesium	565	5.00	"	500		113	70-130		
Sodium	517	5.00	"	500		103	70-130		

**Duplicate (2005045-DUP1)**

Source: 2005029-01

Prepared & Analyzed: 05/05/20

Calcium	7440	13.0	mg/kg dry	649	7640		2.62	20
Magnesium	928	6.49	"	649	787		16.4	20
Sodium	779	6.49	"	649	745		4.45	20

**Matrix Spike (2005045-MS1)**

Source: 2005029-01

Prepared & Analyzed: 05/05/20

Calcium	8340	13.0	mg/kg dry	649	7640	107	70-130	
Magnesium	1520	6.49	"	649	787	112	70-130	
Sodium	1430	6.49	"	649	745	105	70-130	

**Matrix Spike Dup (2005045-MSD1)**

Source: 2005029-01

Prepared: 05/05/20 Analyzed: 05/06/20

Calcium	8370	13.0	mg/kg dry	649	7640	112	70-130	0.392	25
Magnesium	1430	6.49	"	649	787	98.3	70-130	6.23	25
Sodium	1350	6.49	"	649	745	92.6	70-130	5.89	25

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Kleinfelder  
1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/06/20 15:53

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

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

**Batch 2005041 - General Preparation**

LCS (2005041-BS1)		Prepared: 05/05/20 Analyzed: 05/06/20										
pH	9.14		pH Units	9.18		99.6	95-105					
Duplicate (2005041-DUP1)		Source: 2004407-01		Prepared: 05/05/20 Analyzed: 05/06/20								
pH	8.24		pH Units	8.49		2.99	20					

**Batch 2005043 - General Preparation**

Duplicate (2005043-DUP1)		Source: 2004301-08		Prepared: 05/05/20 Analyzed: 05/06/20								
% Solids	87.6		%	87.5		0.103	20					

**Batch 2005047 - General Preparation**

Duplicate (2005047-DUP1)		Source: 2004411-01		Prepared & Analyzed: 05/06/20								
% Solids	94.4		%	94.1		0.321	20					

**Batch 2005048 - General Preparation**

LCS (2005048-BS1)		Prepared & Analyzed: 05/06/20										
pH	9.20		pH Units	9.18		100	95-105					
Duplicate (2005048-DUP1)		Source: 2005029-01		Prepared & Analyzed: 05/06/20								
pH	8.90		pH Units	8.85		0.563	20					

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Kleinfelder  
1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/06/20 15:53

**Specific Conductance by EPA Method 120.1 - Quality Control**  
**Summit Scientific**

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

**Batch 2005042 - General Preparation**

<b>Blank (2005042-BLK1)</b>		Prepared: 05/05/20 Analyzed: 05/06/20									
Specific Conductance (EC)	ND	0.0100	mmhos/cm								
<b>LCS (2005042-BS1)</b>		Prepared: 05/05/20 Analyzed: 05/06/20									
Specific Conductance (EC)	0.778	0.0100	mmhos/cm	0.750	104	90-110					
<b>Duplicate (2005042-DUP1)</b>		<b>Source: 2004407-01</b>		Prepared: 05/05/20 Analyzed: 05/06/20							
Specific Conductance (EC)	1.62	0.0100	mmhos/cm		1.39				15.3	20	

**Batch 2005049 - General Preparation**

<b>Blank (2005049-BLK1)</b>		Prepared & Analyzed: 05/06/20									
Specific Conductance (EC)	ND	0.0100	mmhos/cm								
<b>LCS (2005049-BS1)</b>		Prepared & Analyzed: 05/06/20									
Specific Conductance (EC)	0.794	0.0100	mmhos/cm	0.750	106	90-110					
<b>Duplicate (2005049-DUP1)</b>		<b>Source: 2005029-01</b>		Prepared & Analyzed: 05/06/20							
Specific Conductance (EC)	1.36	0.0100	mmhos/cm		1.37				0.588	20	

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Kleinfelder  
1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/06/20 15:53

### 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

**APPENDIX C**  
**SOIL ANALYTICAL REPORT – MAY 11, 2020**

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# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 19, 2020

Vince DeCianne  
Kleinfelder  
1801 California Street, Suite 1100  
Denver, CO 80202

RE: Razor 25B Cleanup  
Work Order #2005131

Enclosed are the results of analyses for samples received by Summit Scientific on 05/12/20 08:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Muri Premer For Paul Shrewsbury  
President



Kleinfelder  
1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
D1	2005131-01	Soil	05/11/20 13:05	05/12/20 08:30
D2	2005131-02	Soil	05/11/20 13:08	05/12/20 08:30
D3	2005131-03	Soil	05/11/20 13:11	05/12/20 08:30
F1	2005131-04	Soil	05/11/20 13:14	05/12/20 08:30
F2	2005131-05	Soil	05/11/20 13:17	05/12/20 08:30
F3	2005131-06	Soil	05/11/20 13:20	05/12/20 08:30
H1	2005131-07	Soil	05/11/20 13:23	05/12/20 08:30
H2	2005131-08	Soil	05/11/20 13:26	05/12/20 08:30
H3	2005131-09	Soil	05/11/20 13:29	05/12/20 08:30
J1	2005131-10	Soil	05/11/20 13:32	05/12/20 08:30
J2	2005131-11	Soil	05/11/20 13:35	05/12/20 08:30
J3	2005131-12	Soil	05/11/20 13:38	05/12/20 08:30
L1	2005131-13	Soil	05/11/20 13:41	05/12/20 08:30
L2	2005131-14	Soil	05/11/20 13:44	05/12/20 08:30
L3	2005131-15	Soil	05/11/20 13:47	05/12/20 08:30
N1	2005131-16	Soil	05/11/20 13:50	05/12/20 08:30
N2	2005131-17	Soil	05/11/20 13:53	05/12/20 08:30
N3	2005131-18	Soil	05/11/20 13:56	05/12/20 08:30
O1	2005131-19	Soil	05/11/20 13:59	05/12/20 08:30
O2	2005131-20	Soil	05/11/20 14:02	05/12/20 08:30
O3	2005131-21	Soil	05/11/20 14:05	05/12/20 08:30
P1	2005131-22	Soil	05/11/20 14:08	05/12/20 08:30
P2	2005131-23	Soil	05/11/20 14:11	05/12/20 08:30
P3	2005131-24	Soil	05/11/20 14:14	05/12/20 08:30
X1	2005131-25	Soil	05/11/20 15:35	05/12/20 08:30
X2	2005131-26	Soil	05/11/20 15:38	05/12/20 08:30
X3	2005131-27	Soil	05/11/20 15:41	05/12/20 08:30

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Kleinfelder  
1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AA1	2005131-28	Soil	05/11/20 15:44	05/12/20 08:30
AA2	2005131-29	Soil	05/11/20 15:47	05/12/20 08:30
AA3	2005131-30	Soil	05/11/20 15:50	05/12/20 08:30
CC1	2005131-31	Soil	05/11/20 15:53	05/12/20 08:30
CC2	2005131-32	Soil	05/11/20 15:56	05/12/20 08:30
CC3	2005131-33	Soil	05/11/20 15:59	05/12/20 08:30
EE1	2005131-34	Soil	05/11/20 16:02	05/12/20 08:30
EE2	2005131-35	Soil	05/11/20 16:05	05/12/20 08:30
EE3	2005131-36	Soil	05/11/20 16:08	05/12/20 08:30
GG1	2005131-37	Soil	05/11/20 16:11	05/12/20 08:30
GG2	2005131-38	Soil	05/11/20 16:14	05/12/20 08:30
GG3	2005131-39	Soil	05/11/20 16:17	05/12/20 08:30
II1	2005131-40	Soil	05/11/20 16:20	05/12/20 08:30
II2	2005131-41	Soil	05/11/20 16:23	05/12/20 08:30
II3	2005131-42	Soil	05/11/20 16:26	05/12/20 08:30
KK1	2005131-43	Soil	05/11/20 16:29	05/12/20 08:30
KK2	2005131-44	Soil	05/11/20 16:32	05/12/20 08:30
KK3	2005131-45	Soil	05/11/20 16:35	05/12/20 08:30
OO1	2005131-46	Soil	05/11/20 16:38	05/12/20 08:30
OO2	2005131-47	Soil	05/11/20 16:41	05/12/20 08:30
QQ1	2005131-48	Soil	05/11/20 16:44	05/12/20 08:30
QQ2	2005131-49	Soil	05/11/20 16:47	05/12/20 08:30

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S<sub>2</sub>

2005131.1

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303-277-9310

Page 1 of 6

Client: Kleinfelder Project Manager: Vince DeCiarro  
 Address: 1801 California St Ste # 1100 E-Mail: jveith@kleinfelder.com  
 City/State/Zip: Denver CO 80202 kyle.wagoner@whiting.com  
 Phone: 970-309-6553 Project Name: 25B Cleanup  
 Sampler Name: J. Veith + J. Brantley Project Number: 20103406 Task 5

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested					Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	PH	SAR	EC	BTEX		TPH
1	D1	5/11/2020	1305	1			X			X			X	X	X	X	X	
2	D2		1308	1			X			X			X	X	X	X	X	
3	D3		1311	1			X			X			X	X	X	X	X	
4	F1		1314	1			X			X			X	X	X	X	X	
5	F2		1317	1			X			X			X	X	X	X	X	
6	F3		1320	1			X			X			X	X	X	X	X	
7	H1		1323	1			X			X			X	X	X	X	X	
8	H2		1324	1			X			X			X	X	X	X	X	
9	H3		1329	1			X			X			X	X	X	X	X	
10																		

Relinquished by: <u>Josh W</u>	Date/Time: <u>5/12/2020 830</u>	Received by: <u>Michael O</u>	Date/Time: <u>5/12/20 8:30</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day _____ 72 hours	Standard <u>X</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours _____	
Relinquished by:	Date/Time:	Received by:	Date/Time:	48 hours _____	
Sample Integrity:				Temperature Upon Receipt: <u>6.5</u>	Samples Intact: <u>(Yes)</u> No

# Summit Scientific

S<sub>2</sub>

2005131.2

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

Page 2 of 6

Client: Same as pg. 1 Project Manager: \_\_\_\_\_  
 Address: \_\_\_\_\_ E-Mail: \_\_\_\_\_  
 City/State/Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Project Name: \_\_\_\_\_  
 Sampler Name: \_\_\_\_\_ 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	PH	SAR	EC	BTEX		TPH
1	J1	5/11/2020	1332	1			X			X			X	X	X	X	X	
2	J2		1335	1			X			X								
3	J3		1338	1			X			X								
4	L1		1341	1			X			X								
5	L2		1344	1			X			X								
6	L3		1347	1			X			X								
7	N1		1350	1			X			X								
8	N2		1353	1			X			X								
9	N3		1356	1			X			X								
10																		

Relinquished by: <u>Jacob Aitch</u>	Date/Time: <u>5/12/2020 830</u>	Received by: <u>[Signature]</u>	Date/Time: <u>5/12/20 8:30</u>	<b>Turn Around Time</b> (Check) Same Day _____ 72 hours _____ 24 hours _____ Standard <u>X</u> 48 hours _____ <b>Sample Integrity:</b> Temperature Upon Receipt: <u>6.5</u> Samples Intact: <u>(Yes)</u> No	<b>Notes:</b>
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

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S<sub>2</sub>

2005131.3

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Page 5 of 6

Client: Same as pg. 1 Project Manager: \_\_\_\_\_  
 Address: \_\_\_\_\_ E-Mail: \_\_\_\_\_  
 City/State/Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Project Name: \_\_\_\_\_  
 Sampler Name: \_\_\_\_\_ Project Number: \_\_\_\_\_

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	pH	SAR	EC	BTEX	TPH	
1	01	5/11/2010	1359	1			X			X			X	X	X	X	X	
2	02	↓	1402	1			X			X			X	X	X	X	X	
3	03		1405	1			X			X			X	X	X	X	X	
4	P1		1408	1			X			X			X	X	X	X	X	
5	P2		1411	1			X			X			X	X	X	X	X	
6	P3	↓	1414	1			X			X			X	X	X	X	X	
7	X1	5/14/2010	1535	1			X			X			X	X	X	X	X	
8	X2	↓	1538	1			X			X			X	X	X	X	X	
9	X3	↓	1541	1			X			X			X	X	X	X	X	
10	<hr/>																	

Relinquished by: <u>Jordan Vito</u>	Date/Time: <u>5/12/2010 830</u>	Received by: <u>[Signature]</u>	Date/Time: <u>5/12/20 8:30</u>	Turn Around Time (Check) Same Day _____ 72 hours 24 hours _____ Standard <u>X</u> 48 hours _____ Sample Integrity: Temperature Upon Receipt: <u>6.5</u> Samples Intact: <u>Yes</u> No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

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S<sub>2</sub>

2005131.4

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303-277-9310

Page 4 of 6

Client: Same as pg. 1 Project Manager: \_\_\_\_\_  
 Address: \_\_\_\_\_ E-Mail: \_\_\_\_\_  
 City/State/Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Project Name: \_\_\_\_\_  
 Sampler Name: \_\_\_\_\_ Project Number: \_\_\_\_\_

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	PH	SAR	EC	BTEX	TPH		
1	AA1	5/14/2000	1544	1			X			X				X	X	X	X	X	
2	AA2	↓	1547	1			X			X				X	X	X	X	X	
3	AA3		1550	1			X			X				X	X	X	X	X	
4	CC 1		1553	1			X			X				X	X	X	X	X	
5	CC 2		1556	1			X			X				X	X	X	X	X	
6	CC 3		1559	1			X			X				X	X	X	X	X	
7	EE 1		1602	1			X			X				X	X	X	X	X	
8	EE 2		1605	1			X			X				X	X	X	X	X	
9	EE 3		1608	1			X			X				X	X	X	X	X	
10																			

Relinquished by: <u>Jada Carr</u> Date/Time: <u>5/14/2000 8:50</u>	Received by: <u>[Signature]</u> Date/Time: <u>5/14/2000 8:30</u>	Turn Around Time (Check) Same Day _____ 72 hours 24 hours _____ Standard <u>X</u> 48 hours _____ Sample Integrity: Temperature Upon Receipt: <u>6.5</u> Samples Intact: <u>Yes</u> No	Notes:
Relinquished by: _____ Date/Time: _____	Received by: _____ Date/Time: _____		
Relinquished by: _____ Date/Time: _____	Received by: _____ Date/Time: _____		

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S<sub>2</sub>

2005131.5

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Page 5 of 6

Client: Same as pg. 1 Project Manager: \_\_\_\_\_  
 Address: \_\_\_\_\_ E-Mail: \_\_\_\_\_  
 City/State/Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Project Name: \_\_\_\_\_  
 Sampler Name: \_\_\_\_\_ 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	pH	SAR	EC	BTEX		TPH
1	GG 1	5/11/2020	1611	1			X			X			X	X	X	X	X	
2	GG 2		1614	1			X			X								
3	GG 3		1617	1			X			X								
4	II 1		1620	1			X			X								
5	II 2		1623	1			X			X								
6	II 3		1626	1			X			X								
7	KK 1		1629	1			X			X								
8	KK 2		1632	1			X			X								
9	KK 3		1635	1			X			X								
10																		

Relinquished by: <u>Jordan Vert</u>	Date/Time: <u>5/12/2020 8:30</u>	Received by: <u>[Signature]</u>	Date/Time: <u>5/12/20 8:30</u>	Turn Around Time (Check) Same Day _____ 72 hours 24 hours _____ Standard <u>X</u> 48 hours _____ Sample Integrity: Temperature Upon Receipt: <u>6.5</u> Samples Intact: <u>(Yes)</u> No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

# Summit Scientific

S<sub>2</sub>

2005131.6

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

Page 6 of 6

Client: Same as pg. 1 Project Manager: \_\_\_\_\_  
 Address: \_\_\_\_\_ E-Mail: \_\_\_\_\_  
 City/State/Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Project Name: \_\_\_\_\_  
 Sampler Name: \_\_\_\_\_ 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	PH	SAR	EC	BTEX	TPH		
1	001	5/11/2010	1638	1			X			X				X	X	X	X	X	
2	002	↓	1641	1			X			X				↓	↓	↓	↓	↓	
3	QQ 1	↓	1644	1			X			X				↓	↓	↓	↓	↓	
4	QQ 2	↓	1647	1			X			X				↓	↓	↓	↓	↓	
5																			
6																			
7																			
8																			
9																			
10																			

Relinquished by: <u>Jada Vee</u>	Date/Time: <u>5/14/2010 830</u>	Received by: <u>[Signature]</u>	Date/Time: <u>5/12/20 8:30</u>	<b>Turn Around Time</b> (Check) Same Day _____ 72 hours _____ 24 hours _____ Standard <u>X</u> 48 hours _____ <b>Sample Integrity:</b> Temperature Upon Receipt: <u>6.5</u> Samples Intact: <u>Yes</u> No	<b>Notes:</b>
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

2005131

Sample Receipt Checklist

S2 Work Order \_\_\_\_\_

Client: Kleinfelder Client Project ID: 25B Cleanup

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

Matrix (check all that apply):  Air  Soil/Solid  Water  Other: \_\_\_\_\_  
(Describe)

Temp (°C)	6.5
-----------	-----

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.				
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact <sup>(1)</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect				
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):  
 \_\_\_\_\_  
 \_\_\_\_\_

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

MC  
 Custodian Printed Name or Initials

MC  
 Signature of Custodian

5/12/20  
 Date/Time



Kleinfelder  
1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**D1**  
**2005131-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	2005206	05/15/20	05/15/20	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **05/11/20 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		147 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		108 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %		21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>C10-C28 (DRO)</b>	<b>86</b>	50		mg/kg	1	2005208	05/15/20	05/16/20	EPA 8015M	

Date Sampled: **05/11/20 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		121 %		30-150		"	"	"	"	

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

Date Sampled: **05/11/20 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Calcium</b>	<b>2620</b>	10.9		mg/kg dry	1	2005162	05/13/20	05/13/20	EPA 6020B	
<b>Magnesium</b>	<b>1300</b>	5.44		"	"	"	"	"	"	

Summit Scientific

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Kleinfelder  
1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**D1**  
**2005131-01 (Soil)**

**Summit Scientific**

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

<b>Sodium</b>	<b>2130</b>	5.44	mg/kg dry	1	2005162	05/13/20	05/13/20	EPA 6020B
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**Calculated Analysis**

Date Sampled: **05/11/20 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>8.50</b>	0.100	units	1	2005202	05/15/20	05/15/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>% Solids</b>	<b>92.0</b>		%	1	2005169	05/14/20	05/14/20	Calculation	
<b>pH</b>	<b>8.49</b>		pH Units	"	2005167	05/14/20	05/14/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>5.48</b>	0.0100	mmhos/cm	1	2005168	05/14/20	05/14/20	EPA 120.1	

Summit Scientific

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Kleinfelder  
1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**D2**  
**2005131-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 13:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2005206	05/15/20	05/15/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.57</b>	<b>0.50</b>	"	"	"	"	"	"	

Date Sampled: **05/11/20 13:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		129 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		106 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 13:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2005208	05/15/20	05/17/20	EPA 8015M	

Date Sampled: **05/11/20 13:08**

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

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

Date Sampled: **05/11/20 13:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>8950</b>	11.9	mg/kg dry	1	2005162	05/13/20	05/13/20	EPA 6020B	
<b>Magnesium</b>	<b>1310</b>	5.97	"	"	"	"	"	"	
<b>Sodium</b>	<b>1370</b>	5.97	"	"	"	"	"	"	

Summit Scientific

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Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**D2**  
**2005131-02 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 13:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.58	0.100	units	1	2005202	05/15/20	05/15/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 13:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.7		%	1	2005169	05/14/20	05/14/20	Calculation	
pH	7.97		pH Units	"	2005167	05/14/20	05/14/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 13:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.46	0.0100	mmhos/cm	1	2005168	05/14/20	05/14/20	EPA 120.1	

Summit Scientific

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Kleinfelder  
1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**D3**  
**2005131-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 13:11**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	2005206	05/15/20	05/15/20	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **05/11/20 13:11**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		133 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		109 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %		21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 13:11**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	2005208	05/15/20	05/17/20	EPA 8015M	

Date Sampled: **05/11/20 13:11**

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

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

Date Sampled: **05/11/20 13:11**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Calcium</b>	<b>14800</b>	12.5		mg/kg dry	1	2005162	05/13/20	05/13/20	EPA 6020B	
<b>Magnesium</b>	<b>1610</b>	6.27		"	"	"	"	"	"	
<b>Sodium</b>	<b>1240</b>	6.27		"	"	"	"	"	"	

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Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**D3**  
**2005131-03 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 13:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.58	0.100	units	1	2005202	05/15/20	05/15/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 13:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.7		%	1	2005169	05/14/20	05/14/20	Calculation	
pH	8.15		pH Units	"	2005167	05/14/20	05/14/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 13:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.16	0.0100	mmhos/cm	1	2005168	05/14/20	05/14/20	EPA 120.1	

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Kleinfelder  
1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**F1**  
**2005131-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 13:14**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	2005206	05/15/20	05/15/20	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **05/11/20 13:14**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		135 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		107 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %		21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 13:14**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	2005208	05/15/20	05/17/20	EPA 8015M	

Date Sampled: **05/11/20 13:14**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		117 %		30-150		"	"	"	"	

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

Date Sampled: **05/11/20 13:14**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Calcium</b>	<b>2800</b>	10.8		mg/kg dry	1	2005162	05/13/20	05/13/20	EPA 6020B	
<b>Magnesium</b>	<b>638</b>	5.42		"	"	"	"	"	"	
<b>Sodium</b>	<b>200</b>	5.42		"	"	"	"	"	"	

Summit Scientific

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Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**F1**  
**2005131-04 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 13:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.887</b>	0.100	units	1	2005202	05/15/20	05/15/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 13:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>92.2</b>		%	1	2005169	05/14/20	05/14/20	Calculation	
pH	<b>7.94</b>		pH Units	"	2005167	05/14/20	05/14/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 13:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>1.35</b>	0.0100	mmhos/cm	1	2005168	05/14/20	05/14/20	EPA 120.1	

Summit Scientific

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Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**F2**  
**2005131-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 13:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	2005206	05/15/20	05/15/20	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **05/11/20 13:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		137 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %		21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 13:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	2005208	05/15/20	05/17/20	EPA 8015M	

Date Sampled: **05/11/20 13:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		117 %		30-150		"	"	"	"	

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

Date Sampled: **05/11/20 13:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Calcium</b>	<b>2380</b>	10.7		mg/kg dry	1	2005162	05/13/20	05/13/20	EPA 6020B	
<b>Magnesium</b>	<b>523</b>	5.35		"	"	"	"	"	"	
<b>Sodium</b>	<b>177</b>	5.35		"	"	"	"	"	"	

Summit Scientific

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1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**F2**  
**2005131-05 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 13:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.856</b>	0.100	units	1	2005202	05/15/20	05/15/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 13:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>93.5</b>		%	1	2005169	05/14/20	05/14/20	Calculation	
pH	<b>8.48</b>		pH Units	"	2005167	05/14/20	05/14/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 13:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.913</b>	0.0100	mmhos/cm	1	2005168	05/14/20	05/14/20	EPA 120.1	

Summit Scientific



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Kleinfelder  
1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**F3**  
**2005131-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005206	05/15/20	05/15/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		167 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		110 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005208	05/15/20	05/17/20	EPA 8015M	

Date Sampled: **05/11/20 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		119 %	30-150		"	"	"	"	

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

Date Sampled: **05/11/20 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>3200</b>	13.1	mg/kg dry	1	2005162	05/13/20	05/13/20	EPA 6020B	
Magnesium	<b>802</b>	6.53	"	"	"	"	"	"	
Sodium	<b>1090</b>	6.53	"	"	"	"	"	"	

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Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**F3**  
**2005131-06 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.46	0.100	units	1	2005202	05/15/20	05/15/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	76.5		%	1	2005169	05/14/20	05/14/20	Calculation	
pH	7.73		pH Units	"	2005167	05/14/20	05/14/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.58	0.0100	mmhos/cm	1	2005168	05/14/20	05/14/20	EPA 120.1	

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Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**H1**  
**2005131-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 13:23**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005206	05/15/20	05/15/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 13:23**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		137 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		107 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 13:23**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005208	05/15/20	05/17/20	EPA 8015M	

Date Sampled: **05/11/20 13:23**

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

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

Date Sampled: **05/11/20 13:23**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>8200</b>	11.8	mg/kg dry	1	2005162	05/13/20	05/13/20	EPA 6020B	
Magnesium	<b>892</b>	5.90	"	"	"	"	"	"	
Sodium	<b>802</b>	5.90	"	"	"	"	"	"	

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**H1**  
**2005131-07 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.25	0.100	units	1	2005202	05/15/20	05/15/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.8		%	1	2005169	05/14/20	05/14/20	Calculation	
pH	7.86		pH Units	"	2005167	05/14/20	05/14/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.14	0.0100	mmhos/cm	1	2005168	05/14/20	05/14/20	EPA 120.1	

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**Reported:**  
05/19/20 15:08

**H2**  
**2005131-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 13:26**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005206	05/15/20	05/15/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 13:26**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		144 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		106 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 13:26**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005208	05/15/20	05/17/20	EPA 8015M	

Date Sampled: **05/11/20 13:26**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		119 %	30-150		"	"	"	"	

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

Date Sampled: **05/11/20 13:26**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>9290</b>	12.3	mg/kg dry	1	2005162	05/13/20	05/13/20	EPA 6020B	
<b>Magnesium</b>	<b>1180</b>	6.17	"	"	"	"	"	"	
<b>Sodium</b>	<b>800</b>	6.17	"	"	"	"	"	"	

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05/19/20 15:08

**H2**  
**2005131-08 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 13:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>2.08</b>	0.100	units	1	2005202	05/15/20	05/15/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 13:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>81.0</b>		%	1	2005169	05/14/20	05/14/20	Calculation	
pH	<b>8.18</b>		pH Units	"	2005167	05/14/20	05/14/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 13:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>1.70</b>	0.0100	mmhos/cm	1	2005168	05/14/20	05/14/20	EPA 120.1	

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**Reported:**  
05/19/20 15:08

**H3**  
**2005131-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 13:29**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005206	05/15/20	05/15/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 13:29**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		143 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		111 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 13:29**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005208	05/15/20	05/17/20	EPA 8015M	

Date Sampled: **05/11/20 13:29**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		119 %	30-150		"	"	"	"	

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

Date Sampled: **05/11/20 13:29**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>9390</b>	12.2	mg/kg dry	1	2005162	05/13/20	05/13/20	EPA 6020B	
Magnesium	<b>967</b>	6.12	"	"	"	"	"	"	
Sodium	<b>633</b>	6.12	"	"	"	"	"	"	

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**H3**  
**2005131-09 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 13:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.66	0.100	units	1	2005202	05/15/20	05/15/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 13:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.7		%	1	2005169	05/14/20	05/14/20	Calculation	
pH	8.19		pH Units	"	2005167	05/14/20	05/14/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 13:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.40	0.0100	mmhos/cm	1	2005168	05/14/20	05/14/20	EPA 120.1	

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**Reported:**  
05/19/20 15:08

**J1**  
**2005131-10 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 13:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	2005205	05/15/20	05/15/20	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **05/11/20 13:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		141 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %		21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 13:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	2005207	05/15/20	05/15/20	EPA 8015M	

Date Sampled: **05/11/20 13:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		97.6 %		30-150		"	"	"	"	

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

Date Sampled: **05/11/20 13:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Calcium</b>	<b>5010</b>	11.5		mg/kg dry	1	2005162	05/13/20	05/13/20	EPA 6020B	
<b>Magnesium</b>	<b>699</b>	5.73		"	"	"	"	"	"	
<b>Sodium</b>	<b>235</b>	5.73		"	"	"	"	"	"	

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05/19/20 15:08

**J1**  
**2005131-10 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 13:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.824</b>	0.100	units	1	2005202	05/15/20	05/15/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 13:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>87.2</b>		%	1	2005169	05/14/20	05/14/20	Calculation	
pH	<b>8.59</b>		pH Units	"	2005167	05/14/20	05/14/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 13:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.655</b>	0.0100	mmhos/cm	1	2005168	05/14/20	05/14/20	EPA 120.1	

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**Reported:**  
05/19/20 15:08

**J2**  
**2005131-11 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 13:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005205	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 13:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		140 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		108 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 13:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005207	05/15/20	05/15/20	EPA 8015M	

Date Sampled: **05/11/20 13:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		96.4 %	30-150		"	"	"	"	

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

Date Sampled: **05/11/20 13:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>4970</b>	12.1	mg/kg dry	1	2005162	05/13/20	05/13/20	EPA 6020B	
<b>Magnesium</b>	<b>790</b>	6.03	"	"	"	"	"	"	
<b>Sodium</b>	<b>1860</b>	6.03	"	"	"	"	"	"	

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**Reported:**  
05/19/20 15:08

**J2**  
**2005131-11 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.47	0.100	units	1	2005202	05/15/20	05/15/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.0		%	1	2005169	05/14/20	05/14/20	Calculation	
pH	8.10		pH Units	"	2005167	05/14/20	05/14/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.97	0.0100	mmhos/cm	1	2005168	05/14/20	05/14/20	EPA 120.1	

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Kleinfelder  
1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**J3**  
**2005131-12 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 13:38**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005205	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 13:38**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		164 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		113 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 13:38**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005207	05/15/20	05/15/20	EPA 8015M	

Date Sampled: **05/11/20 13:38**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		82.2 %	30-150		"	"	"	"	

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

Date Sampled: **05/11/20 13:38**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>2770</b>	11.6	mg/kg dry	1	2005162	05/13/20	05/13/20	EPA 6020B	
Magnesium	<b>490</b>	5.82	"	"	"	"	"	"	
Sodium	<b>440</b>	5.82	"	"	"	"	"	"	

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Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**J3**  
**2005131-12 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 13:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.03	0.100	units	1	2005202	05/15/20	05/15/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 13:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.9		%	1	2005169	05/14/20	05/14/20	Calculation	
pH	7.99		pH Units	"	2005167	05/14/20	05/14/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 13:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.93	0.0100	mmhos/cm	1	2005168	05/14/20	05/14/20	EPA 120.1	

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Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**L1**  
**2005131-13 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 13:41**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	2005205	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **05/11/20 13:41**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		145 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		109 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %		21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 13:41**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	2005207	05/15/20	05/15/20	EPA 8015M	

Date Sampled: **05/11/20 13:41**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		97.5 %		30-150		"	"	"	"	

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

Date Sampled: **05/11/20 13:41**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Calcium</b>	<b>10600</b>	12.5		mg/kg dry	1	2005162	05/13/20	05/13/20	EPA 6020B	
<b>Magnesium</b>	<b>1100</b>	6.26		"	"	"	"	"	"	
<b>Sodium</b>	<b>253</b>	6.26		"	"	"	"	"	"	

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05/19/20 15:08

**L1**  
**2005131-13 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 13:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.625</b>	0.100	units	1	2005202	05/15/20	05/15/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 13:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>79.9</b>		%	1	2005169	05/14/20	05/14/20	Calculation	
pH	<b>8.24</b>		pH Units	"	2005167	05/14/20	05/14/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 13:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.598</b>	0.0100	mmhos/cm	1	2005168	05/14/20	05/14/20	EPA 120.1	

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**Reported:**  
05/19/20 15:08

**L2**  
**2005131-14 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 13:44**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005205	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 13:44**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		131 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		106 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 13:44**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005207	05/15/20	05/15/20	EPA 8015M	

Date Sampled: **05/11/20 13:44**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		95.6 %	30-150		"	"	"	"	

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

Date Sampled: **05/11/20 13:44**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>8890</b>	11.8	mg/kg dry	1	2005162	05/13/20	05/13/20	EPA 6020B	
<b>Magnesium</b>	<b>945</b>	5.91	"	"	"	"	"	"	
<b>Sodium</b>	<b>1720</b>	5.91	"	"	"	"	"	"	

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05/19/20 15:08

**L2**  
**2005131-14 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 13:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.63	0.100	units	1	2005202	05/15/20	05/15/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 13:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.6		%	1	2005169	05/14/20	05/14/20	Calculation	
pH	8.11		pH Units	"	2005167	05/14/20	05/14/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 13:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.90	0.0100	mmhos/cm	1	2005168	05/14/20	05/14/20	EPA 120.1	

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**Reported:**  
05/19/20 15:08

**L3**  
**2005131-15 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 13:47**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005205	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 13:47**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		149 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		110 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 13:47**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005207	05/15/20	05/15/20	EPA 8015M	

Date Sampled: **05/11/20 13:47**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		103 %	30-150		"	"	"	"	

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

Date Sampled: **05/11/20 13:47**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>7100</b>	11.8	mg/kg dry	1	2005162	05/13/20	05/13/20	EPA 6020B	
<b>Magnesium</b>	<b>764</b>	5.88	"	"	"	"	"	"	
<b>Sodium</b>	<b>883</b>	5.88	"	"	"	"	"	"	

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**Reported:**  
05/19/20 15:08

**L3**  
**2005131-15 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 13:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.66	0.100	units	1	2005202	05/15/20	05/15/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 13:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.1		%	1	2005169	05/14/20	05/14/20	Calculation	
pH	8.29		pH Units	"	2005167	05/14/20	05/14/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 13:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.75	0.0100	mmhos/cm	1	2005168	05/14/20	05/14/20	EPA 120.1	

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**Reported:**  
05/19/20 15:08

**N1**  
**2005131-16 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005205	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		154 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		107 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005207	05/15/20	05/15/20	EPA 8015M	

Date Sampled: **05/11/20 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		104 %	30-150		"	"	"	"	

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

Date Sampled: **05/11/20 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>9230</b>	12.7	mg/kg dry	1	2005185	05/14/20	05/14/20	EPA 6020B	
<b>Magnesium</b>	<b>1040</b>	6.34	"	"	"	"	"	"	
<b>Sodium</b>	<b>572</b>	6.34	"	"	"	"	"	"	

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**Reported:**  
05/19/20 15:08

**N1**  
**2005131-16 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.51	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.9		%	1	2005169	05/14/20	05/14/20	Calculation	
pH	8.15		pH Units	"	2005167	05/14/20	05/14/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.47	0.0100	mmhos/cm	1	2005168	05/14/20	05/14/20	EPA 120.1	

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**Reported:**  
05/19/20 15:08

**N2**  
**2005131-17 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 13:53**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005205	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 13:53**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		147 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		110 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 13:53**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005207	05/15/20	05/15/20	EPA 8015M	

Date Sampled: **05/11/20 13:53**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		101 %	30-150		"	"	"	"	

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

Date Sampled: **05/11/20 13:53**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>10900</b>	12.1	mg/kg dry	1	2005185	05/14/20	05/15/20	EPA 6020B	
<b>Magnesium</b>	<b>1190</b>	6.03	"	"	"	"	"	"	
<b>Sodium</b>	<b>751</b>	6.03	"	"	"	"	"	"	

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**Reported:**  
05/19/20 15:08

**N2**  
**2005131-17 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 13:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.82	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 13:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.9		%	1	2005169	05/14/20	05/14/20	Calculation	
pH	8.46		pH Units	"	2005167	05/14/20	05/14/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 13:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.42	0.0100	mmhos/cm	1	2005168	05/14/20	05/14/20	EPA 120.1	

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Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**N3**  
**2005131-18 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 13:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005205	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 13:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		149 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		109 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 13:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005207	05/15/20	05/15/20	EPA 8015M	

Date Sampled: **05/11/20 13:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		101 %	30-150		"	"	"	"	

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

Date Sampled: **05/11/20 13:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>7450</b>	11.9	mg/kg dry	1	2005185	05/14/20	05/15/20	EPA 6020B	
<b>Magnesium</b>	<b>921</b>	5.96	"	"	"	"	"	"	
<b>Sodium</b>	<b>1420</b>	5.96	"	"	"	"	"	"	

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Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**N3**  
**2005131-18 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 13:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.13	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 13:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.0		%	1	2005169	05/14/20	05/14/20	Calculation	
pH	8.38		pH Units	"	2005167	05/14/20	05/14/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 13:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.38	0.0100	mmhos/cm	1	2005168	05/14/20	05/14/20	EPA 120.1	

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Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**O1**  
**2005131-19 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 13:59**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005205	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 13:59**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		141 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		108 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 13:59**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005207	05/15/20	05/15/20	EPA 8015M	

Date Sampled: **05/11/20 13:59**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		103 %	30-150		"	"	"	"	

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

Date Sampled: **05/11/20 13:59**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>8460</b>	11.8	mg/kg dry	1	2005185	05/14/20	05/15/20	EPA 6020B	
<b>Magnesium</b>	<b>994</b>	5.91	"	"	"	"	"	"	
<b>Sodium</b>	<b>969</b>	5.91	"	"	"	"	"	"	

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**Reported:**  
05/19/20 15:08

**O1**  
**2005131-19 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 13:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.66	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 13:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.6		%	1	2005169	05/14/20	05/14/20	Calculation	
pH	8.14		pH Units	"	2005167	05/14/20	05/14/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 13:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.96	0.0100	mmhos/cm	1	2005168	05/14/20	05/14/20	EPA 120.1	

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**Reported:**  
05/19/20 15:08

**O2**  
**2005131-20 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 14:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005205	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 14:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		142 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		109 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 14:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005207	05/15/20	05/15/20	EPA 8015M	

Date Sampled: **05/11/20 14:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		97.9 %	30-150		"	"	"	"	

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

Date Sampled: **05/11/20 14:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>9340</b>	12.4	mg/kg dry	1	2005185	05/14/20	05/15/20	EPA 6020B	
Magnesium	<b>1210</b>	6.21	"	"	"	"	"	"	
Sodium	<b>2170</b>	6.21	"	"	"	"	"	"	

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05/19/20 15:08

**O2**  
**2005131-20 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 14:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.61	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 14:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.5		%	1	2005169	05/14/20	05/14/20	Calculation	
pH	8.05		pH Units	"	2005167	05/14/20	05/14/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 14:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	6.54	0.0100	mmhos/cm	1	2005168	05/14/20	05/14/20	EPA 120.1	

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Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**O3**  
**2005131-21 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 14:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005205	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 14:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		148 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		109 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 14:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005207	05/15/20	05/16/20	EPA 8015M	

Date Sampled: **05/11/20 14:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		104 %	30-150		"	"	"	"	

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

Date Sampled: **05/11/20 14:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>11400</b>	12.2	mg/kg dry	1	2005185	05/14/20	05/15/20	EPA 6020B	
<b>Magnesium</b>	<b>1270</b>	6.12	"	"	"	"	"	"	
<b>Sodium</b>	<b>2840</b>	6.12	"	"	"	"	"	"	

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**Reported:**  
05/19/20 15:08

**O3**  
**2005131-21 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.73	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.7		%	1	2005181	05/14/20	05/15/20	Calculation	
pH	8.32		pH Units	"	2005191	05/15/20	05/15/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	7.38	0.0100	mmhos/cm	1	2005192	05/15/20	05/15/20	EPA 120.1	

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**Reported:**  
05/19/20 15:08

**P1**  
**2005131-22 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 14:08**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005205	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 14:08**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		124 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 14:08**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005207	05/15/20	05/16/20	EPA 8015M	

Date Sampled: **05/11/20 14:08**

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

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

Date Sampled: **05/11/20 14:08**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>5130</b>	11.0	mg/kg dry	1	2005185	05/14/20	05/15/20	EPA 6020B	
<b>Magnesium</b>	<b>579</b>	5.49	"	"	"	"	"	"	
<b>Sodium</b>	<b>1640</b>	5.49	"	"	"	"	"	"	

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**Reported:**  
05/19/20 15:08

**P1**  
**2005131-22 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 14:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.79	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 14:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.0		%	1	2005181	05/14/20	05/15/20	Calculation	
pH	8.41		pH Units	"	2005191	05/15/20	05/15/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 14:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.34	0.0100	mmhos/cm	1	2005192	05/15/20	05/15/20	EPA 120.1	

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**Reported:**  
05/19/20 15:08

**P2**  
**2005131-23 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 14:11**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005205	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 14:11**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		132 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		106 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 14:11**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005207	05/15/20	05/16/20	EPA 8015M	

Date Sampled: **05/11/20 14:11**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		103 %	30-150		"	"	"	"	

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

Date Sampled: **05/11/20 14:11**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>8990</b>	11.4	mg/kg dry	1	2005185	05/14/20	05/15/20	EPA 6020B	
<b>Magnesium</b>	<b>908</b>	5.69	"	"	"	"	"	"	
<b>Sodium</b>	<b>1630</b>	5.69	"	"	"	"	"	"	

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**Reported:**  
05/19/20 15:08

**P2**  
**2005131-23 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 14:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.38	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 14:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.9		%	1	2005181	05/14/20	05/15/20	Calculation	
pH	8.59		pH Units	"	2005191	05/15/20	05/15/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 14:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.10	0.0100	mmhos/cm	1	2005192	05/15/20	05/15/20	EPA 120.1	

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Kleinfelder  
1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**P3**  
**2005131-24 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 14:14**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005205	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 14:14**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		139 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		107 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 14:14**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005207	05/15/20	05/16/20	EPA 8015M	

Date Sampled: **05/11/20 14:14**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		96.9 %	30-150		"	"	"	"	

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

Date Sampled: **05/11/20 14:14**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>8110</b>	12.1	mg/kg dry	1	2005185	05/14/20	05/15/20	EPA 6020B	
<b>Magnesium</b>	<b>933</b>	6.06	"	"	"	"	"	"	
<b>Sodium</b>	<b>751</b>	6.06	"	"	"	"	"	"	

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Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**P3**  
**2005131-24 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 14:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.11	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 14:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.5		%	1	2005181	05/14/20	05/15/20	Calculation	
pH	8.68		pH Units	"	2005191	05/15/20	05/15/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 14:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.87	0.0100	mmhos/cm	1	2005192	05/15/20	05/15/20	EPA 120.1	

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Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**X1**  
**2005131-25 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 15:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005205	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 15:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		128 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 15:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005207	05/15/20	05/16/20	EPA 8015M	

Date Sampled: **05/11/20 15:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		99.4 %	30-150		"	"	"	"	

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

Date Sampled: **05/11/20 15:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>10900</b>	12.4	mg/kg dry	1	2005185	05/14/20	05/15/20	EPA 6020B	
<b>Magnesium</b>	<b>1190</b>	6.18	"	"	"	"	"	"	
<b>Sodium</b>	<b>732</b>	6.18	"	"	"	"	"	"	

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**Reported:**  
05/19/20 15:08

**X1**  
**2005131-25 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 15:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.78	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 15:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.9		%	1	2005181	05/14/20	05/15/20	Calculation	
pH	8.61		pH Units	"	2005191	05/15/20	05/15/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 15:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.67	0.0100	mmhos/cm	1	2005192	05/15/20	05/15/20	EPA 120.1	

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Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**X2**  
**2005131-26 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 15:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	2005205	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **05/11/20 15:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		150 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		110 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %		21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 15:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	2005207	05/15/20	05/16/20	EPA 8015M	

Date Sampled: **05/11/20 15:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		93.2 %		30-150		"	"	"	"	

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

Date Sampled: **05/11/20 15:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Calcium</b>	<b>6630</b>	12.1		mg/kg dry	1	2005185	05/14/20	05/15/20	EPA 6020B	
<b>Magnesium</b>	<b>782</b>	6.03		"	"	"	"	"	"	
<b>Sodium</b>	<b>1210</b>	6.03		"	"	"	"	"	"	

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**Reported:**  
05/19/20 15:08

**X2**  
**2005131-26 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 15:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.74	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 15:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.9		%	1	2005181	05/14/20	05/15/20	Calculation	
pH	8.00		pH Units	"	2005191	05/15/20	05/15/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 15:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.28	0.0100	mmhos/cm	1	2005192	05/15/20	05/15/20	EPA 120.1	

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Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**X3**  
**2005131-27 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 15:41**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	2005205	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **05/11/20 15:41**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		132 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		110 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %		21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 15:41**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	2005207	05/15/20	05/16/20	EPA 8015M	

Date Sampled: **05/11/20 15:41**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		103 %		30-150		"	"	"	"	

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

Date Sampled: **05/11/20 15:41**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>5580</b>	11.7		mg/kg dry	1	2005185	05/14/20	05/15/20	EPA 6020B	
Magnesium	<b>693</b>	5.86		"	"	"	"	"	"	
Sodium	<b>1550</b>	5.86		"	"	"	"	"	"	

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05/19/20 15:08

**X3**  
**2005131-27 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 15:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.21	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 15:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.3		%	1	2005181	05/14/20	05/15/20	Calculation	
pH	7.81		pH Units	"	2005191	05/15/20	05/15/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 15:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	7.68	0.0100	mmhos/cm	1	2005192	05/15/20	05/15/20	EPA 120.1	

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**Reported:**  
05/19/20 15:08

**AA1**  
**2005131-28 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 15:44**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	2005205	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **05/11/20 15:44**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		130 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		107 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %		21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 15:44**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	2005207	05/15/20	05/16/20	EPA 8015M	

Date Sampled: **05/11/20 15:44**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		93.5 %		30-150		"	"	"	"	

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

Date Sampled: **05/11/20 15:44**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Calcium</b>	<b>2350</b>	10.7		mg/kg dry	1	2005185	05/14/20	05/15/20	EPA 6020B	
<b>Magnesium</b>	<b>222</b>	5.34		"	"	"	"	"	"	
<b>Sodium</b>	<b>373</b>	5.34		"	"	"	"	"	"	

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**Reported:**  
05/19/20 15:08

**AA1**  
**2005131-28 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 15:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.97	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 15:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.6		%	1	2005181	05/14/20	05/15/20	Calculation	
pH	8.73		pH Units	"	2005191	05/15/20	05/15/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 15:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.24	0.0100	mmhos/cm	1	2005192	05/15/20	05/15/20	EPA 120.1	

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**Reported:**  
05/19/20 15:08

**AA2**  
**2005131-29 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 15:47**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005205	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 15:47**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		144 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		110 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 15:47**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005207	05/15/20	05/16/20	EPA 8015M	

Date Sampled: **05/11/20 15:47**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		77.6 %	30-150		"	"	"	"	

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

Date Sampled: **05/11/20 15:47**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>3120</b>	10.8	mg/kg dry	1	2005185	05/14/20	05/15/20	EPA 6020B	
<b>Magnesium</b>	<b>399</b>	5.41	"	"	"	"	"	"	
<b>Sodium</b>	<b>1020</b>	5.41	"	"	"	"	"	"	

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**Reported:**  
05/19/20 15:08

**AA2**  
**2005131-29 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 15:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.57	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 15:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.5		%	1	2005181	05/14/20	05/15/20	Calculation	
pH	8.39		pH Units	"	2005191	05/15/20	05/15/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 15:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.36	0.0100	mmhos/cm	1	2005192	05/15/20	05/15/20	EPA 120.1	

Summit Scientific

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Kleinfelder  
1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**AA3**  
**2005131-30 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 15:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	2005194	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **05/11/20 15:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		150 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		107 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %		21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 15:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	2005195	05/15/20	05/15/20	EPA 8015M	

Date Sampled: **05/11/20 15:50**

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

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

Date Sampled: **05/11/20 15:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Calcium</b>	<b>11000</b>	12.7		mg/kg dry	1	2005185	05/14/20	05/15/20	EPA 6020B	
<b>Magnesium</b>	<b>1180</b>	6.33		"	"	"	"	"	"	
<b>Sodium</b>	<b>817</b>	6.33		"	"	"	"	"	"	

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Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**AA3**  
**2005131-30 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 15:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>1.98</b>	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 15:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>79.0</b>		%	1	2005181	05/14/20	05/15/20	Calculation	
pH	<b>8.87</b>		pH Units	"	2005191	05/15/20	05/15/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 15:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>1.19</b>	0.0100	mmhos/cm	1	2005192	05/15/20	05/15/20	EPA 120.1	

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Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**CC1**  
**2005131-31 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 15:53**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005194	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 15:53**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		144 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		109 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 15:53**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005195	05/15/20	05/15/20	EPA 8015M	

Date Sampled: **05/11/20 15:53**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		108 %	30-150		"	"	"	"	

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

Date Sampled: **05/11/20 15:53**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>4280</b>	11.3	mg/kg dry	1	2005209	05/15/20	05/15/20	EPA 6020B	
<b>Magnesium</b>	<b>867</b>	5.63	"	"	"	"	"	"	
<b>Sodium</b>	<b>1360</b>	5.63	"	"	"	"	"	"	

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Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**CC1**  
**2005131-31 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 15:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.96	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 15:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.7		%	1	2005181	05/14/20	05/15/20	Calculation	
pH	8.01		pH Units	"	2005191	05/15/20	05/15/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 15:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.33	0.0100	mmhos/cm	1	2005192	05/15/20	05/15/20	EPA 120.1	

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Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**CC2**  
**2005131-32 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 15:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2005194	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 15:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		131 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		106 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 15:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2005195	05/15/20	05/15/20	EPA 8015M	

Date Sampled: **05/11/20 15:56**

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

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

Date Sampled: **05/11/20 15:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>8760</b>	13.0	mg/kg dry	1	2005209	05/15/20	05/15/20	EPA 6020B	
<b>Magnesium</b>	<b>1570</b>	6.49	"	"	"	"	"	"	
<b>Sodium</b>	<b>634</b>	6.49	"	"	"	"	"	"	

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**Reported:**  
05/19/20 15:08

**CC2**  
**2005131-32 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 15:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.64	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 15:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.1		%	1	2005181	05/14/20	05/15/20	Calculation	
pH	7.83		pH Units	"	2005191	05/15/20	05/15/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 15:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.37	0.0100	mmhos/cm	1	2005192	05/15/20	05/15/20	EPA 120.1	

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**Reported:**  
05/19/20 15:08

**CC3**  
**2005131-33 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 15:59**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005194	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 15:59**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		156 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		108 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 15:59**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005195	05/15/20	05/15/20	EPA 8015M	

Date Sampled: **05/11/20 15:59**

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

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

Date Sampled: **05/11/20 15:59**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>5130</b>	11.1	mg/kg dry	1	2005209	05/15/20	05/15/20	EPA 6020B	
<b>Magnesium</b>	<b>1240</b>	5.54	"	"	"	"	"	"	
<b>Sodium</b>	<b>1440</b>	5.54	"	"	"	"	"	"	

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**Reported:**  
05/19/20 15:08

**CC3**  
**2005131-33 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 15:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.68	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 15:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.2		%	1	2005181	05/14/20	05/15/20	Calculation	
pH	8.42		pH Units	"	2005191	05/15/20	05/15/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 15:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.64	0.0100	mmhos/cm	1	2005192	05/15/20	05/15/20	EPA 120.1	

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Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**EE1**  
**2005131-34 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 16:02**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	2005194	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **05/11/20 16:02**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		137 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		113 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %		21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 16:02**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	2005195	05/15/20	05/15/20	EPA 8015M	

Date Sampled: **05/11/20 16:02**

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

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

Date Sampled: **05/11/20 16:02**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Calcium</b>	<b>5210</b>	12.6		mg/kg dry	1	2005209	05/15/20	05/15/20	EPA 6020B	
<b>Magnesium</b>	<b>1210</b>	6.32		"	"	"	"	"	"	
<b>Sodium</b>	<b>515</b>	6.32		"	"	"	"	"	"	

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**Reported:**  
05/19/20 15:08

**EE1**  
**2005131-34 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 16:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.67	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 16:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.1		%	1	2005181	05/14/20	05/15/20	Calculation	
pH	8.77		pH Units	"	2005191	05/15/20	05/15/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 16:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.788	0.0100	mmhos/cm	1	2005192	05/15/20	05/15/20	EPA 120.1	

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**Reported:**  
05/19/20 15:08

**EE2**  
**2005131-35 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 16:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005194	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 16:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		148 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 16:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005195	05/15/20	05/16/20	EPA 8015M	

Date Sampled: **05/11/20 16:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		113 %	30-150		"	"	"	"	

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

Date Sampled: **05/11/20 16:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>7730</b>	12.2	mg/kg dry	1	2005209	05/15/20	05/15/20	EPA 6020B	
<b>Magnesium</b>	<b>1530</b>	6.11	"	"	"	"	"	"	
<b>Sodium</b>	<b>1160</b>	6.11	"	"	"	"	"	"	

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**Reported:**  
05/19/20 15:08

**EE2**  
**2005131-35 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 16:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.15	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 16:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.8		%	1	2005181	05/14/20	05/15/20	Calculation	
pH	8.28		pH Units	"	2005191	05/15/20	05/15/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 16:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.68	0.0100	mmhos/cm	1	2005192	05/15/20	05/15/20	EPA 120.1	

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1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**EE3**  
**2005131-36 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 16:08**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005194	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 16:08**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		125 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		106 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 16:08**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005195	05/15/20	05/16/20	EPA 8015M	

Date Sampled: **05/11/20 16:08**

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

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

Date Sampled: **05/11/20 16:08**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>5060</b>	11.6	mg/kg dry	1	2005209	05/15/20	05/15/20	EPA 6020B	
<b>Magnesium</b>	<b>866</b>	5.79	"	"	"	"	"	"	
<b>Sodium</b>	<b>773</b>	5.79	"	"	"	"	"	"	

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Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

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05/19/20 15:08

**EE3**  
**2005131-36 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 16:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.64	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 16:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.3		%	1	2005181	05/14/20	05/15/20	Calculation	
pH	8.96		pH Units	"	2005191	05/15/20	05/15/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 16:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.10	0.0100	mmhos/cm	1	2005192	05/15/20	05/15/20	EPA 120.1	

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Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**GG1**  
**2005131-37 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 16:11**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	2005194	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **05/11/20 16:11**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		143 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		109 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %		21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 16:11**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	2005195	05/15/20	05/16/20	EPA 8015M	

Date Sampled: **05/11/20 16:11**

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

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

Date Sampled: **05/11/20 16:11**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Calcium</b>	<b>4290</b>	11.8		mg/kg dry	1	2005209	05/15/20	05/15/20	EPA 6020B	
<b>Magnesium</b>	<b>696</b>	5.92		"	"	"	"	"	"	
<b>Sodium</b>	<b>686</b>	5.92		"	"	"	"	"	"	

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Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**GG1**  
**2005131-37 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 16:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.56	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 16:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.5		%	1	2005181	05/14/20	05/15/20	Calculation	
pH	8.86		pH Units	"	2005191	05/15/20	05/15/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 16:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.09	0.0100	mmhos/cm	1	2005192	05/15/20	05/15/20	EPA 120.1	

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Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**GG2**  
**2005131-38 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 16:14**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005194	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 16:14**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		132 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		107 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 16:14**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005195	05/15/20	05/16/20	EPA 8015M	

Date Sampled: **05/11/20 16:14**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		121 %	30-150		"	"	"	"	

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

Date Sampled: **05/11/20 16:14**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>8570</b>	12.7	mg/kg dry	1	2005209	05/15/20	05/15/20	EPA 6020B	
<b>Magnesium</b>	<b>1340</b>	6.36	"	"	"	"	"	"	
<b>Sodium</b>	<b>1100</b>	6.36	"	"	"	"	"	"	

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**Reported:**  
05/19/20 15:08

**GG2**  
**2005131-38 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 16:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.92	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 16:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.6		%	1	2005181	05/14/20	05/15/20	Calculation	
pH	8.22		pH Units	"	2005191	05/15/20	05/15/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 16:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.19	0.0100	mmhos/cm	1	2005192	05/15/20	05/15/20	EPA 120.1	

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Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**GG3**  
**2005131-39 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 16:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	2005194	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **05/11/20 16:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		143 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		107 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %		21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 16:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	2005195	05/15/20	05/16/20	EPA 8015M	

Date Sampled: **05/11/20 16:17**

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

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

Date Sampled: **05/11/20 16:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Calcium</b>	<b>6070</b>	12.9		mg/kg dry	1	2005209	05/15/20	05/15/20	EPA 6020B	
<b>Magnesium</b>	<b>1220</b>	6.47		"	"	"	"	"	"	
<b>Sodium</b>	<b>2640</b>	6.47		"	"	"	"	"	"	

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05/19/20 15:08

**GG3**  
**2005131-39 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 16:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.09	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 16:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.2		%	1	2005181	05/14/20	05/15/20	Calculation	
pH	7.62		pH Units	"	2005191	05/15/20	05/15/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 16:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	7.47	0.0100	mmhos/cm	1	2005192	05/15/20	05/15/20	EPA 120.1	

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**Reported:**  
05/19/20 15:08

**III**  
**2005131-40 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 16:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005194	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 16:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		157 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		109 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 16:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005195	05/15/20	05/16/20	EPA 8015M	

Date Sampled: **05/11/20 16:20**

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

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

Date Sampled: **05/11/20 16:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>7290</b>	11.7	mg/kg dry	1	2005209	05/15/20	05/15/20	EPA 6020B	
Magnesium	<b>1140</b>	5.85	"	"	"	"	"	"	
Sodium	<b>2910</b>	5.85	"	"	"	"	"	"	

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05/19/20 15:08

**III**  
**2005131-40 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 16:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.37	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 16:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.5		%	1	2005181	05/14/20	05/15/20	Calculation	
pH	8.72		pH Units	"	2005191	05/15/20	05/15/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 16:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.47	0.0100	mmhos/cm	1	2005192	05/15/20	05/15/20	EPA 120.1	

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Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**I12**  
**2005131-41 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 16:23**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005194	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 16:23**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		130 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		109 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.7 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 16:23**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005195	05/15/20	05/16/20	EPA 8015M	

Date Sampled: **05/11/20 16:23**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		113 %	30-150		"	"	"	"	

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

Date Sampled: **05/11/20 16:23**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>7320</b>	12.0	mg/kg dry	1	2005209	05/15/20	05/15/20	EPA 6020B	
<b>Magnesium</b>	<b>1150</b>	6.02	"	"	"	"	"	"	
<b>Sodium</b>	<b>1190</b>	6.02	"	"	"	"	"	"	

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Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**I12**  
**2005131-41 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 16:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.41	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 16:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.1		%	1	2005193	05/15/20	05/15/20	Calculation	
pH	8.84		pH Units	"	2005200	05/15/20	05/15/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 16:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.31	0.0100	mmhos/cm	1	2005201	05/15/20	05/15/20	EPA 120.1	

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Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**I13**  
**2005131-42 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 16:26**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005194	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 16:26**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		127 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 16:26**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005195	05/15/20	05/16/20	EPA 8015M	

Date Sampled: **05/11/20 16:26**

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

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

Date Sampled: **05/11/20 16:26**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>4840</b>	13.3	mg/kg dry	1	2005209	05/15/20	05/15/20	EPA 6020B	
<b>Magnesium</b>	<b>1400</b>	6.65	"	"	"	"	"	"	
<b>Sodium</b>	<b>2690</b>	6.65	"	"	"	"	"	"	

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Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**I13**  
**2005131-42 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 16:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>8.76</b>	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 16:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>75.2</b>		%	1	2005193	05/15/20	05/15/20	Calculation	
pH	<b>7.60</b>		pH Units	"	2005200	05/15/20	05/15/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 16:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>10.2</b>	0.0100	mmhos/cm	1	2005201	05/15/20	05/15/20	EPA 120.1	

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Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**KK1**  
**2005131-43 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 16:29**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005194	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 16:29**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		148 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 16:29**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005195	05/15/20	05/16/20	EPA 8015M	

Date Sampled: **05/11/20 16:29**

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

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

Date Sampled: **05/11/20 16:29**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>5060</b>	12.2	mg/kg dry	1	2005209	05/15/20	05/15/20	EPA 6020B	
<b>Magnesium</b>	<b>784</b>	6.09	"	"	"	"	"	"	
<b>Sodium</b>	<b>1100</b>	6.09	"	"	"	"	"	"	

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Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**KK1**  
**2005131-43 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 16:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.80	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 16:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.1		%	1	2005193	05/15/20	05/15/20	Calculation	
pH	9.24		pH Units	"	2005200	05/15/20	05/15/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 16:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.29	0.0100	mmhos/cm	1	2005201	05/15/20	05/15/20	EPA 120.1	

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Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**KK2**  
**2005131-44 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 16:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2005194	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 16:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		124 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		109 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 16:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2005195	05/15/20	05/16/20	EPA 8015M	

Date Sampled: **05/11/20 16:32**

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

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

Date Sampled: **05/11/20 16:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>9820</b>	13.0	mg/kg dry	1	2005209	05/15/20	05/15/20	EPA 6020B	
<b>Magnesium</b>	<b>1180</b>	6.48	"	"	"	"	"	"	
<b>Sodium</b>	<b>1550</b>	6.48	"	"	"	"	"	"	

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**Reported:**  
05/19/20 15:08

**KK2**  
**2005131-44 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 16:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.93	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 16:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.1		%	1	2005193	05/15/20	05/15/20	Calculation	
pH	8.50		pH Units	"	2005200	05/15/20	05/15/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 16:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.24	0.0100	mmhos/cm	1	2005201	05/15/20	05/15/20	EPA 120.1	

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**Reported:**  
05/19/20 15:08

**KK3**  
**2005131-45 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 16:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	2005194	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **05/11/20 16:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		155 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		107 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %		21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 16:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	2005195	05/15/20	05/16/20	EPA 8015M	

Date Sampled: **05/11/20 16:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		119 %		30-150		"	"	"	"	

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

Date Sampled: **05/11/20 16:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Calcium</b>	<b>3320</b>	11.6		mg/kg dry	1	2005209	05/15/20	05/15/20	EPA 6020B	
<b>Magnesium</b>	<b>565</b>	5.78		"	"	"	"	"	"	
<b>Sodium</b>	<b>1410</b>	5.78		"	"	"	"	"	"	

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**Reported:**  
05/19/20 15:08

**KK3**  
**2005131-45 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 16:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.95	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 16:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.5		%	1	2005193	05/15/20	05/15/20	Calculation	
pH	7.88		pH Units	"	2005200	05/15/20	05/15/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 16:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	6.06	0.0100	mmhos/cm	1	2005201	05/15/20	05/15/20	EPA 120.1	

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Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**OO1**  
**2005131-46 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 16:38**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005194	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 16:38**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		128 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		107 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 16:38**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005195	05/15/20	05/16/20	EPA 8015M	

Date Sampled: **05/11/20 16:38**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		119 %	30-150		"	"	"	"	

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

Date Sampled: **05/11/20 16:38**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>1170</b>	10.4	mg/kg dry	1	2005209	05/15/20	05/15/20	EPA 6020B	
<b>Magnesium</b>	<b>258</b>	5.21	"	"	"	"	"	"	
<b>Sodium</b>	<b>323</b>	5.21	"	"	"	"	"	"	

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**Reported:**  
05/19/20 15:08

**OO1**  
**2005131-46 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 16:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.23	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 16:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.0		%	1	2005193	05/15/20	05/15/20	Calculation	
pH	9.48		pH Units	"	2005200	05/15/20	05/15/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 16:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.700	0.0100	mmhos/cm	1	2005201	05/15/20	05/15/20	EPA 120.1	

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Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**OO2**  
**2005131-47 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 16:41**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005194	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 16:41**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		129 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		113 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.1 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 16:41**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005195	05/15/20	05/16/20	EPA 8015M	

Date Sampled: **05/11/20 16:41**

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

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

Date Sampled: **05/11/20 16:41**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>5080</b>	11.7	mg/kg dry	1	2005209	05/15/20	05/15/20	EPA 6020B	
Magnesium	<b>639</b>	5.83	"	"	"	"	"	"	
Sodium	<b>2520</b>	5.83	"	"	"	"	"	"	

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1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**OO2**  
**2005131-47 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 16:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.86	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 16:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.8		%	1	2005193	05/15/20	05/15/20	Calculation	
pH	8.32		pH Units	"	2005200	05/15/20	05/15/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 16:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	6.73	0.0100	mmhos/cm	1	2005201	05/15/20	05/15/20	EPA 120.1	

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Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**QQ1**  
**2005131-48 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 16:44**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005194	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 16:44**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		138 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		106 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.5 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 16:44**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005195	05/15/20	05/16/20	EPA 8015M	

Date Sampled: **05/11/20 16:44**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		116 %	30-150		"	"	"	"	

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

Date Sampled: **05/11/20 16:44**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>4240</b>	11.2	mg/kg dry	1	2005209	05/15/20	05/15/20	EPA 6020B	
<b>Magnesium</b>	<b>557</b>	5.60	"	"	"	"	"	"	
<b>Sodium</b>	<b>589</b>	5.60	"	"	"	"	"	"	

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**Reported:**  
05/19/20 15:08

**QQ1**  
**2005131-48 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 16:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.26	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 16:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.4		%	1	2005193	05/15/20	05/15/20	Calculation	
pH	8.77		pH Units	"	2005200	05/15/20	05/15/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 16:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.41	0.0100	mmhos/cm	1	2005201	05/15/20	05/15/20	EPA 120.1	

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Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**QQ2**  
**2005131-49 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/11/20 16:47**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005194	05/15/20	05/16/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/20 16:47**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		117 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.8 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/11/20 16:47**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005195	05/15/20	05/16/20	EPA 8015M	

Date Sampled: **05/11/20 16:47**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		123 %	30-150		"	"	"	"	

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

Date Sampled: **05/11/20 16:47**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>1940</b>	10.4	mg/kg dry	1	2005209	05/15/20	05/15/20	EPA 6020B	
<b>Magnesium</b>	<b>354</b>	5.21	"	"	"	"	"	"	
<b>Sodium</b>	<b>1020</b>	5.21	"	"	"	"	"	"	

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**Reported:**  
05/19/20 15:08

**QQ2**  
**2005131-49 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **05/11/20 16:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.59	0.100	units	1	2005219	05/18/20	05/18/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/11/20 16:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.0		%	1	2005193	05/15/20	05/15/20	Calculation	
pH	8.74		pH Units	"	2005200	05/15/20	05/15/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **05/11/20 16:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.63	0.0100	mmhos/cm	1	2005201	05/15/20	05/15/20	EPA 120.1	

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Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**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 2005194 - EPA 5030 Soil MS**

**Blank (2005194-BLK1)**

Prepared: 05/15/20 Analyzed: 05/16/20

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0515		"	0.0400		129	23-173			
Surrogate: Toluene-d8	0.0445		"	0.0400		111	20-170			
Surrogate: 4-Bromofluorobenzene	0.0436		"	0.0400		109	21-167			

**LCS (2005194-BS1)**

Prepared: 05/15/20 Analyzed: 05/16/20

Benzene	0.0850	0.0020	mg/kg	0.100		85.0	70-130			
Toluene	0.102	0.0050	"	0.100		102	70-130			
Ethylbenzene	0.109	0.0050	"	0.100		109	70-130			
m,p-Xylene	0.201	0.010	"	0.200		100	70-130			
o-Xylene	0.0999	0.0050	"	0.100		99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0474		"	0.0400		118	23-173			
Surrogate: Toluene-d8	0.0433		"	0.0400		108	20-170			
Surrogate: 4-Bromofluorobenzene	0.0444		"	0.0400		111	21-167			

**Matrix Spike (2005194-MS1)**

Source: 2005131-30

Prepared: 05/15/20 Analyzed: 05/16/20

Benzene	0.0868	0.0020	mg/kg	0.100	ND	86.8	70-130			
Toluene	0.0920	0.0050	"	0.100	ND	92.0	70-130			
Ethylbenzene	0.108	0.0050	"	0.100	ND	108	70-130			
m,p-Xylene	0.198	0.010	"	0.200	ND	99.2	70-130			
o-Xylene	0.0981	0.0050	"	0.100	ND	98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0489		"	0.0400		122	23-173			
Surrogate: Toluene-d8	0.0411		"	0.0400		103	20-170			
Surrogate: 4-Bromofluorobenzene	0.0431		"	0.0400		108	21-167			

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Project Manager: Vince DeCianne

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05/19/20 15:08

**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 2005194 - EPA 5030 Soil MS**

**Matrix Spike Dup (2005194-MSD1)**

Source: 2005131-30

Prepared: 05/15/20 Analyzed: 05/16/20

Benzene	0.0835	0.0020	mg/kg	0.100	ND	83.5	70-130	3.95	30	
Toluene	0.0867	0.0050	"	0.100	ND	86.7	70-130	6.01	30	
Ethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130	6.18	30	
m,p-Xylene	0.188	0.010	"	0.200	ND	94.1	70-130	5.32	30	
o-Xylene	0.0948	0.0050	"	0.100	ND	94.8	70-130	3.39	30	
Surrogate: 1,2-Dichloroethane-d4	0.0484		"	0.0400		121	23-173			
Surrogate: Toluene-d8	0.0409		"	0.0400		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0420		"	0.0400		105	21-167			

**Batch 2005205 - EPA 5030 Soil MS**

**Blank (2005205-BLK1)**

Prepared & Analyzed: 05/15/20

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0524		"	0.0400		131	23-173			
Surrogate: Toluene-d8	0.0439		"	0.0400		110	20-170			
Surrogate: 4-Bromofluorobenzene	0.0435		"	0.0400		109	21-167			

**LCS (2005205-BS1)**

Prepared & Analyzed: 05/15/20

Benzene	0.0839	0.0020	mg/kg	0.100		83.9	70-130			
Toluene	0.0996	0.0050	"	0.100		99.6	70-130			
Ethylbenzene	0.108	0.0050	"	0.100		108	70-130			
m,p-Xylene	0.199	0.010	"	0.200		99.4	70-130			
o-Xylene	0.0966	0.0050	"	0.100		96.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0484		"	0.0400		121	23-173			
Surrogate: Toluene-d8	0.0440		"	0.0400		110	20-170			
Surrogate: 4-Bromofluorobenzene	0.0423		"	0.0400		106	21-167			

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05/19/20 15:08

**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 2005205 - EPA 5030 Soil MS**

<b>Matrix Spike (2005205-MS1)</b>	<b>Source: 2005131-10</b>			<b>Prepared &amp; Analyzed: 05/15/20</b>						
Benzene	0.0902	0.0020	mg/kg	0.100	ND	90.2	70-130			
Toluene	0.0995	0.0050	"	0.100	ND	99.5	70-130			
Ethylbenzene	0.112	0.0050	"	0.100	ND	112	70-130			
m,p-Xylene	0.205	0.010	"	0.200	ND	103	70-130			
o-Xylene	0.103	0.0050	"	0.100	ND	103	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0493</i>		<i>"</i>	<i>0.0400</i>		<i>123</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0411</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0430</i>		<i>"</i>	<i>0.0400</i>		<i>108</i>	<i>21-167</i>			

<b>Matrix Spike Dup (2005205-MSD1)</b>	<b>Source: 2005131-10</b>			<b>Prepared &amp; Analyzed: 05/15/20</b>						
Benzene	0.0887	0.0020	mg/kg	0.100	ND	88.7	70-130	1.64	30	
Toluene	0.0912	0.0050	"	0.100	ND	91.2	70-130	8.68	30	
Ethylbenzene	0.109	0.0050	"	0.100	ND	109	70-130	2.28	30	
m,p-Xylene	0.206	0.010	"	0.200	ND	103	70-130	0.0146	30	
o-Xylene	0.102	0.0050	"	0.100	ND	102	70-130	1.23	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0488</i>		<i>"</i>	<i>0.0400</i>		<i>122</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0410</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0420</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>21-167</i>			

**Batch 2005206 - EPA 5030 Soil MS**

<b>Blank (2005206-BLK1)</b>	<b>Prepared &amp; Analyzed: 05/15/20</b>									
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0500</i>		<i>"</i>	<i>0.0400</i>		<i>125</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0452</i>		<i>"</i>	<i>0.0400</i>		<i>113</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0445</i>		<i>"</i>	<i>0.0400</i>		<i>111</i>	<i>21-167</i>			

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Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**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 2005206 - EPA 5030 Soil MS**

**LCS (2005206-BS1)**

Prepared & Analyzed: 05/15/20

Benzene	0.0915	0.0020	mg/kg	0.100		91.5	70-130			
Toluene	0.103	0.0050	"	0.100		103	70-130			
Ethylbenzene	0.114	0.0050	"	0.100		114	70-130			
m,p-Xylene	0.210	0.010	"	0.200		105	70-130			
o-Xylene	0.103	0.0050	"	0.100		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0485		"	0.0400		121	23-173			
Surrogate: Toluene-d8	0.0437		"	0.0400		109	20-170			
Surrogate: 4-Bromofluorobenzene	0.0440		"	0.0400		110	21-167			

**Matrix Spike (2005206-MS1)**

Source: 2005131-01

Prepared & Analyzed: 05/15/20

Benzene	0.0868	0.0020	mg/kg	0.100	ND	86.8	70-130			
Toluene	0.0967	0.0050	"	0.100	ND	96.7	70-130			
Ethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130			
m,p-Xylene	0.195	0.010	"	0.200	ND	97.6	70-130			
o-Xylene	0.0955	0.0050	"	0.100	ND	95.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0454		"	0.0400		114	23-173			
Surrogate: Toluene-d8	0.0421		"	0.0400		105	20-170			
Surrogate: 4-Bromofluorobenzene	0.0408		"	0.0400		102	21-167			

**Matrix Spike Dup (2005206-MSD1)**

Source: 2005131-01

Prepared & Analyzed: 05/15/20

Benzene	0.0901	0.0020	mg/kg	0.100	ND	90.1	70-130	3.70	30	
Toluene	0.0971	0.0050	"	0.100	ND	97.1	70-130	0.434	30	
Ethylbenzene	0.114	0.0050	"	0.100	ND	114	70-130	8.21	30	
m,p-Xylene	0.212	0.010	"	0.200	ND	106	70-130	8.31	30	
o-Xylene	0.104	0.0050	"	0.100	ND	104	70-130	8.20	30	
Surrogate: 1,2-Dichloroethane-d4	0.0485		"	0.0400		121	23-173			
Surrogate: Toluene-d8	0.0415		"	0.0400		104	20-170			
Surrogate: 4-Bromofluorobenzene	0.0424		"	0.0400		106	21-167			

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Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

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

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

**Batch 2005195 - EPA 3550A**

<b>Blank (2005195-BLK1)</b>				Prepared & Analyzed: 05/15/20						
C10-C28 (DRO)	ND	50	mg/kg							
<b>LCS (2005195-BS1)</b>				Prepared & Analyzed: 05/15/20						
C10-C28 (DRO)	513	50	mg/kg	500	103	70-130				
<b>Matrix Spike (2005195-MS1)</b>				Source: 2005131-30		Prepared & Analyzed: 05/15/20				
C10-C28 (DRO)	478	50	mg/kg	500	17.6	92.0	70-130			
<b>Matrix Spike Dup (2005195-MSD1)</b>				Source: 2005131-30		Prepared & Analyzed: 05/15/20				
C10-C28 (DRO)	476	50	mg/kg	500	17.6	91.7	70-130	0.360	20	

**Batch 2005207 - EPA 3550A**

<b>Blank (2005207-BLK1)</b>				Prepared & Analyzed: 05/15/20						
C10-C28 (DRO)	ND	50	mg/kg							
<b>LCS (2005207-BS1)</b>				Prepared & Analyzed: 05/15/20						
C10-C28 (DRO)	442	50	mg/kg	500	88.5	70-130				
<b>Matrix Spike (2005207-MS1)</b>				Source: 2005131-10		Prepared & Analyzed: 05/15/20				
C10-C28 (DRO)	457	50	mg/kg	500	20.6	87.3	70-130			
<b>Matrix Spike Dup (2005207-MSD1)</b>				Source: 2005131-10		Prepared & Analyzed: 05/15/20				
C10-C28 (DRO)	438	50	mg/kg	500	20.6	83.4	70-130	4.35	20	

**Batch 2005208 - EPA 3550A**

<b>Blank (2005208-BLK1)</b>				Prepared: 05/15/20 Analyzed: 05/16/20						
C10-C28 (DRO)	ND	50	mg/kg							

Summit Scientific

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Kleinfelder  
1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**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 2005208 - EPA 3550A**

**LCS (2005208-BS1)**

Prepared: 05/15/20 Analyzed: 05/16/20

C10-C28 (DRO)	511	50	mg/kg	500		102	70-130			
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**Matrix Spike (2005208-MS1)**

Source: 2005131-01

Prepared: 05/15/20 Analyzed: 05/16/20

C10-C28 (DRO)	532	50	mg/kg	500	85.5	89.3	70-130			
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**Matrix Spike Dup (2005208-MSD1)**

Source: 2005131-01

Prepared: 05/15/20 Analyzed: 05/16/20

C10-C28 (DRO)	532	50	mg/kg	500	85.5	89.3	70-130	0.00601	20	
---------------	-----	----	-------	-----	------	------	--------	---------	----	--

Summit Scientific

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Kleinfelder  
1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

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

**Summit Scientific**

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

**Batch 2005162 - General Preparation**

**Blank (2005162-BLK1)**

Prepared & Analyzed: 05/13/20

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

**LCS (2005162-BS1)**

Prepared & Analyzed: 05/13/20

Calcium	522	10.0	mg/kg wet	500		104	70-130		
Magnesium	527	5.00	"	500		105	70-130		
Sodium	499	5.00	"	500		99.8	70-130		

**Duplicate (2005162-DUP1)**

Source: 2005131-01

Prepared & Analyzed: 05/13/20

Calcium	2830	10.9	mg/kg dry		2620			7.57	20
Magnesium	1590	5.44	"		1300			19.7	20
Sodium	2040	5.44	"		2130			3.99	20

**Matrix Spike (2005162-MS1)**

Source: 2005131-01

Prepared & Analyzed: 05/13/20

Calcium	3280	10.9	mg/kg dry	544	2620	122	70-130		
Magnesium	1910	5.44	"	544	1300	112	70-130		
Sodium	2620	5.44	"	544	2130	90.6	70-130		

**Matrix Spike Dup (2005162-MSD1)**

Source: 2005131-01

Prepared & Analyzed: 05/13/20

Calcium	3320	10.9	mg/kg dry	544	2620	128	70-130	1.00	25
Magnesium	1950	5.44	"	544	1300	118	70-130	1.59	25
Sodium	2600	5.44	"	544	2130	86.3	70-130	0.903	25

**Batch 2005185 - General Preparation**

**Blank (2005185-BLK1)**

Prepared & Analyzed: 05/14/20

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

Summit Scientific

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Kleinfelder  
1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

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

**Summit Scientific**

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

**Batch 2005185 - General Preparation**

**LCS (2005185-BS1)**

Prepared & Analyzed: 05/14/20

Calcium	504	10.0	mg/kg wet	500		101	70-130		
Magnesium	541	5.00	"	500		108	70-130		
Sodium	539	5.00	"	500		108	70-130		

**Duplicate (2005185-DUP1)**

Source: 2005131-16

Prepared & Analyzed: 05/14/20

Calcium	9150	12.7	mg/kg dry		9230			0.882	20
Magnesium	1020	6.34	"		1040			2.07	20
Sodium	588	6.34	"		572			2.62	20

**Matrix Spike (2005185-MS1)**

Source: 2005131-16

Prepared: 05/14/20 Analyzed: 05/15/20

Calcium	9940	12.7	mg/kg dry	634	9230	111	70-130		
Magnesium	1590	6.34	"	634	1040	86.9	70-130		
Sodium	1220	6.34	"	634	572	102	70-130		

**Matrix Spike Dup (2005185-MSD1)**

Source: 2005131-16

Prepared: 05/14/20 Analyzed: 05/15/20

Calcium	9840	12.7	mg/kg dry	634	9230	95.3	70-130	1.03	25
Magnesium	1570	6.34	"	634	1040	83.6	70-130	1.31	25
Sodium	1200	6.34	"	634	572	99.5	70-130	1.20	25

**Batch 2005209 - General Preparation**

**Blank (2005209-BLK1)**

Prepared & Analyzed: 05/15/20

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

**LCS (2005209-BS1)**

Prepared & Analyzed: 05/15/20

Calcium	526	10.0	mg/kg wet	500		105	70-130		
Magnesium	586	5.00	"	500		117	70-130		
Sodium	553	5.00	"	500		111	70-130		

Summit Scientific

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Kleinfelder  
1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

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

**Summit Scientific**

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

**Batch 2005209 - General Preparation**

**Duplicate (2005209-DUP1)**

Source: 2005131-31

Prepared & Analyzed: 05/15/20

Calcium	4600	11.3	mg/kg dry	563	4280	75.7	70-130	0.397	25
Magnesium	852	5.63	"	563	867	92.4	70-130	0.808	25
Sodium	1450	5.63	"	563	1360	103	70-130	6.17	25

**Matrix Spike (2005209-MS1)**

Source: 2005131-31

Prepared & Analyzed: 05/15/20

Calcium	4710	11.3	mg/kg dry	563	4280	75.7	70-130	0.397	25
Magnesium	1400	5.63	"	563	867	92.4	70-130	0.808	25
Sodium	2070	5.63	"	563	1360	103	70-130	6.17	25

**Matrix Spike Dup (2005209-MSD1)**

Source: 2005131-31

Prepared & Analyzed: 05/15/20

Calcium	4690	11.3	mg/kg dry	563	4280	72.4	70-130	0.397	25
Magnesium	1390	5.63	"	563	867	92.4	70-130	0.808	25
Sodium	1950	5.63	"	563	1360	103	70-130	6.17	25

Summit Scientific

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Kleinfelder  
1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

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

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

**Batch 2005167 - General Preparation**

<b>LCS (2005167-BS1)</b>											
											Prepared & Analyzed: 05/14/20
pH	9.21		pH Units	9.18		100	95-105				
<b>Duplicate (2005167-DUP1)</b>											
											Source: 2005131-01
											Prepared & Analyzed: 05/14/20
pH	8.56		pH Units	8.49				0.821	20		

**Batch 2005169 - General Preparation**

<b>Duplicate (2005169-DUP1)</b>											
											Source: 2005131-01
											Prepared & Analyzed: 05/14/20
% Solids	92.4		%	92.0				0.437	20		

**Batch 2005181 - General Preparation**

<b>Duplicate (2005181-DUP1)</b>											
											Source: 2005131-21
											Prepared: 05/14/20 Analyzed: 05/15/20
% Solids	82.0		%	81.7				0.376	20		

**Batch 2005191 - General Preparation**

<b>LCS (2005191-BS1)</b>											
											Prepared & Analyzed: 05/15/20
pH	9.21		pH Units	9.18		100	95-105				
<b>Duplicate (2005191-DUP1)</b>											
											Source: 2005131-40
											Prepared & Analyzed: 05/15/20
pH	8.64		pH Units	8.72				0.922	20		

**Batch 2005193 - General Preparation**

<b>Duplicate (2005193-DUP1)</b>											
											Source: 2005131-41
											Prepared & Analyzed: 05/15/20
% Solids	82.9		%	83.1				0.242	20		

Summit Scientific

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Kleinfelder  
 1801 California Street, Suite 1100  
 Denver CO, 80202

Project: Razor 25B Cleanup  
 Project Number: 20203406 Task 5  
 Project Manager: Vince DeCianne

**Reported:**  
 05/19/20 15:08

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

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

**Batch 2005200 - General Preparation**

**LCS (2005200-BS1)**

Prepared & Analyzed: 05/15/20

pH	9.21	pH Units	9.18	100	95-105
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**Duplicate (2005200-DUP1)**

Source: 2005131-41

Prepared & Analyzed: 05/15/20

pH	8.89	pH Units	8.84	0.564	20
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Summit Scientific

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Kleinfelder  
1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

**Specific Conductance by EPA Method 120.1 - Quality Control**  
**Summit Scientific**

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

**Batch 2005168 - General Preparation**

<b>Blank (2005168-BLK1)</b>		Prepared & Analyzed: 05/14/20								
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
<b>LCS (2005168-BS1)</b>		Prepared & Analyzed: 05/14/20								
Specific Conductance (EC)	0.744	0.0100	mmhos/cm	0.750		99.1	90-110			
<b>Duplicate (2005168-DUP1)</b>		<b>Source: 2005131-20</b>		Prepared & Analyzed: 05/14/20						
Specific Conductance (EC)	5.54	0.0100	mmhos/cm		6.54			16.6	20	

**Batch 2005192 - General Preparation**

<b>Blank (2005192-BLK1)</b>		Prepared & Analyzed: 05/15/20								
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
<b>LCS (2005192-BS1)</b>		Prepared & Analyzed: 05/15/20								
Specific Conductance (EC)	0.770	0.0100	mmhos/cm	0.750		103	90-110			
<b>Duplicate (2005192-DUP1)</b>		<b>Source: 2005131-40</b>		Prepared & Analyzed: 05/15/20						
Specific Conductance (EC)	4.45	0.0100	mmhos/cm		4.47			0.404	20	

**Batch 2005201 - General Preparation**

<b>Blank (2005201-BLK1)</b>		Prepared & Analyzed: 05/15/20								
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
<b>LCS (2005201-BS1)</b>		Prepared & Analyzed: 05/15/20								
Specific Conductance (EC)	0.770	0.0100	mmhos/cm	0.750		103	90-110			

Summit Scientific

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Kleinfelder  
 1801 California Street, Suite 1100  
 Denver CO, 80202

Project: Razor 25B Cleanup  
 Project Number: 20203406 Task 5  
 Project Manager: Vince DeCianne

**Reported:**  
 05/19/20 15:08

**Specific Conductance by EPA Method 120.1 - Quality Control**

**Summit Scientific**

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

**Batch 2005201 - General Preparation**

**Duplicate (2005201-DUP1)**

**Source: 2005131-41**

Prepared & Analyzed: 05/15/20

Specific Conductance (EC)	1.33	0.0100	mmhos/cm		1.31			0.871		20	
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Summit Scientific

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Kleinfelder  
1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
05/19/20 15:08

### 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

**APPENDIX D**  
**SOIL ANALYTICAL REPORT – JUNE 3, 2020**

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# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

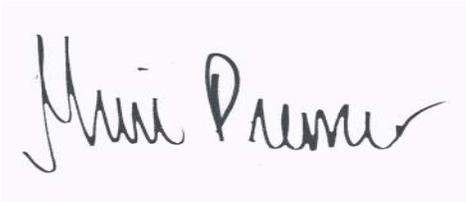
303.277.9310

June 09, 2020

Vince DeCianne  
Kleinfelder  
1801 California Street, Suite 1100  
Denver, CO 80202  
RE: Razor 25B Cleanup  
Work Order #2006046

Enclosed are the results of analyses for samples received by Summit Scientific on 06/03/20 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Muri Premer For Paul Shrewsbury  
President



Kleinfelder  
1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
06/09/20 16:23

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
D1	2006046-01	Soil	06/03/20 11:10	06/03/20 16:45
D2	2006046-02	Soil	06/03/20 11:15	06/03/20 16:45
H1	2006046-03	Soil	06/03/20 12:10	06/03/20 16:45
J2	2006046-04	Soil	06/03/20 12:15	06/03/20 16:45
L2	2006046-05	Soil	06/03/20 12:20	06/03/20 16:45
O2	2006046-06	Soil	06/03/20 12:25	06/03/20 16:45
O3	2006046-07	Soil	06/03/20 12:30	06/03/20 16:45
P1	2006046-08	Soil	06/03/20 12:35	06/03/20 16:45
P2	2006046-09	Soil	06/03/20 12:40	06/03/20 16:45
X2	2006046-10	Soil	06/03/20 12:55	06/03/20 16:45
X3	2006046-11	Soil	06/03/20 13:00	06/03/20 16:45
CC1	2006046-12	Soil	06/03/20 13:05	06/03/20 16:45
CC2	2006046-13	Soil	06/03/20 13:10	06/03/20 16:45
GG3	2006046-14	Soil	06/03/20 13:15	06/03/20 16:45
II1	2006046-15	Soil	06/03/20 13:20	06/03/20 16:45
II3	2006046-16	Soil	06/03/20 13:25	06/03/20 16:45
KK1	2006046-17	Soil	06/03/20 13:30	06/03/20 16:45
KK3	2006046-18	Soil	06/03/20 13:35	06/03/20 16:45
OO1	2006046-19	Soil	06/03/20 13:40	06/03/20 16:45
OO2	2006046-20	Soil	06/03/20 13:45	06/03/20 16:45

Summit Scientific

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# Summit Scientific

S<sub>2</sub>

2006046.1

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

Page 1 of 2

Client: Kleinfelder Project Manager: Vince DeCigagne  
 Address: 1801 California Street, Suite 1100 E-Mail: jveith@kleinfelder.com  
 City/State/Zip: Denver, CO 80202 kyle.waggoner@whiting.com  
 Phone: 970-309-6553 Project Name: Razor 25-B Cleanup  
 Sampler Name: Jordan Veith Project Number: 20203406 Task 5

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	EC						
1	D1	6/3/2020	1110	1			X			X			X						
2	D2		1115	1			X			X			X						
3	H1		1210	1			X			X			X						
4	J2		1215	1			X			X			X						
5	L2		1220	1			X			X			X						
6	O2		1225	1			X			X			X						
7	O3		1230	1			X			X			X						
8	P1		1235	1			X			X			X						
9	P2		1240	1			X			X			X						
10	X2		1255	1			X			X			X						

Relinquished by: <u>Jordan Veith</u>	Date/Time: <u>6/3/2020 1645</u>	Received by: <u>[Signature]</u>	Date/Time: <u>6-3-2020 1645</u>	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/> Sample Integrity: Temperature Upon Receipt: <u>4.3°</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:		

# Summit Scientific

S<sub>2</sub>

2006046.2

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 2 of 2

Kleinfelder

Client: Same as page 1

Project Manager:

Address:

E-Mail:

City/State/Zip:

Phone:

Project Name:

Sampler Name:

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	EC	pH							
1	X3	6/3/2020	1300	1			X			X				X							
2	CC1		1305	1			X			X				X							
3	CC2		1310	1			X			X				X							
4	GG3		1315	1			X			X				X							
5	II 1		1320	1			X			X				X							
6	<del>II 1</del> II 3		1325	1			X			X				X							
7	KK 1		1330	1			X			X				X	X						
8	KK 3		1335	1			X			X				X							
9	OO 1		1340	1			X			X				X	X						
10	OO 2		1345	1			X			X				X							

Relinquished by: <u>Jordan Keith</u>	Date/Time: <u>6/3/2020 1645</u>	Received by: <u>[Signature]</u>	Date/Time: <u>6-3-2020 1645</u>	<b>Turn Around Time</b> (Check) Same Day ___ 72 hours 24 hours ___ Standard <u>X</u> 48 hours ___ <b>Sample Integrity:</b> <u>4.3</u> Temperature Upon Receipt: ___ Samples Intact: <u>(Yes)</u> No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

Sample Receipt Checklist

S2 Work Order 2006046

Client: Kleinfelder Client Project ID: Razor 2S-B Cleanup

Shipped Via: (H.D.) P.U./FedEx/UPS/USPS/Other Airbill #: \_\_\_\_\_

Matrix (check all that apply):  Air  Soil/Solid  Water  Other: \_\_\_\_\_ (Describe)

Temp (°C) 4.3°

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ice
NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.				
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact <sup>(1)</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect				
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any): ,				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

AT  
Custodian Printed Name or Initials

[Signature]  
Signature of Custodian

6-3-2020  
Date/Time



Kleinfelder  
 1801 California Street, Suite 1100  
 Denver CO, 80202

Project: Razor 25B Cleanup  
 Project Number: 20203406 Task 5  
 Project Manager: Vince DeCianne

**Reported:**  
 06/09/20 16:23

**D1**  
**2006046-01 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/03/20 11:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	<b>6.98</b>	0.0100	mmhos/cm	1	2006079	06/05/20	06/05/20	EPA 120.1	

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.*



Kleinfelder  
 1801 California Street, Suite 1100  
 Denver CO, 80202

Project: Razor 25B Cleanup  
 Project Number: 20203406 Task 5  
 Project Manager: Vince DeCianne

**Reported:**  
 06/09/20 16:23

**D2**  
**2006046-02 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/03/20 11:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	1.23	0.0100	mmhos/cm	1	2006079	06/05/20	06/05/20	EPA 120.1	

Summit Scientific



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Kleinfelder  
 1801 California Street, Suite 1100  
 Denver CO, 80202

Project: Razor 25B Cleanup  
 Project Number: 20203406 Task 5  
 Project Manager: Vince DeCianne

**Reported:**  
 06/09/20 16:23

**H1**  
**2006046-03 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/03/20 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	<b>1.08</b>	0.0100	mmhos/cm	1	2006079	06/05/20	06/05/20	EPA 120.1	

Summit Scientific



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Kleinfelder  
 1801 California Street, Suite 1100  
 Denver CO, 80202

Project: Razor 25B Cleanup  
 Project Number: 20203406 Task 5  
 Project Manager: Vince DeCianne

**Reported:**  
 06/09/20 16:23

**J2**  
**2006046-04 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/03/20 12:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	4.34	0.0100	mmhos/cm	1	2006079	06/05/20	06/05/20	EPA 120.1	

Summit Scientific



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Kleinfelder  
 1801 California Street, Suite 1100  
 Denver CO, 80202

Project: Razor 25B Cleanup  
 Project Number: 20203406 Task 5  
 Project Manager: Vince DeCianne

**Reported:**  
 06/09/20 16:23

**L2**  
**2006046-05 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/03/20 12:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	2.31	0.0100	mmhos/cm	1	2006079	06/05/20	06/05/20	EPA 120.1	

Summit Scientific



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Kleinfelder  
 1801 California Street, Suite 1100  
 Denver CO, 80202

Project: Razor 25B Cleanup  
 Project Number: 20203406 Task 5  
 Project Manager: Vince DeCianne

**Reported:**  
 06/09/20 16:23

**O2**  
**2006046-06 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/03/20 12:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	3.35	0.0100	mmhos/cm	1	2006079	06/05/20	06/05/20	EPA 120.1	

Summit Scientific



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Kleinfelder  
 1801 California Street, Suite 1100  
 Denver CO, 80202

Project: Razor 25B Cleanup  
 Project Number: 20203406 Task 5  
 Project Manager: Vince DeCianne

**Reported:**  
 06/09/20 16:23

**O3**

**2006046-07 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/03/20 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	3.87	0.0100	mmhos/cm	1	2006079	06/05/20	06/05/20	EPA 120.1	

Summit Scientific



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Kleinfelder  
 1801 California Street, Suite 1100  
 Denver CO, 80202

Project: Razor 25B Cleanup  
 Project Number: 20203406 Task 5  
 Project Manager: Vince DeCianne

**Reported:**  
 06/09/20 16:23

**P1**  
**2006046-08 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/03/20 12:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	<b>2.14</b>	0.0100	mmhos/cm	1	2006079	06/05/20	06/05/20	EPA 120.1	

Summit Scientific



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Kleinfelder  
 1801 California Street, Suite 1100  
 Denver CO, 80202

Project: Razor 25B Cleanup  
 Project Number: 20203406 Task 5  
 Project Manager: Vince DeCianne

**Reported:**  
 06/09/20 16:23

**P2**  
**2006046-09 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/03/20 12:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	<b>0.732</b>	0.0100	mmhos/cm	1	2006079	06/05/20	06/05/20	EPA 120.1	

Summit Scientific



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Kleinfelder  
 1801 California Street, Suite 1100  
 Denver CO, 80202

Project: Razor 25B Cleanup  
 Project Number: 20203406 Task 5  
 Project Manager: Vince DeCianne

**Reported:**  
 06/09/20 16:23

**X2**  
**2006046-10 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/03/20 12:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	<b>3.90</b>	0.0100	mmhos/cm	1	2006079	06/05/20	06/05/20	EPA 120.1	

Summit Scientific



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Kleinfelder  
 1801 California Street, Suite 1100  
 Denver CO, 80202

Project: Razor 25B Cleanup  
 Project Number: 20203406 Task 5  
 Project Manager: Vince DeCianne

**Reported:**  
 06/09/20 16:23

**X3**  
**2006046-11 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/03/20 13:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	4.95	0.0100	mmhos/cm	1	2006079	06/05/20	06/05/20	EPA 120.1	

Summit Scientific



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Kleinfelder  
 1801 California Street, Suite 1100  
 Denver CO, 80202

Project: Razor 25B Cleanup  
 Project Number: 20203406 Task 5  
 Project Manager: Vince DeCianne

**Reported:**  
 06/09/20 16:23

**CC1**  
**2006046-12 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/03/20 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	3.74	0.0100	mmhos/cm	1	2006079	06/05/20	06/05/20	EPA 120.1	

Summit Scientific



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Kleinfelder  
 1801 California Street, Suite 1100  
 Denver CO, 80202

Project: Razor 25B Cleanup  
 Project Number: 20203406 Task 5  
 Project Manager: Vince DeCianne

**Reported:**  
 06/09/20 16:23

**CC2**  
**2006046-13 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/03/20 13:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	<b>6.88</b>	0.0100	mmhos/cm	1	2006079	06/05/20	06/05/20	EPA 120.1	

Summit Scientific



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Kleinfelder  
 1801 California Street, Suite 1100  
 Denver CO, 80202

Project: Razor 25B Cleanup  
 Project Number: 20203406 Task 5  
 Project Manager: Vince DeCianne

**Reported:**  
 06/09/20 16:23

**GG3**  
**2006046-14 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/03/20 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	<b>0.832</b>	0.0100	mmhos/cm	1	2006079	06/05/20	06/05/20	EPA 120.1	

Summit Scientific



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Kleinfelder  
 1801 California Street, Suite 1100  
 Denver CO, 80202

Project: Razor 25B Cleanup  
 Project Number: 20203406 Task 5  
 Project Manager: Vince DeCianne

**Reported:**  
 06/09/20 16:23

**III**  
**2006046-15 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/03/20 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	2.76	0.0100	mmhos/cm	1	2006079	06/05/20	06/05/20	EPA 120.1	

Summit Scientific



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Kleinfelder  
 1801 California Street, Suite 1100  
 Denver CO, 80202

Project: Razor 25B Cleanup  
 Project Number: 20203406 Task 5  
 Project Manager: Vince DeCianne

**Reported:**  
 06/09/20 16:23

**I13**  
**2006046-16 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/03/20 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	<b>1.05</b>	0.0100	mmhos/cm	1	2006079	06/05/20	06/05/20	EPA 120.1	

Summit Scientific



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Kleinfelder  
 1801 California Street, Suite 1100  
 Denver CO, 80202

Project: Razor 25B Cleanup  
 Project Number: 20203406 Task 5  
 Project Manager: Vince DeCianne

**Reported:**  
 06/09/20 16:23

**KK1**  
**2006046-17 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **06/03/20 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.47</b>		pH Units	1	2006063	06/04/20	06/04/20	EPA 9045D	

Summit Scientific



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Kleinfelder  
 1801 California Street, Suite 1100  
 Denver CO, 80202

Project: Razor 25B Cleanup  
 Project Number: 20203406 Task 5  
 Project Manager: Vince DeCianne

**Reported:**  
 06/09/20 16:23

**KK3**  
**2006046-18 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/03/20 13:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	<b>0.845</b>	0.0100	mmhos/cm	1	2006079	06/05/20	06/05/20	EPA 120.1	

Summit Scientific



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Kleinfelder  
 1801 California Street, Suite 1100  
 Denver CO, 80202

Project: Razor 25B Cleanup  
 Project Number: 20203406 Task 5  
 Project Manager: Vince DeCianne

**Reported:**  
 06/09/20 16:23

**OO1**  
**2006046-19 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **06/03/20 13:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.10</b>		pH Units	1	2006063	06/04/20	06/04/20	EPA 9045D	

Summit Scientific

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Kleinfelder  
 1801 California Street, Suite 1100  
 Denver CO, 80202

Project: Razor 25B Cleanup  
 Project Number: 20203406 Task 5  
 Project Manager: Vince DeCianne

**Reported:**  
 06/09/20 16:23

**OO2**  
**2006046-20 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/03/20 13:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	<b>0.929</b>	0.0100	mmhos/cm	1	2006079	06/05/20	06/05/20	EPA 120.1	

Summit Scientific

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Kleinfelder  
 1801 California Street, Suite 1100  
 Denver CO, 80202

Project: Razor 25B Cleanup  
 Project Number: 20203406 Task 5  
 Project Manager: Vince DeCianne

**Reported:**  
 06/09/20 16:23

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

**Summit Scientific**

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

**Batch 2006063 - General Preparation**

**LCS (2006063-BS1)**

Prepared & Analyzed: 06/04/20

pH	9.23		pH Units	9.18	101	95-105				
----	------	--	----------	------	-----	--------	--	--	--	--

**Duplicate (2006063-DUP1)**

Source: 2006035-02

Prepared & Analyzed: 06/04/20

pH	9.14		pH Units	9.02		1.32	20			
----	------	--	----------	------	--	------	----	--	--	--

Summit Scientific

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Kleinfelder  
1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
06/09/20 16:23

**Specific Conductance by EPA Method 120.1 - Quality Control**  
**Summit Scientific**

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

**Batch 2006079 - General Preparation**

**Blank (2006079-BLK1)**

Prepared & Analyzed: 06/05/20

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (2006079-BS1)**

Prepared & Analyzed: 06/05/20

Specific Conductance (EC) 0.748 0.0100 mmhos/cm 0.750 99.7 90-110

**Duplicate (2006079-DUP1)**

**Source: 2006046-01**

Prepared & Analyzed: 06/05/20

Specific Conductance (EC) 7.16 0.0100 mmhos/cm 6.98 2.47 20

Summit Scientific



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Kleinfelder  
1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
06/09/20 16:23

### 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

**APPENDIX E**  
**SOIL ANALYTICAL REPORT – JUNE 25, 2020**

---

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 02, 2020

Vince DeCianne  
Kleinfelder  
1801 California Street, Suite 1100  
Denver, CO 80202

RE: Razor 25B Cleanup  
Work Order #2006326

Enclosed are the results of analyses for samples received by Summit Scientific on 06/25/20 16:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Muri Premer For Paul Shrewsbury  
President



Kleinfelder  
1801 California Street, Suite 1100  
Denver CO, 80202

Project: Razor 25B Cleanup  
Project Number: 20203406 Task 5  
Project Manager: Vince DeCianne

**Reported:**  
07/02/20 10:19

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
D1	2006326-01	Soil	06/25/20 12:45	06/25/20 16:20
J2	2006326-02	Soil	06/25/20 12:55	06/25/20 16:20
X3	2006326-03	Soil	06/25/20 13:20	06/25/20 16:20
CC2	2006326-04	Soil	06/25/20 13:30	06/25/20 16:20

Summit Scientific

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# Summit Scientific

2006326

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 1

Client: Kleinfelder Project Manager: Vince DeCiarro  
 Address: 707 17th Street, Suite 3000 E-Mail: jveith@kleinfelder.com  
 City/State/Zip: Denver, CO 80202 kyle.wraggoner@whiting.com  
 Phone: 970-309-6553 Project Name: Razor 25-B Cleanup  
 Sampler Name: Jordan Veith Project Number: 20203406 Task 5

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other						
1	D1	6/25/2020	1245	1			X			X								
2	J2	↓	1255	1			X			X								
3	X3		1320	1			X			X								
4	CC2		1330	1			X			X								
5	<del>_____</del>																	
6	<del>_____</del>																	
7	<del>_____</del>																	
8	<del>_____</del>																	
9	<del>_____</del>																	
10	<del>_____</del>																	
Relinquished by: <u>Jordan Veith</u>		Date/Time: <u>6/25/2020 1620</u>		Received by: <u>[Signature]</u>		Date/Time: <u>6-25-2020 1620</u>		Turn Around Time (Check)				Notes:						
								Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/>										
								24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/>										
								48 hours <input type="checkbox"/>										
Relinquished by:		Date/Time:		Received by:		Date/Time:		Sample Integrity:										
								Temperature Upon Receipt: <u>5.6°</u>										
								Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No										





Kleinfelder  
 1801 California Street, Suite 1100  
 Denver CO, 80202

Project: Razor 25B Cleanup  
 Project Number: 20203406 Task 5  
 Project Manager: Vince DeCianne

**Reported:**  
 07/02/20 10:19

**D1**  
**2006326-01 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/25/20 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	<b>2.20</b>	0.0100	mmhos/cm	1	2007005	07/01/20	07/01/20	EPA 120.1	

Summit Scientific

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Kleinfelder  
 1801 California Street, Suite 1100  
 Denver CO, 80202

Project: Razor 25B Cleanup  
 Project Number: 20203406 Task 5  
 Project Manager: Vince DeCianne

**Reported:**  
 07/02/20 10:19

**J2**  
**2006326-02 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/25/20 12:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	<b>1.50</b>	0.0100	mmhos/cm	1	2007005	07/01/20	07/01/20	EPA 120.1	

Summit Scientific



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Kleinfelder  
 1801 California Street, Suite 1100  
 Denver CO, 80202

Project: Razor 25B Cleanup  
 Project Number: 20203406 Task 5  
 Project Manager: Vince DeCianne

**Reported:**  
 07/02/20 10:19

**X3**  
**2006326-03 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/25/20 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	1.53	0.0100	mmhos/cm	1	2007005	07/01/20	07/01/20	EPA 120.1	

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.*



Kleinfelder  
 1801 California Street, Suite 1100  
 Denver CO, 80202

Project: Razor 25B Cleanup  
 Project Number: 20203406 Task 5  
 Project Manager: Vince DeCianne

**Reported:**  
 07/02/20 10:19

**CC2**  
**2006326-04 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/25/20 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	3.64	0.0100	mmhos/cm	1	2007005	07/01/20	07/01/20	EPA 120.1	

Summit Scientific



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07/02/20 10:19

**Specific Conductance by EPA Method 120.1 - Quality Control**

**Summit Scientific**

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

**Batch 2007005 - General Preparation**

<b>Blank (2007005-BLK1)</b>				Prepared & Analyzed: 07/01/20						
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
<b>LCS (2007005-BS1)</b>				Prepared & Analyzed: 07/01/20						
Specific Conductance (EC)	0.776	0.0100	mmhos/cm	0.750	103	90-110				
<b>Duplicate (2007005-DUP1)</b>				<b>Source: 2006338-01</b>		Prepared & Analyzed: 07/01/20				
Specific Conductance (EC)	0.692	0.0100	mmhos/cm	0.686			0.870	20		

Summit Scientific



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07/02/20 10:19

### 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