



FIGURES

Figure 1: Topographic Site Location Map

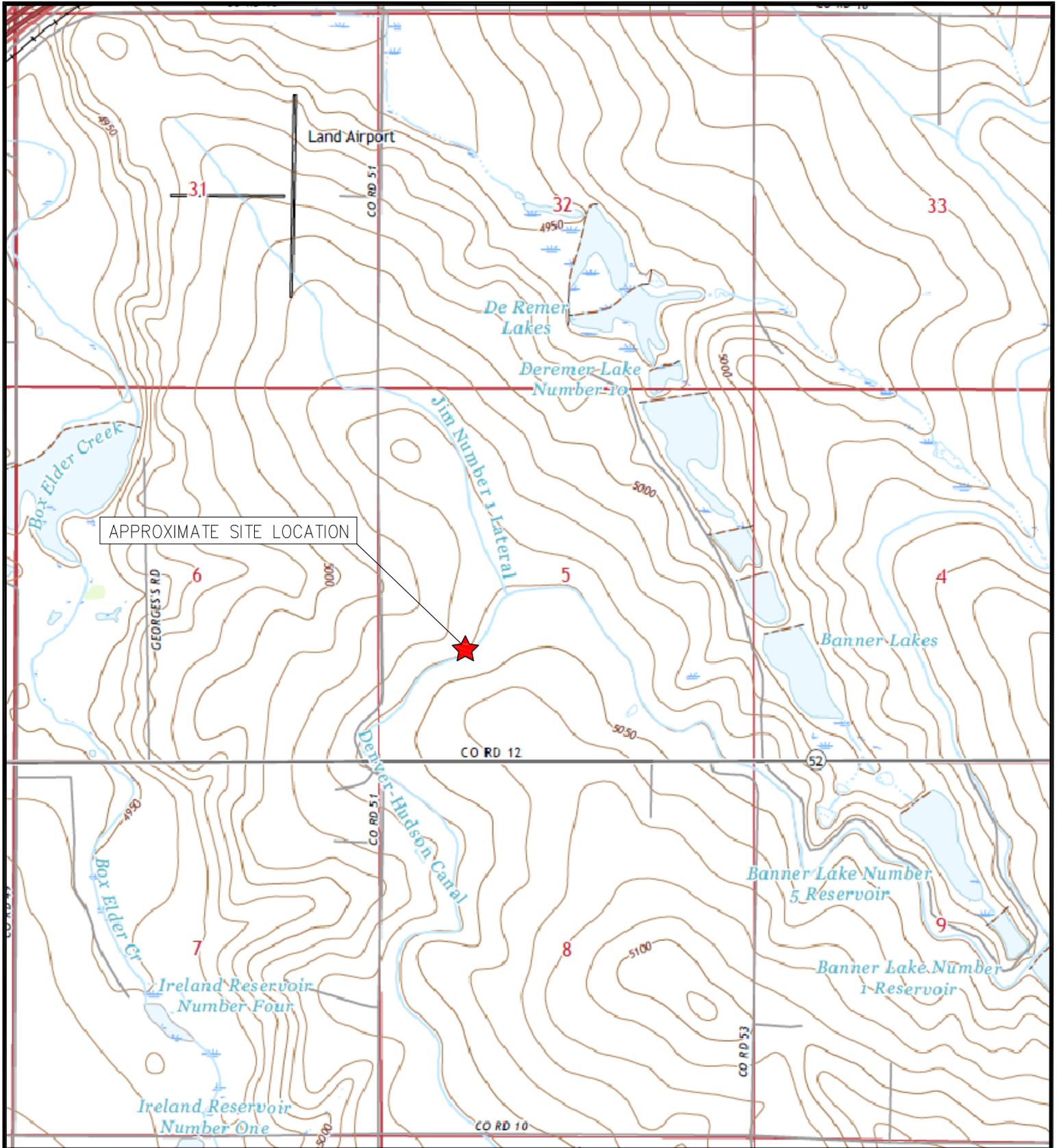
Figure 2: Aerial Site Location Map

Figure 3: Confirmation Soil Analytical Map (10/19/23)

Figure 4: Confirmation Soil Analytical Map (11/03/23)

Figure 5: Confirmation Soil Analytical Map (12/13/23)

Figure 6: Background Sample Location Map



APPROXIMATE SITE LOCATION

TOPOGRAPHIC SITE LOCATION MAP
 GRINDE 1-64-5-0108C
 SURFACE RELEASE
 40.077778 / -104.579931
 NW¼ SW¼ SEC.5 T1N R64W 6PM
 WELD COUNTY, COLORADO
 LOCATION ID 462021
 REMEDIATION # 32259



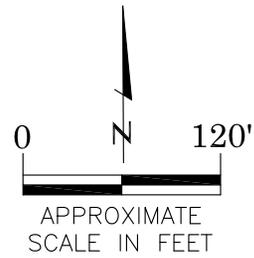
EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

8000 W 44th Ave, Wheat Ridge, CO 80033
 Ph: 303-433-0479 • F: 303-325-5449



LEGEND

-  GRINDE 1-64-5-0108C FACILITY BOUNDARIES
-  APPROXIMATE RELEASE LOCATION



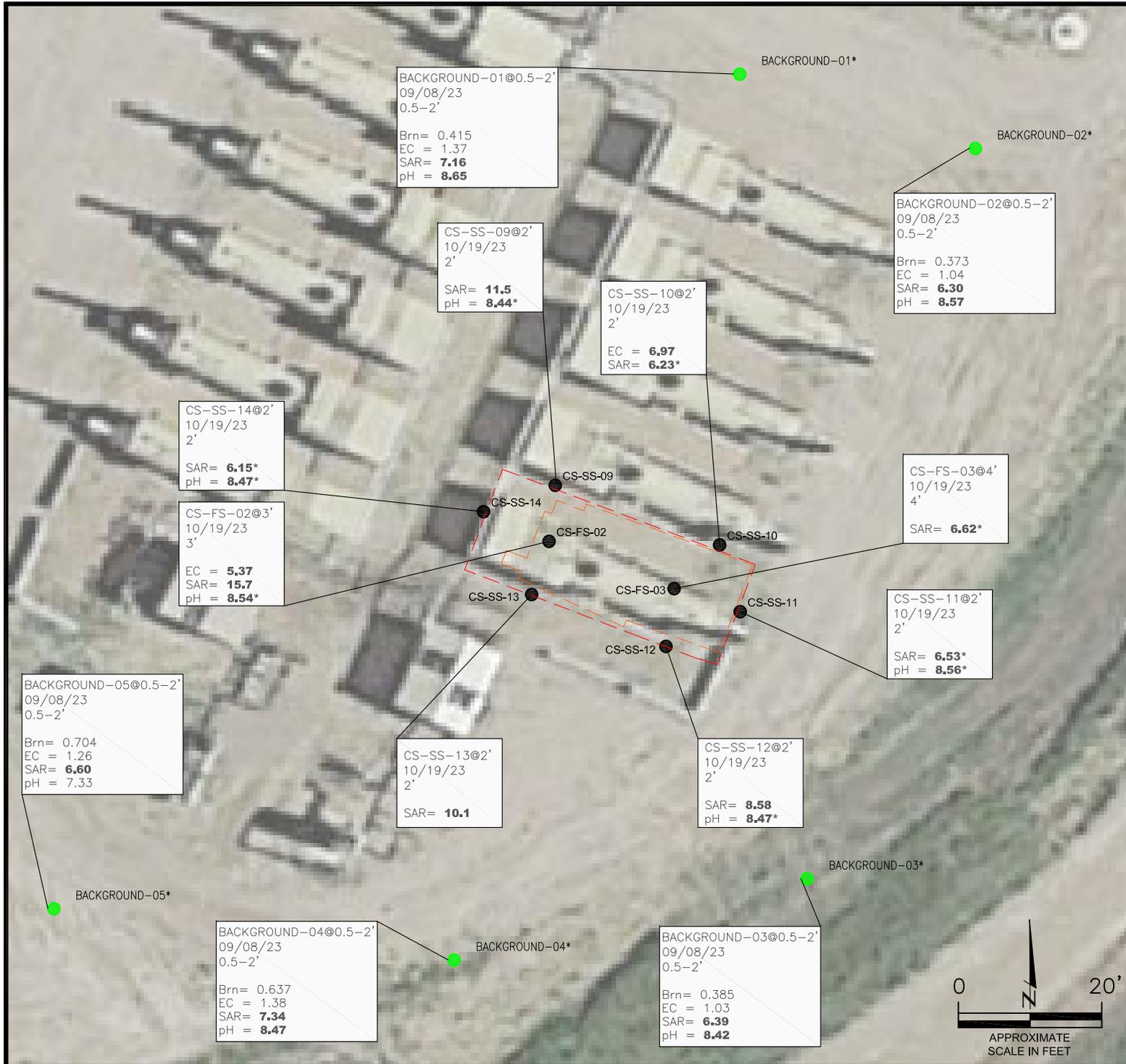
AERIAL SITE LOCATION MAP
GRINDE 1-64-5-0108C
SURFACE RELEASE
40.077778 / -104.579931
NW¼ SW¼ SEC.5 T1N R64W 6PM
WELD COUNTY, COLORADO
LOCATION ID 462021
REMEDIAION # 32259

DATE: 01/15/24

FIG. NO. 2
DRAWN BY: TC



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LEGEND

- INITIAL RELEASE AREA/EXCAVATION EXTENTS
- OVER-EXCAVATION EXTENTS (AS OF 10.19.23)
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
- BACKGROUND SAMPLES*

*BACKGROUND SAMPLES COLLECTED OFF-PAD. LOCATIONS PRESENTED ARE FOR ANALYTICAL COMPARISON, ONLY.

PARAMETERS

SAMPLE LOCATION	
DATE	
DEPTH (FEET)	
B	= BENZENE (mg/kg)
T	= TOLUENE (mg/kg)
E	= ETHYLBENZENE (mg/kg)
X	= TOTAL XYLENES (mg/kg)
N	= NAPHTHALENE (mg/kg)
G	= TPH-GRO (mg/kg)
D	= TPH-DRO (mg/kg)
R	= TPH-RRO (mg/kg)
1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)	
1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)	
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)	
Brn	= BORON (mg/L)
EC	= SPECIFIC CONDUCTANCE (mmhos/cm)
SAR	= SODIUM ADSORPTION RATIO
pH	= pH (pH UNITS)

mg/kg = MILLIGRAMS PER KILOGRAM
 mg/L = MILLIGRAMS PER LITER
 mmhos/cm = MILLIMHOS PER CENTIMETER

(BRL) = ALL CONCENTRATIONS/VALUE BELOW REGULATORY LIMITS

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS
 TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS
 TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

NOTES:
 CONCENTRATIONS/VALUES EXCEEDING REGULATORY LIMITS, ONLY, DISPLAYED.

VALUES PRESENTED IN **BOLD** EXCEED EC/MC TABLE 915-1 REGULATORY LIMITS. VALUES PRESENTED WITH ASTERISK (*) ARE LESS THAN HIGHEST BACKGROUNDS OBSERVED

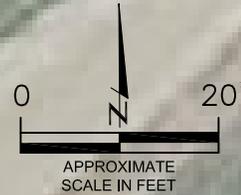
EC/MC = ENERGY & CARBON MANAGEMENT COMMISSION

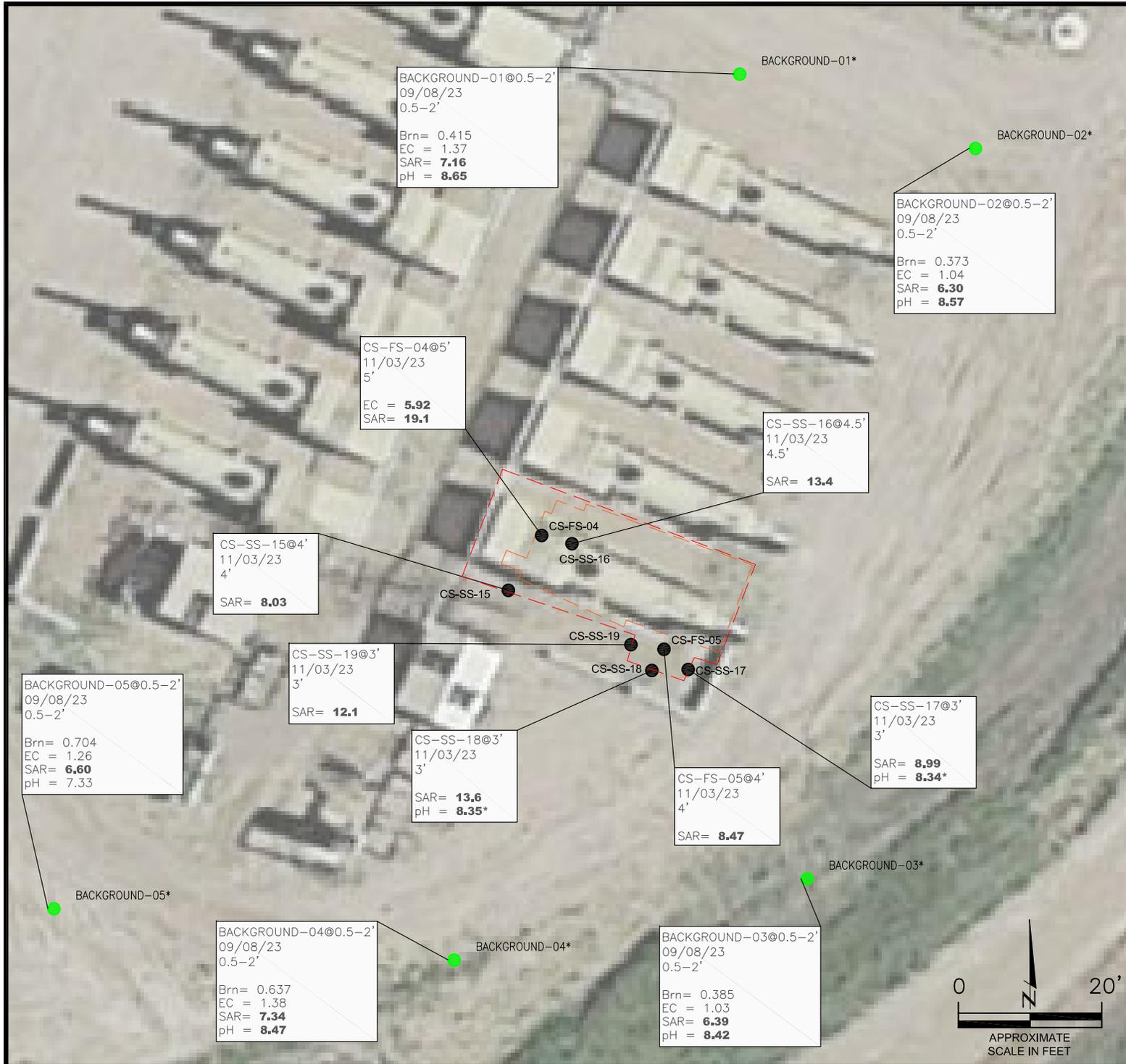
CONFIRMATION SOIL ANALYTICAL MAP

(10/19/23)
 GRINDE 1-64-5-0108C
 SURFACE RELEASE
 40.077778 / -104.579931
 NW¼ SW¼ SEC.5 T1N R64W 6PM
 WELD COUNTY, COLORADO
 LOCATION ID 462021
 REMEDIATION # 32259

DATE:	01/15/24
DRAWN BY:	AMN
FIG. NO.	3

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LEGEND

- INITIAL RELEASE AREA/EXCAVATION EXTENTS
- OVER-EXCAVATION EXTENTS (AS OF 11.03.23)
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
- BACKGROUND SAMPLES*

*BACKGROUND SAMPLES COLLECTED OFF-PAD. LOCATIONS PRESENTED ARE FOR ANALYTICAL COMPARISON, ONLY.

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DATE
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1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)
1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)
Brn= BORON (mg/L)
EC = SPECIFIC CONDUCTANCE (mmhos/cm)
SAR= SODIUM ADSORPTION RATIO
pH = pH (pH UNITS)

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 TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

NOTES:
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VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS. VALUES PRESENTED WITH ASTERISK (*) ARE LESS THAN HIGHEST BACKGROUNDS OBSERVED

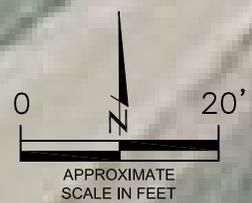
ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

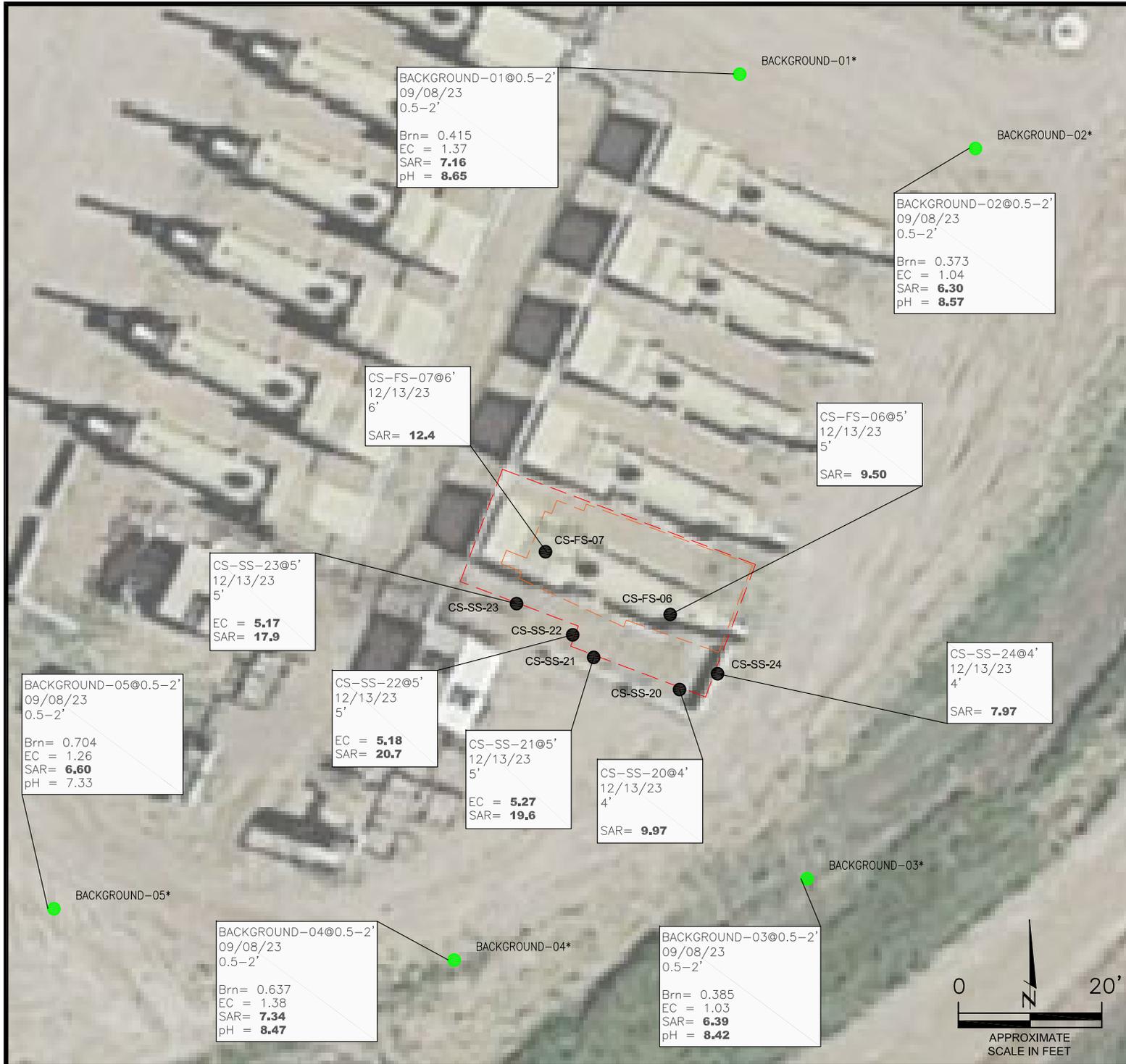
CONFIRMATION SOIL ANALYTICAL MAP

(11/03/23)
 GRINDE 1-64-5-0108C
 SURFACE RELEASE
 40.077778 / -104.579931
 NW¼ SW¼ SEC.5 T1N R64W 6PM
 WELD COUNTY, COLORADO
 LOCATION ID 462021
 REMEDIATION # 32259

DATE:	01/15/24
DRAWN BY:	AMN
FIG. NO.	4

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LEGEND

- INITIAL RELEASE AREA/EXCAVATION EXTENTS
- OVER-EXCAVATION EXTENTS (AS OF 12.13.23)
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
- BACKGROUND SAMPLES*

*BACKGROUND SAMPLES COLLECTED OFF-PAD. LOCATIONS PRESENTED ARE FOR ANALYTICAL COMPARISON, ONLY.

PARAMETERS

SAMPLE LOCATION	
DATE	
DEPTH (FEET)	
B	= BENZENE (mg/kg)
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1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)	
1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)	
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)	
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EC	= SPECIFIC CONDUCTANCE (mmhos/cm)
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NOTES:
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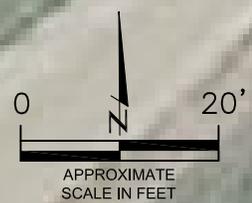
EC/MC = ENERGY & CARBON MANAGEMENT COMMISSION

CONFIRMATION SOIL ANALYTICAL MAP

(12/13/23)
GRINDE 1-64-5-0108C
SURFACE RELEASE
40.077778 / -104.579931
NW¼ SW¼ SEC.5 T1N R64W 6PM
WELD COUNTY, COLORADO
LOCATION ID 462021
REMIEDIATION # 32259

DATE:	01/15/24
DRAWN BY:	AMN
FIG. NO.	5

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LEGEND

- INITIAL RELEASE AREA/EXCAVATION EXTENTS
- APPROXIMATE BACKGROUND SAMPLE LOCATIONS (5)

BACKGROUND SAMPLE LOCATION MAP
 GRINDE 1-64-5-0108C
 SURFACE RELEASE
 40.077778 / -104.579931
 NW¼ SW¼ SEC.5 T1N R64W 6PM
 WELD COUNTY, COLORADO
 LOCATION ID 462021
 REMEDIATION # 32259

DATE:
01/15/24
 DRAWN BY:
AMN
 FIG.
NO. 7



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TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

Table 3: Polycyclic Aromatics Hydrocarbons Analytical Results Summary

Table 4: Residual Impact Analytical Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
GRINDE 1-64-5-0108C
SURFACE RELEASE
40.077778 / -104.579931
NW¼ SW¼ SEC.5 T1N R64W 6PM
WELD COUNTY, COLORADO
LOCATION ID 462021
REMEDIAION # 32259

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)	Notes:
SS-01 @ 1' (40.077744 / -104.579848)	09/14/23	1	34.8	Y	Initial Assessment Samples
SS-02 @ 1' (40.077730 / -104.579865)	09/14/23	1	36.5	Y	
SS-03 @ 0.5' (40.077736 / -104.579898)	09/14/23	0.5	37.4	N	
SS-04 @ 0.5' (40.077750 / -104.579934)	09/14/23	0.5	40.2	N	
SS-05 @ 0.5' (40.077756 / -104.579938)	09/14/23	0.5	43.5	N	
SS-06 @ 0.5' (40.077758 / -104.579932)	09/14/23	0.5	45.8	N	
SS-07 @ 1' (40.077764 / -104.579924)	09/14/23	1	46.8	Y	
SS-08 @ 1' (40.077772 / -104.579913)	09/14/23	1	19.1	Y	
SS-09 @ 1' (40.077774 / -104.579907)	09/14/23	1	45.5	Y	
SS-10 @ 1' (40.077775 / -104.579902)	09/14/23	1	46.7	Y	
SS-11 @ 0.5' (40.077775 / -104.579898)	09/14/23	0.5	38.8	N	
SS-12 @ 0.5' (40.077775 / -104.579887)	09/14/23	0.5	36.7	N	
SS-13 @ 1' (40.077766 / -104.579866)	09/14/23	1	29.8	Y	
SS-14 @ 0.5' (40.077747 / -104.579929)	09/14/23	0.5	25.6	N	
SS-15 @ 0.5' (40.077730 / -104.579875)	09/14/23	0.5	10.3	N	
FS-01 @ 1' (40.077746 / -104.579904)	09/14/23	1	37.9	Y	
FS-02 @ 1' (40.077772 / -104.579888)	09/14/23	1	36.9	Y	
FS-03 @ 2' (40.077753 / -104.579874)	09/14/23	2	14.6	Y	



TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
GRINDE 1-64-5-0108C
SURFACE RELEASE
40.077778 / -104.579931
NW¼ SW¼ SEC.5 T1N R64W 6PM
WELD COUNTY, COLORADO
LOCATION ID 462021
REMEDIATION # 32259

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)	Notes:
Background-01 @ 0.5-2' (40.078135 / -104.580239)	09/14/23	0.5-2	5.6	Y	Background Comparison Samples
Background-02 @ 0.5-2' (40.077958 / -104.580378)	09/14/23	0.5-2	4.7	Y	
Background-03 @ 0.5-2' (40.077462 / -104.579825)	09/14/23	0.5-2	4.3	Y	
Background-04 @ 0.5-2' (40.077625 / -104.579550)	09/14/23	0.5-2	5.1	Y	
Background-05 @ 0.5-2' (40.077896 / -104.579474)	09/14/23	0.5-2	3.8	Y	
CS-SS-01 @ 2' (40.077756 / -104.579933)	09/29/23	2	1.7	Y	Confirmation Samples Collected Following Over- Excavation of SS-07, SS-08, SS-09, and SS- 10
CS-SS-02 @ 2' (40.077751 / -104.579945)	09/29/23	2	1.1	Y	
CS-SS-03 @ 2' (40.077752 / -104.579949)	09/29/23	2	0.7	N	
CS-SS-04 @ 2' (40.077772 / -104.579942)	09/29/23	2	1.1	Y	
CS-SS-05 @ 2' (40.077786 / -104.579916)	09/29/23	2	0.9	Y	
CS-SS-06 @ 2' (40.077769 / -104.579906)	09/29/23	2	0.8	Y	
CS-SS-07 @ 2' (40.077765 / -104.579916)	09/29/23	2	0.7	Y	
CS-SS-08 @ 2' (40.077759 / -104.579925)	09/29/23	2	0.7	Y	
CS-FS-01 @ 3' (40.077772 / -104.579924)	09/29/23	3	1.8	Y	



TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
GRINDE 1-64-5-0108C
SURFACE RELEASE
40.077778 / -104.579931
NW¼ SW¼ SEC.5 T1N R64W 6PM
WELD COUNTY, COLORADO
LOCATION ID 462021
REMEDIATION # 32259

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)	Notes:
CS-SS-09 @ 2' (40.077766 / -104.579993)	10/19/23	2	0.6	Y	Confirmation Samples Collected Following Over- Excavation of SS-02, SS-13, FS-01, FS-02, CS-SS-04, and CS-SS 06
CS-SS-10 @ 2' (40.077739 / -104.579904)	10/19/23	2	1.2	Y	
CS-SS-11 @ 2' (40.077731 / -104.579866)	10/19/23	2	0.7	Y	
CS-SS-12 @ 2' (40.077715 / -104.579909)	10/19/23	2	0.8	Y	
CS-SS-13 @ 2' (40.077725 / -104.579942)	10/19/23	2	1.5	Y	
CS-SS-14 @ 2' (40.077739 / -104.579960)	10/19/23	2	0.8	Y	
CS-FS-02 @ 3' (40.077736 / -104.579921)	10/19/23	3	0.2	Y	
CS-FS-03 @ 4' (40.077721 / -104.579887)	10/19/23	4	1.1	Y	
CS-SS-15 @ 4' (40.077742 / -104.579935)	11/03/23	4	4.6	Y	
CS-SS-16 @ 4.5' (40.077762 / -104.579905)	11/03/23	4.5	5.1	Y	
CS-SS-17 @ 3' (40.077711 / -104.579848)	11/03/23	3	6.6	Y	
CS-SS-18 @ 3' (40.077708 / -104.579863)	11/03/23	3	6	Y	
CS-SS-19 @ 3' (40.077718 / -104.579875)	11/03/23	3	4	Y	
CS-FS-04 @ 5' (40.077745 / -104.579934)	11/03/23	5	3.6	Y	
CS-FS-05 @ 4' (40.077719 / -104.579858)	11/03/23	4	2.5	Y	



TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
GRINDE 1-64-5-0108C
SURFACE RELEASE
40.077778 / -104.579931
NW¼ SW¼ SEC.5 T1N R64W 6PM
WELD COUNTY, COLORADO
LOCATION ID 462021
REMEDATION # 32259

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)	Notes:
CS-SS-20 @ 4' (40.077704 / -104.579849)	12/13/23	4	1.3	Y	Confirmation Samples Collected Following Over- Excavation of CS-SS- 15 through CS-SS- 19, CS-FS-04, and CS FS-05
CS-SS-21 @ 5' (40.077716 / -104.579891)	12/13/23	5	1.8	Y	
CS-SS-22 @ 5' (40.077723 / -104.579902)	12/13/23	5	1.9	Y	
CS-SS-23 @ 5' (40.077735 / -104.579931)	12/13/23	5	1.3	Y	
CS-SS-24 @ 4' (40.077705 / -104.579838)	12/13/23	4	0.8	Y	
CS-FS-06 @ 5' (40.077732 / -104.579859)	12/13/23	5	1.5	Y	
CS-FS-07 @ 6' (40.077756 / -104.579913)	12/13/23	6	2.3	Y	
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector					



TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
GRINDE 1-64-5-0108C
SURFACE RELEASE
40.077778 / -104.579931
NW¼ SW¼ SEC.5 T1N R64W 6PM
WELD COUNTY, COLORADO
LOCATION ID 462021
REMEDIATION # 32259

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-RRO (mg/kg)	1,2,4- Trimethylbenzene (mg/kg)	1,3,5- Trimethylbenzene (mg/kg)	Boron (mg/L)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
ECMC Table 915-1 Residential Screening Levels				1.2	490	5.8	58	500			30	27	2	<4	6-8.3	<6
Local Clean-Up Levels				--	--	--	--	--			--	--	--	--	8.65	7.34
Initial Assessment Samples																
SS-01 @ 1' (40.077744 / -104.579848)	09/14/23	1	34.8	<0.0020	<0.0050	<0.0050	<0.010	0.21	8.5	12	<0.0050	<0.0050	0.316	0.980	8.29	4.20
SS-02 @ 1' (40.077730 / -104.579865)	09/14/23	1	36.5	<0.0020	<0.0050	<0.0050	<0.010	0.22	11	10	<0.0050	<0.0050	0.199	7.95	7.64	7.88
SS-07 @ 1' (40.077764 / -104.579924)	09/14/23	1	46.8	<0.0020	<0.0050	<0.0050	<0.010	0.22	8.9	10	<0.0050	<0.0050	0.435	11.0	7.57	7.78
SS-08 @ 1' (40.077772 / -104.579913)	09/14/23	1	19.1	<0.0020	<0.0050	<0.0050	<0.010	0.22	10	9.0	<0.0050	<0.0050	2.50	31.1	7.54	30.7
SS-09 @ 1' (40.077774 / -104.579907)	09/14/23	1	45.5	<0.0020	<0.0050	<0.0050	<0.010	0.22	8.6	9.4	<0.0050	<0.0050	2.47	22.8	7.67	34.7
SS-10 @ 1' (40.077775 / -104.579902)	09/14/23	1	46.7	<0.0020	<0.0050	<0.0050	<0.010	0.22	9.0	9.0	<0.0050	<0.0050	1.22	14.8	7.83	10.5
SS-13 @ 1' (40.077766 / -104.579866)	09/14/23	1	29.8	<0.0020	<0.0050	<0.0050	<0.010	0.21	9.6	8.4	<0.0050	<0.0050	0.490	6.57	7.60	10.0
FS-01 @ 1' (40.077746 / -104.579904)	09/14/23	1	37.9	<0.0020	<0.0050	<0.0050	<0.010	0.23	9.2	8.2	<0.0050	<0.0050	0.583	8.84	7.79	9.08
FS-02 @ 1' (40.077772 / -104.579888)	09/14/23	1	36.9	<0.0020	<0.0050	<0.0050	<0.010	0.22	9.0	8.9	<0.0050	<0.0050	0.720	9.78	8.75	15.9
FS-03 @ 2' (40.077753 / -104.579874)	09/14/23	2	14.6	<0.0020	<0.0050	<0.0050	<0.010	0.20	120	120	<0.0050	<0.0050	0.396	0.584	8.44	3.40
Background Comparison Samples																
Background-01 @ 0.5-2' (40.078135 / -104.580239)	09/14/23	0.5-2	5.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.415	1.37	8.65	7.16
Background-02 @ 0.5-2' (40.077958 / -104.580378)	09/14/23	0.5-2	4.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.373	1.04	8.57	6.30
Background-03 @ 0.5-2' (40.077462 / -104.579825)	09/14/23	0.5-2	4.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.385	1.03	8.42	6.39
Background-04 @ 0.5-2' (40.077625 / -104.579550)	09/14/23	0.5-2	5.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.637	1.38	8.47	7.34
Background-05 @ 0.5-2' (40.077896 / -104.579474)	09/14/23	0.5-2	3.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.704	1.26	7.33	6.60
Confirmation Samples Collected Following Over-Excavation of SS-07, SS-08, SS-09, and SS-10																
CS-SS-01 @ 2' (40.077756 / -104.579933)	09/29/23	2	1.7	<0.0020	<0.0050	<0.0050	<0.010	0.025	<50	43	<0.0050	<0.0050	0.587	1.84	7.85	0.112
CS-SS-02 @ 2' (40.077751 / -104.579945)	09/29/23	2	1.1	<0.0020	<0.0050	<0.0050	<0.010	0.021	38	27	<0.0050	<0.0050	0.163	2.72	8.15	0.0544
CS-SS-04 @ 2' (40.077772 / -104.579942)	09/29/23	2	1.1	<0.0020	<0.0050	<0.0050	<0.010	0.024	<50	26	<0.0050	<0.0050	0.310	0.488	8.86	0.0181
CS-SS-05 @ 2' (40.077786 / -104.579916)	09/29/23	2	0.9	<0.0020	<0.0050	<0.0050	<0.010	0.020	<50	24	<0.0050	<0.0050	0.322	2.00	8.11	0.0603
CS-SS-06 @ 2' (40.077769 / -104.579906)	09/29/23	2	0.8	<0.0020	<0.0050	<0.0050	<0.010	0.027	<50	22	<0.0050	<0.0050	0.525	1.33	8.70	0.0248
CS-SS-07 @ 2' (40.077765 / -104.579916)	09/29/23	2	0.7	<0.0020	<0.0050	<0.0050	<0.010	0.011	<50	19	<0.0050	<0.0050	0.745	2.70	8.58	0.0393
CS-SS-08 @ 2' (40.077759 / -104.579925)	09/29/23	2	0.7	<0.0020	<0.0050	<0.0050	<0.010	0.013	<50	11	<0.0050	<0.0050	0.379	1.02	8.47	0.0263
CS-FS-01 @ 3' (40.077772 / -104.579924)	09/29/23	3	1.8	<0.0020	<0.0050	<0.0050	<0.010	0.028	<50	13	<0.0050	<0.0050	0.537	1.62	8.63	0.0555

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
GRINDE 1-64-5-0108C
SURFACE RELEASE
40.077778 / -104.579931
NW¼ SW¼ SEC.5 T1N R64W 6PM
WELD COUNTY, COLORADO
LOCATION ID 462021
REMEDIATION # 32259

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-RRO (mg/kg)	1,2,4- Trimethylbenzene (mg/kg)	1,3,5- Trimethylbenzene (mg/kg)	Boron (mg/L)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
ECMC Table 915-1 Residential Screening Levels				1.2	490	5.8	58	500			30	27	2	<4	6-8.3	<6
Local Clean-Up Levels				--	--	--	--	--			--	--	--	--	8.65	7.34
Confirmation Samples Collected Following Over-Excavation of SS-02, SS-13, FS-01, FS-02, CS-SS-04, and CS-SS-06																
CS-SS-09 @ 2' (40.077766 / -104.579993)	10/19/23	2	0.6	<0.0020	<0.0050	<0.0050	<0.010	0.023	12	4.8	<0.0050	<0.0050	0.401	3.57	8.44	11.5
CS-SS-10 @ 2' (40.077739 / -104.579904)	10/19/23	2	1.2	<0.0020	<0.0050	<0.0050	<0.010	0.031	11	5.1	<0.0050	<0.0050	0.281	6.97	7.69	6.23
CS-SS-11 @ 2' (40.077731 / -104.579866)	10/19/23	2	0.7	<0.0020	<0.0050	<0.0050	<0.010	0.035	15	5.7	<0.0050	<0.0050	0.234	1.14	8.56	6.53
CS-SS-12 @ 2' (40.077715 / -104.579909)	10/19/23	2	0.8	<0.0020	<0.0050	<0.0050	<0.010	0.025	9.2	6.0	<0.0050	<0.0050	0.399	2.08	8.47	8.58
CS-SS-13 @ 2' (40.077725 / -104.579942)	10/19/23	2	1.5	<0.0020	<0.0050	<0.0050	<0.010	0.032	13	5.4	<0.0050	<0.0050	0.46	3.18	8.30	10.1
CS-SS-14 @ 2' (40.077739 / -104.579960)	10/19/23	2	0.8	<0.0020	<0.0050	<0.0050	<0.010	0.029	16	4.7	<0.0050	<0.0050	0.206	1.18	8.47	6.15
CS-FS-02 @ 3' (40.077736 / -104.579921)	10/19/23	3	0.2	<0.0020	<0.0050	<0.0050	<0.010	0.028	16	5.3	<0.0050	<0.0050	0.332	5.37	8.54	15.7
CS-FS-03 @ 4' (40.077721 / -104.579887)	10/19/23	4	1.1	<0.0020	<0.0050	<0.0050	<0.010	0.037	15	5.8	<0.0050	<0.0050	0.144	1.86	8.24	6.62
Confirmation Samples Collected Following Over-Excavation CS-FS-02 and CS-SS-12																
CS-SS-15 @ 4' (40.077742 / -104.579935)	11/03/23	4	4.6	<0.0020	<0.0050	<0.0050	<0.010	0.083	20	6.6	<0.0050	<0.0050	0.391	2.43	8.03	8.03
CS-SS-16 @ 4.5' (40.077762 / -104.579905)	11/03/23	4.5	5.1	<0.0020	<0.0050	<0.0050	<0.010	0.084	19	6.2	<0.0050	<0.0050	0.364	3.06	8.17	13.4
CS-SS-17 @ 3' (40.077711 / -104.579848)	11/03/23	3	6.6	<0.0020	<0.0050	<0.0050	<0.010	0.084	17	6.2	<0.0050	<0.0050	0.387	1.98	8.34	8.99
CS-SS-18 @ 3' (40.077708 / -104.579863)	11/03/23	3	6	<0.0020	<0.0050	<0.0050	<0.010	0.084	17	6.6	<0.0050	<0.0050	0.437	2.14	8.35	13.6
CS-SS-19 @ 3' (40.077718 / -104.579875)	11/03/23	3	4	<0.0020	<0.0050	<0.0050	<0.010	0.083	13	8.2	<0.0050	<0.0050	0.527	2.86	8.24	12.1
CS-FS-04 @ 5' (40.077745 / -104.579934)	11/03/23	5	3.6	<0.0020	<0.0050	<0.0050	<0.010	0.083	17	12	<0.0050	<0.0050	0.450	5.92	8.25	19.1
CS-FS-05 @ 4' (40.077719 / -104.579858)	11/03/23	4	2.5	<0.0020	<0.0050	<0.0050	<0.010	0.083	21	8.2	<0.0050	<0.0050	0.274	1.74	8.26	8.47
Confirmation Samples Collected Following Over-Excavation of CS-SS-15 through CS-SS-19, CS-FS-04, and CS-FS-05																
CS-SS-20 @ 4' (40.077704 / -104.579849)	12/13/23	4	1.3	<0.0020	<0.0050	<0.0050	<0.010	<0.50	22	14	<0.0050	<0.0050	0.370	2.26	8.24	9.97
CS-SS-21 @ 5' (40.077716 / -104.579891)	12/13/23	5	1.8	<0.0020	<0.0050	<0.0050	<0.010	<0.50	26	15	<0.0050	<0.0050	0.515	5.27	8.15	19.6
CS-SS-22 @ 5' (40.077723 / -104.579902)	12/13/23	5	1.9	<0.0020	<0.0050	<0.0050	<0.010	<0.50	22	16	<0.0050	<0.0050	0.652	5.18	8.21	20.7
CS-SS-23 @ 5' (40.077735 / -104.579931)	12/13/23	5	1.3	<0.0020	<0.0050	<0.0050	<0.010	<0.50	13	17	<0.0050	<0.0050	0.375	5.17	8.17	17.9
CS-SS-24 @ 4' (40.077705 / -104.579838)	12/13/23	4	0.8	<0.0020	<0.0050	<0.0050	<0.010	<0.50	9.0	15	<0.0050	<0.0050	0.239	1.57	8.21	7.97
CS-FS-06 @ 5' (40.077732 / -104.579859)	12/13/23	5	1.5	<0.0020	<0.0050	<0.0050	<0.010	<0.50	13	15	<0.0050	<0.0050	0.476	2.99	8.06	9.50
CS-FS-07 @ 6' (40.077756 / -104.579913)	12/13/23	6	2.3	<0.0020	<0.0050	<0.0050	<0.010	<0.50	15	12	<0.0050	<0.0050	0.425	3.89	8.13	12.4
ECMC = Energy & Carbon Management Commission mg/kg = milligrams per kilogram TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics NA - Not Analyzed mmhos/cm = millimhos per centimeter TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics SAR = Sodium Adsorption Ratio TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics ppm-v = parts per million by volume PID = Photoionization Detector Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit. Note: Values presented in BOLD contained concentrations exceeding applicable ECMC Table 915-1 Regulatory Limits. Highlighted values exceed 915-1 and "local clean-up levels" established by background comparison, where applicable																

TABLE 3
PAH ANALYTICAL RESULTS SUMMARY
GRINDE 1-64-5-0108C
SURFACE RELEASE
40.077778 / -104.579931
NW¼ SW¼ SEC.5 T1N R64W 6PM
WELD COUNTY, COLORADO
LOCATION ID 462021
REMEDATION # 32259

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading	1-Methyl- naphthalene (mg/kg)	2-Methyl- naphthalene (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)- anthracene (mg/kg)	Benzo(a)-pyrene (mg/kg)	Benzo(b)- fluoranthene (mg/kg)	Benzo(k)- fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)- anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(1,2,3- cd)-pyrene (mg/kg)	Naphthalene (mg/kg)	Pyrene (mg/kg)
ECMC Table 915-1 Residential Screening Levels				18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	2	180
Initial Assessment Samples																		
SS-01 @ 1' (40.077744 / -104.579848)	09/14/23	1	34.8	<0.00500	<0.00500	<0.00500	<0.00500	0.0173	0.0125	0.0252	0.00866	0.0290	<0.00500	0.0626	<0.00500	0.0127	<0.0038	0.0451
SS-02 @ 1' (40.077730 / -104.579865)	09/14/23	1	36.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
SS-07 @ 1' (40.077764 / -104.579924)	09/14/23	1	46.8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
SS-08 @ 1' (40.077772 / -104.579913)	09/14/23	1	19.1	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
SS-09 @ 1' (40.077774 / -104.579907)	09/14/23	1	45.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
SS-10 @ 1' (40.077775 / -104.579902)	09/14/23	1	46.7	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
SS-13 @ 1' (40.077766 / -104.579866)	09/14/23	1	29.8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
FS-01 @ 1' (40.077746 / -104.579904)	09/14/23	1	37.9	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
FS-02 @ 1' (40.077772 / -104.579888)	09/14/23	1	36.9	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
FS-03 @ 2' (40.077753 / -104.579874)	09/14/23	2	14.6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
Confirmation Samples Collected Following Over-Excavation of SS-07, SS-08, SS-09, and SS-10																		
CS-SS-01 @ 2' (40.077756 / -104.579933)	09/29/23	2	1.7	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-02 @ 2' (40.077751 / -104.579945)	09/29/23	2	1.1	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-04 @ 2' (40.077772 / -104.579942)	09/29/23	2	1.1	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-05 @ 2' (40.077786 / -104.579916)	09/29/23	2	0.9	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-06 @ 2' (40.077769 / -104.579906)	09/29/23	2	0.8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-07 @ 2' (40.077765 / -104.579916)	09/29/23	2	0.7	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-08 @ 2' (40.077759 / -104.579925)	09/29/23	2	0.7	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-FS-01 @ 3' (40.077772 / -104.579924)	09/29/23	3	1.8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
Confirmation Samples Collected Following Over-Excavation of SS-02, SS-13, FS-01, FS-02, CS-SS-04, and CS-SS-06																		
CS-SS-09 @ 2' (40.077766 / -104.579933)	10/19/23	2	0.6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-10 @ 2' (40.077739 / -104.579904)	10/19/23	2	1.2	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-11 @ 2' (40.077731 / -104.579866)	10/19/23	2	0.7	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-12 @ 2' (40.077715 / -104.579909)	10/19/23	2	0.8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-13 @ 2' (40.077725 / -104.579942)	10/19/23	2	1.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-14 @ 2' (40.077739 / -104.579960)	10/19/23	2	0.8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-FS-02 @ 3' (40.077736 / -104.579921)	10/19/23	3	0.2	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-FS-03 @ 4' (40.077721 / -104.579887)	10/19/23	4	1.1	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500

TABLE 3
PAH ANALYTICAL RESULTS SUMMARY
GRINDE 1-64-5-0108C
SURFACE RELEASE
40.077778 / -104.579931
NW¼ SW¼ SEC.5 T1N R64W 6PM
WELD COUNTY, COLORADO
LOCATION ID 462021
REMEDIATION # 32259

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading	1-Methyl- naphthalene (mg/kg)	2-Methyl- naphthalene (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)- anthracene (mg/kg)	Benzo(a)-pyrene (mg/kg)	Benzo(b)- fluoranthene (mg/kg)	Benzo(k)- fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)- anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(1,2,3- cd)-pyrene (mg/kg)	Naphthalene (mg/kg)	Pyrene (mg/kg)
ECMC Table 915-1 Residential Screening Levels				18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	2	180
Confirmation Samples Collected Following Over-Excavation CS-FS-02 and CS-SS-12																		
CS-SS-15 @ 4' (40.077742 / -104.579935)	11/03/23	4	4.6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-16 @ 4.5' (40.077762 / -104.579905)	11/03/23	4.5	5.1	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-17 @ 3' (40.077711 / -104.579848)	11/03/23	3	6.6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-18 @ 3' (40.077708 / -104.579863)	11/03/23	3	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-19 @ 3' (40.077718 / -104.579875)	11/03/23	3	4	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-FS-04 @ 5' (40.077745 / -104.579934)	11/03/23	5	3.6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-FS-05 @ 4' (40.077719 / -104.579858)	11/03/23	4	2.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
Confirmation Samples Collected Following Over-Excavation of CS-SS-15 through CS-SS-19, CS-FS-04, and CS-FS-05																		
CS-SS-20 @ 4' (40.077704 / -104.579849)	12/13/23	4	1.3	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-21 @ 5' (40.077716 / -104.579891)	12/13/23	5	1.8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-22 @ 5' (40.077723 / -104.579902)	12/13/23	5	1.9	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-23 @ 5' (40.077735 / -104.579931)	12/13/23	5	1.3	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-24 @ 4' (40.077705 / -104.579838)	12/13/23	4	0.8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-FS-06 @ 5' (40.077732 / -104.579859)	12/13/23	5	1.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-FS-07 @ 6' (40.077756 / -104.579913)	12/13/23	6	2.3	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500

ECMC = Energy & Carbon Management Commission

mg/kg = milligrams per kilogram

ppm-v = parts per million by volume

PID = Photoionization Detector

Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit.

Note: Values presented in **BOLD** contained concentrations exceeding applicable ECMC Table 915-1 Regulatory Limits.

**TABLE 4
RESIDUAL IMPACT ANALYTICAL SUMMARY
GRINDE 1-64-5-0108C
SURFACE RELEASE
40.077778 / -104.579931
NW¼ SW¼ SEC.5 T1N R64W 6PM
WELD COUNTY, COLORADO
LOCATION ID 462021
REMEDATION # 32259**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Boron (mg/L)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
ECMC Table 915-1 Residential Screening Levels				2	<4	6-8.3	<6
Local Clean-Up Levels				--	--	8.65	7.34
Background Comparison Samples							
Background-01 @ 0.5-2' (40.078135 / -104.580239)	09/14/23	0.5-2	5.6	0.415	1.37	8.65	7.16
Background-02 @ 0.5-2' (40.077958 / -104.580378)	09/14/23	0.5-2	4.7	0.373	1.04	8.57	6.30
Background-03 @ 0.5-2' (40.077462 / -104.579825)	09/14/23	0.5-2	4.3	0.385	1.03	8.42	6.39
Background-04 @ 0.5-2' (40.077625 / -104.579550)	09/14/23	0.5-2	5.1	0.637	1.38	8.47	7.34
Background-05 @ 0.5-2' (40.077896 / -104.579474)	09/14/23	0.5-2	3.8	0.704	1.26	7.33	6.60
Confirmation Samples Collected Following Over-Excavation of SS-02, SS-13, FS-01, FS-02, CS-SS-04, and CS-SS-06							
CS-SS-09 @ 2' (40.077766 / -104.579993)	10/19/23	2	0.6	0.401	3.57	8.44	11.5
CS-SS-10 @ 2' (40.077739 / -104.579904)	10/19/23	2	1.2	0.281	6.97	7.69	6.23
Confirmation Samples Collected Following Over-Excavation of CS-SS-15 through CS-SS-19, CS-FS-04, and CS-FS-05							
CS-SS-20 @ 4' (40.077704 / -104.579849)	12/13/23	4	1.3	0.370	2.26	8.24	9.97
CS-SS-21 @ 5' (40.077716 / -104.579891)	12/13/23	5	1.8	0.515	5.27	8.15	19.6
CS-SS-22 @ 5' (40.077723 / -104.579902)	12/13/23	5	1.9	0.652	5.18	8.21	20.7
CS-SS-23 @ 5' (40.077735 / -104.579931)	12/13/23	5	1.3	0.375	5.17	8.17	17.9
CS-SS-24 @ 4' (40.077705 / -104.579838)	12/13/23	4	0.8	0.239	1.57	8.21	7.97
CS-FS-06 @ 5' (40.077732 / -104.579859)	12/13/23	5	1.5	0.476	2.99	8.06	9.50
CS-FS-07 @ 6' (40.077756 / -104.579913)	12/13/23	6	2.3	0.425	3.89	8.13	12.4
ECMC = Energy & Carbon Management Commission mmhos/cm = millimhos per centimeter SAR = Sodium Adsorption Ratio ppm-v = parts per million by volume PID = Photoionization Detector Note: Values presented in BOLD contained concentrations exceeding applicable ECMC Table 915-1 Regulatory Limits. Highlighted values exceed 915-1 and "local clean-up levels" established by background comparison, where applicable							





ATTACHMENT A

Photo Log

Grinde 1-64-5-0108C

Location ID 462021

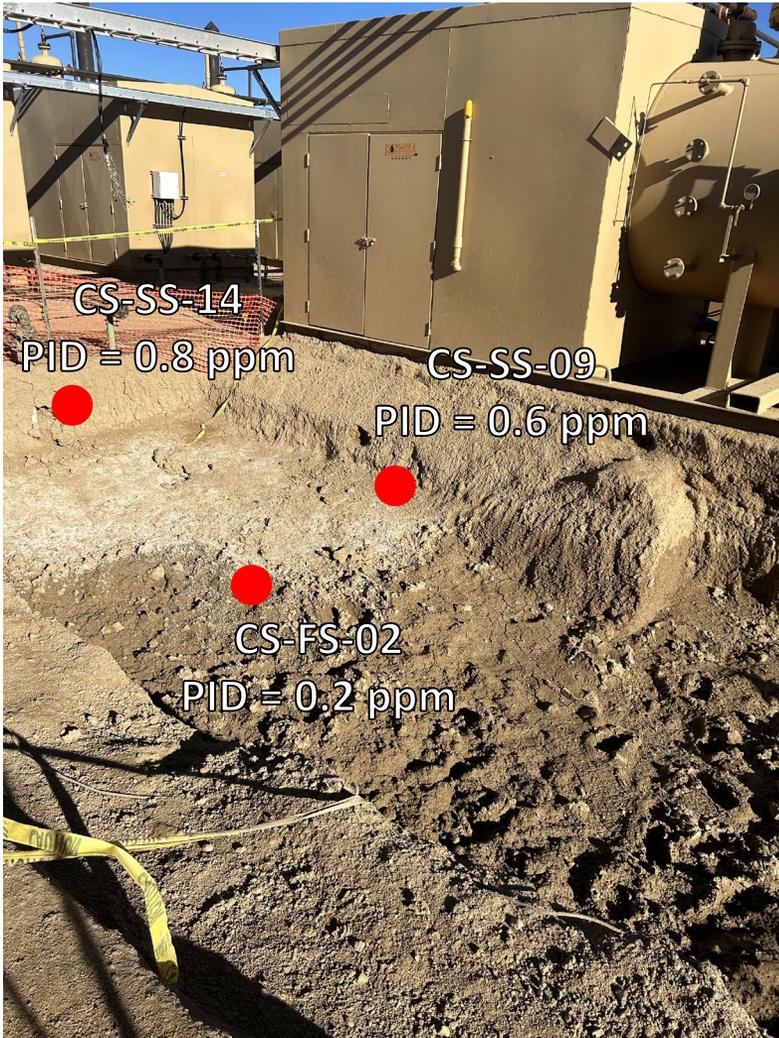
Remediation # 32259

Confirmation Sampling

October-December 2023

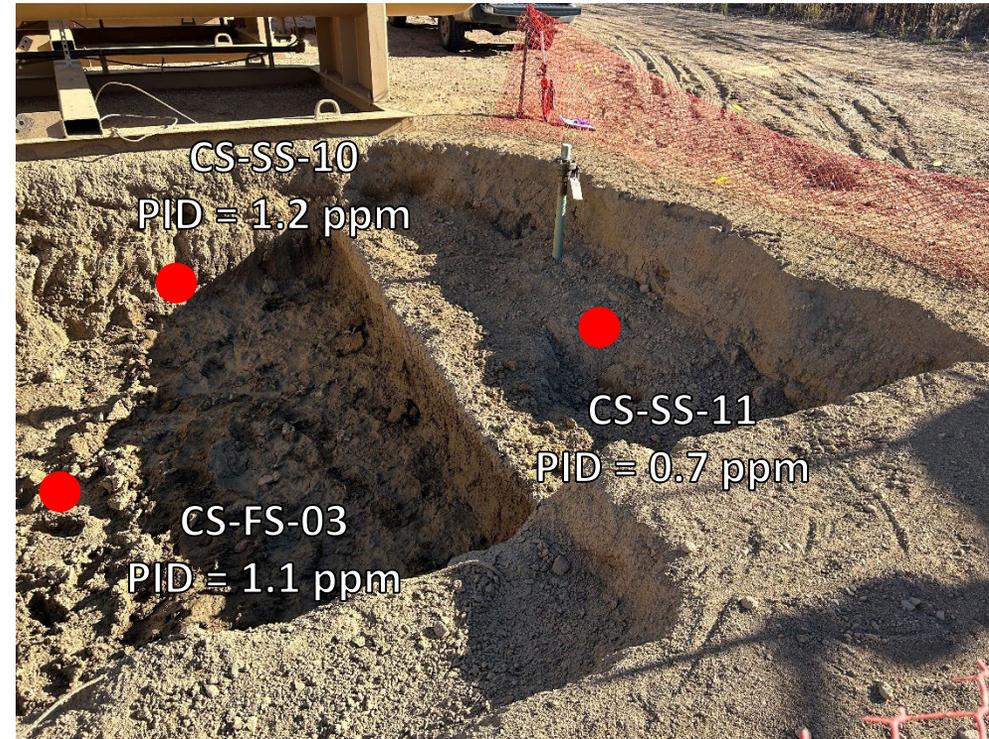


Over-Excavation / Confirmation Sampling – 10/19/23



Looking northwest at over-excavation of SS-02, SS-13, FS-01, FS-02, CS-SS-04, CS-SS-06

No petroleum hydrocarbon staining or odor observed



Looking east-northeast at over-excavation of SS-02, SS-13, FS-01, FS-02, CS-SS-04, CS-SS-06

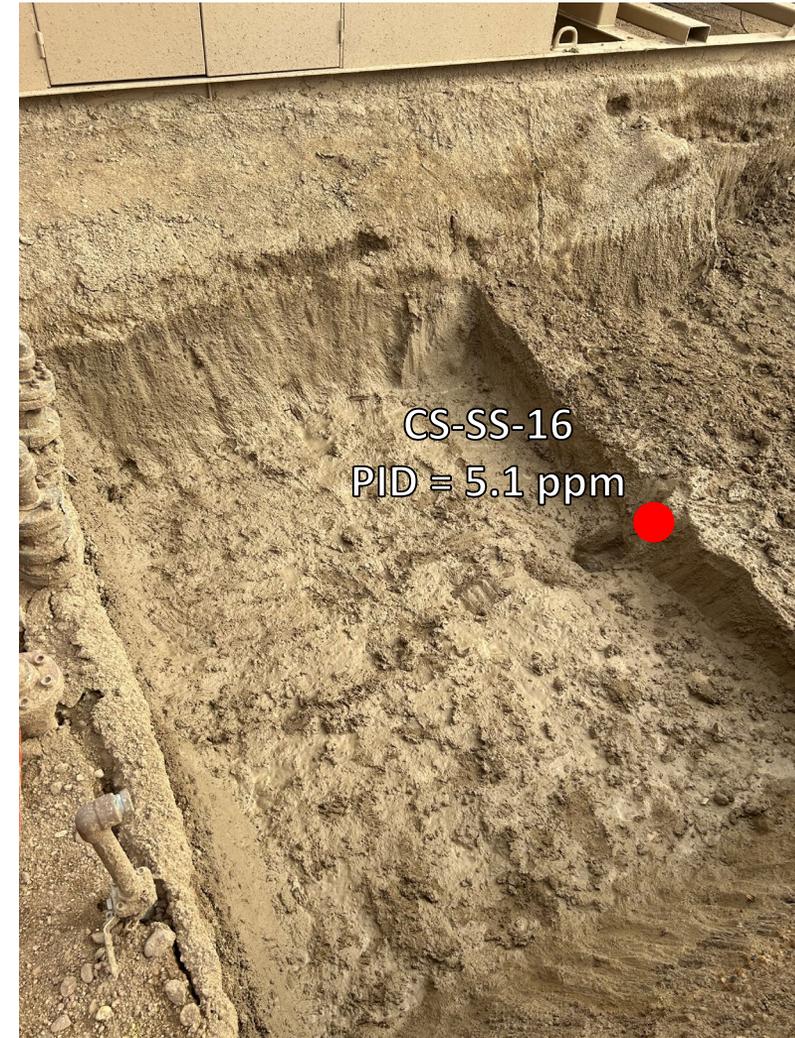
No petroleum hydrocarbon staining or odor observed

Over-Excavation / Confirmation Sampling – 11/03/23



Looking southwest at over-excavation of CS-SS-13 and CS-FS-02

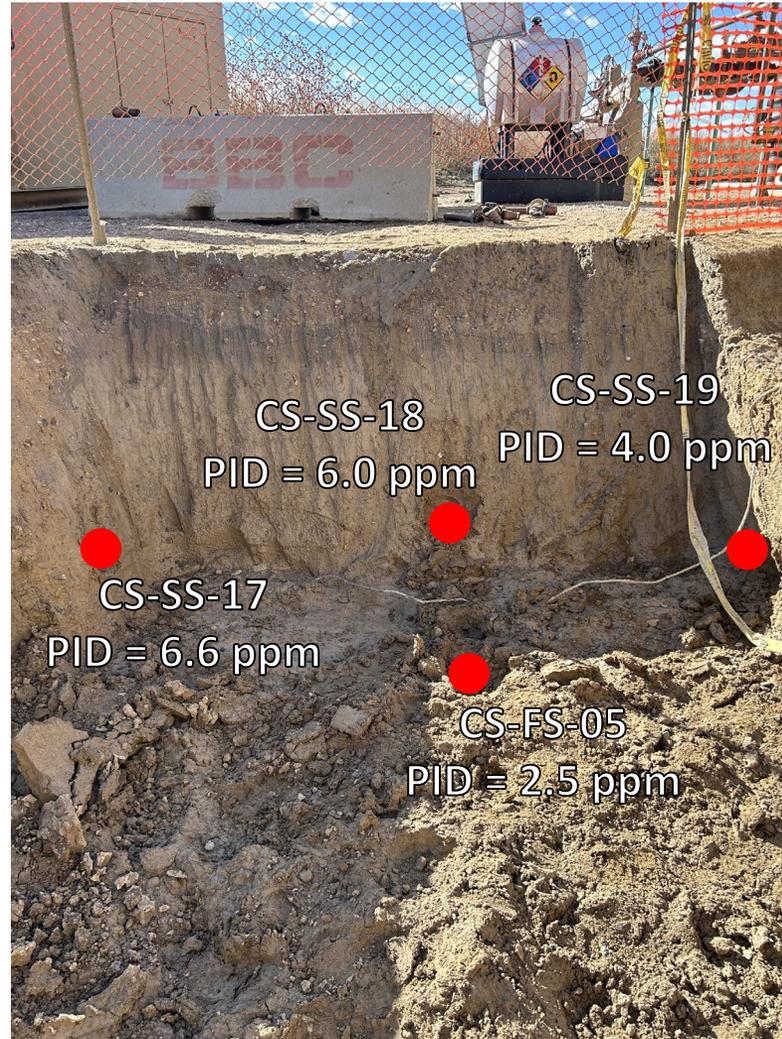
No petroleum hydrocarbon staining or odor observed



Looking north-northeast at over-excavation of CS-FS-02

No petroleum hydrocarbon staining or odor observed

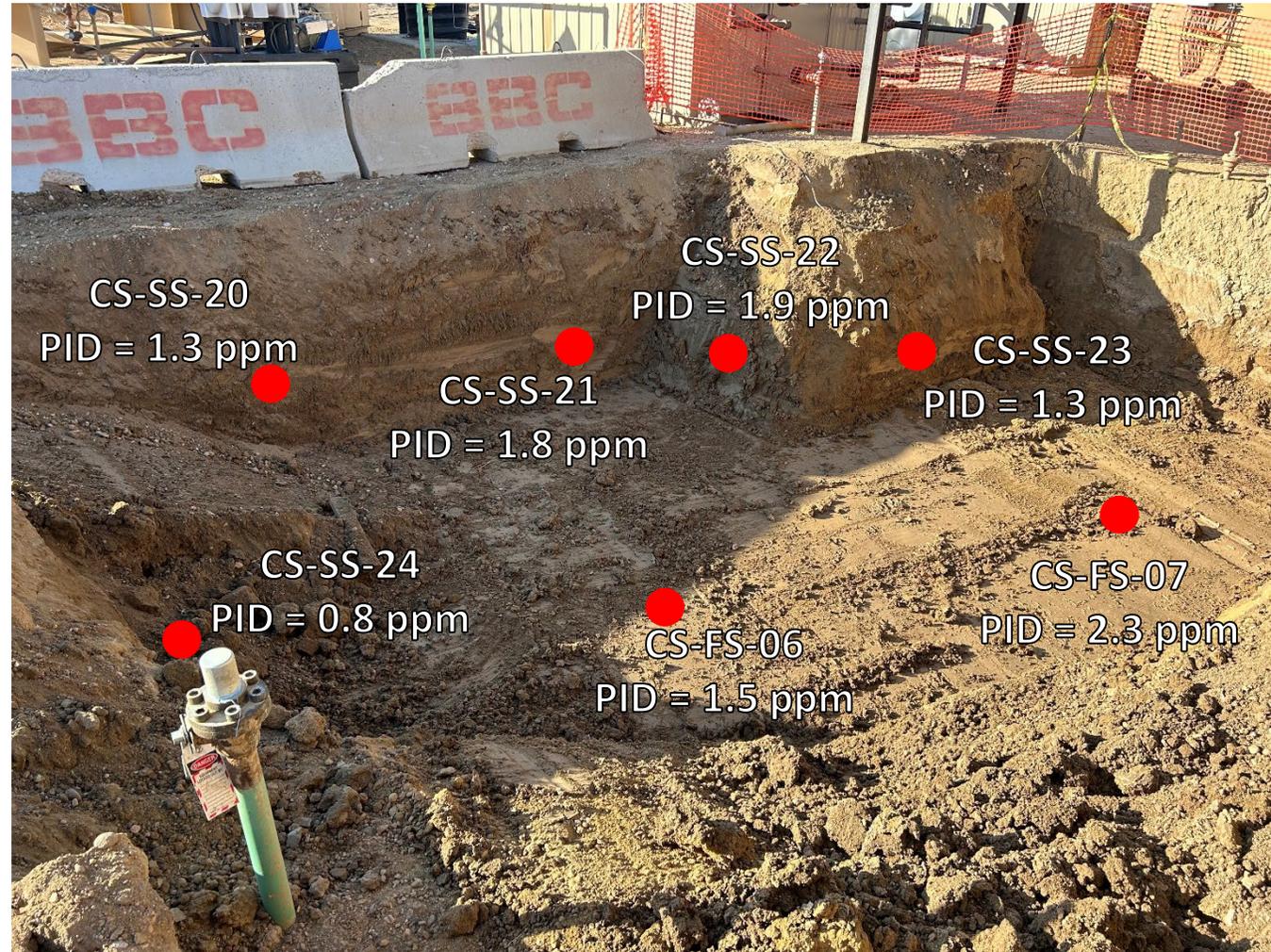
Over-Excavation / Confirmation Sampling – 11/03/23



Looking south at over-excavation of CS-SS-12

No petroleum hydrocarbon staining or odor observed

Over-Excavation / Confirmation Sampling – 12/19/23



Looking south-southwest at over-excavation of CS-SS-16 through CS-SS-19, CS-FS-04, and CS-FS-05

No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Reports

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

October 26, 2023

Andrew Newberry

Eagle Environmental Consulting

8000 W 44th Ave

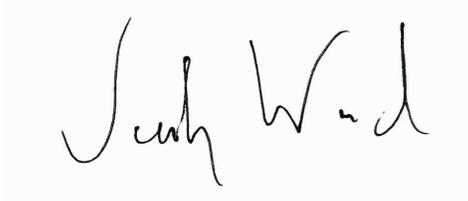
Wheat Ridge, CO 80033

RE: Civitas - Grinde 1-64-5-0108C

Work Order # 2310366

Enclosed are the results of analyses for samples received by Summit Scientific on 10/19/23 13:26. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury

President



Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
10/26/23 12:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS-SS-09@2'	2310366-01	Soil	10/19/23 10:00	10/19/23 13:26
CS-SS-10@2'	2310366-02	Soil	10/19/23 10:05	10/19/23 13:26
CS-SS-11@2'	2310366-03	Soil	10/19/23 10:10	10/19/23 13:26
CS-SS-12@2'	2310366-04	Soil	10/19/23 10:15	10/19/23 13:26
CS-SS-13@2'	2310366-05	Soil	10/19/23 10:20	10/19/23 13:26
CS-SS-14@2'	2310366-06	Soil	10/19/23 11:15	10/19/23 13:26
CS-FS-02@3'	2310366-07	Soil	10/19/23 10:25	10/19/23 13:26
CS-FS-03@4'	2310366-08	Soil	10/19/23 10:30	10/19/23 13:26

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.

Client: <i>Eagle Environmental Consulting</i>		Project Manager: <i>Andrew Newberry</i>		Company: <i>Civitas</i>	
Address: <i>8000 W 44th Ave</i>		E-Mail: <i>anewberry@eagle-enviro.com</i>		Project Name/Location:	
City/State/Zip: <i>Wheat Ridge, CO 80033</i>		Project Name: <i>Grinde 1-04-05-0108C</i>		AFE#:	
Phone: <i>303-433-0479</i>		Project Number: <i>—</i>		PO/Billing Codes:	
Sampler Name: <i>EL</i>				Contact: <i>Costin</i>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Analysis Requested							Special Instructions
					HCl	HNO3	None	Other	Water	Soil		Other	C, ATX, NapH, IMB, -8200	DRO/RLO - 8215	PAHs - 8270D SEM	EC-9050A	SAR-201B	pH-9045D	
1	<i>CS-55-09 @ 2'</i>	<i>10/19/23</i>	<i>1000</i>	<i>2</i>			<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<i>EC, SAR, pH = Saturated paste prep</i>						
2	<i>CS-55-10 @ 2'</i>		<i>1005</i>																
3	<i>CS-55-11 @ 2'</i>		<i>1010</i>																
4	<i>CS-55-12 @ 2'</i>		<i>1015</i>																
5	<i>CS-55-13 @ 2'</i>		<i>1020</i>																
6	<i>CS-55-14 @ 2'</i>		<i>1115</i>																
7	<i>CS-F3-02 @ 3'</i>		<i>1025</i>																
8	<i>CS-F3-03 @ 4'</i>		<i>1030</i>																
9																			<i>*MDLs needed</i>
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: <i>[Signature]</i>	Date/Time: <i>10/19/23 13:22</i>	Received by: <i>Wah Wah</i>	Date/Time: <i>10/19/23 13:26</i>	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	Field Turb.	
Temperature Upon Receipt: <i>11.5</i>	Corrected Temperature	IR gun #:	<i>2</i>	HNO3 lot #:		

S₂

Sample Receipt Checklist

S2 Work Order# 2310366

Client: Eagle Civics Client Project ID: Grinde 1-64-05-0108C

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

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) 11.5 Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ice
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	72 hours
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<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)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

John W. U.
Custodian Printed Name

10/19/23 13:26
Date/Time



Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 10/26/23 12:20

CS-SS-09@2'
2310366-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0828	10/20/23	10/21/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.023	0.50		"	"	"	"	"	"	J

Date Sampled: **10/19/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		116 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		99.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.0 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/19/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	12	50	4.3	mg/kg	1	BGJ0831	10/20/23	10/21/23	EPA 8015M	J
C28-C36 (ORO)	4.8	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/19/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		84.6 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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.



Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 10/26/23 12:20

CS-SS-09@2'
2310366-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/19/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0811	10/20/23	10/21/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	"
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	"
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	"
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	"

Date Sampled: **10/19/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		48.1 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		40.9 %		40-150		"	"	"	"	"

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.401	2.00	0.00690	mg/L	1	BGJ0920	10/24/23	10/24/23	EPA 6020B	J

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

Date Sampled: **10/19/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

Summit Scientific

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 10/26/23 12:20

CS-SS-09@2'
2310366-01 (Soil)

Summit Scientific

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

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	93.2	0.0500		mg/L dry	1	BGJ0859	10/20/23	10/24/23	EPA 6020B	
Magnesium	112	0.0500		"	"	"	"	"	"	
Sodium	696	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/19/23 10:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	11.5	0.00100		units	1	BGJ1066	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/19/23 10:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.9			%	1	BGJ1003	10/25/23	10/25/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/19/23 10:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.57	0.0100	0.00100	mmhos/cm	1	BGJ0890	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/19/23 10:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.44			pH Units	1	BGJ0891	10/23/23	10/23/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
10/26/23 12:20

CS-SS-10@2'
2310366-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/23 10:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0828	10/20/23	10/21/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.031	0.50		"	"	"	"	"	"	J

Date Sampled: **10/19/23 10:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		84.7 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		97.0 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.0 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/19/23 10:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	11	50	4.3	mg/kg	1	BGJ0831	10/20/23	10/21/23	EPA 8015M	J
C28-C36 (ORO)	5.1	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/19/23 10:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		79.4 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
10/26/23 12:20

CS-SS-10@2'
2310366-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/19/23 10:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0811	10/20/23	10/21/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	"
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	"
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	"
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	"

Date Sampled: **10/19/23 10:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		44.8 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		43.6 %		40-150		"	"	"	"	"

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/23 10:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.281	2.00	0.00690	mg/L	1	BGJ0920	10/24/23	10/24/23	EPA 6020B	J

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

Date Sampled: **10/19/23 10:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
10/26/23 12:20

CS-SS-10@2'
2310366-02 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	372	0.0500		mg/L dry	1	BGJ0859	10/20/23	10/24/23	EPA 6020B	
Magnesium	378	0.0500		"	"	"	"	"	"	
Sodium	714	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/19/23 10:05**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.23	0.00100		units	1	BGJ1066	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/19/23 10:05**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.2			%	1	BGJ1003	10/25/23	10/25/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/19/23 10:05**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	6.97	0.0100	0.00100	mmhos/cm	1	BGJ0890	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/19/23 10:05**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.69			pH Units	1	BGJ0891	10/23/23	10/23/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
10/26/23 12:20

CS-SS-11@2'
2310366-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/23 10:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0828	10/20/23	10/21/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.035	0.50		"	"	"	"	"	"	J

Date Sampled: **10/19/23 10:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		93.7 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.4 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/19/23 10:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	15	50	4.3	mg/kg	1	BGJ0831	10/20/23	10/21/23	EPA 8015M	J
C28-C36 (ORO)	5.7	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/19/23 10:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		77.5 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
10/26/23 12:20

CS-SS-11@2'
2310366-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/19/23 10:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0811	10/20/23	10/21/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	"
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	"
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	"
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	"

Date Sampled: **10/19/23 10:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		45.9 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		43.3 %		40-150		"	"	"	"	"

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/23 10:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.234	2.00	0.00690	mg/L	1	BGJ0920	10/24/23	10/24/23	EPA 6020B	J

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

Date Sampled: **10/19/23 10:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

Summit Scientific

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 10/26/23 12:20

CS-SS-11@2'
2310366-03 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	34.1	0.0500		mg/L dry	1	BGJ0859	10/20/23	10/24/23	EPA 6020B	
Magnesium	24.2	0.0500		"	"	"	"	"	"	"
Sodium	204	0.0500		"	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **10/19/23 10:10**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.53	0.00100		units	1	BGJ1066	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/19/23 10:10**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.2			%	1	BGJ1003	10/25/23	10/25/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/19/23 10:10**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.14	0.0100	0.00100	mmhos/cm	1	BGJ0890	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/19/23 10:10**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.56			pH Units	1	BGJ0891	10/23/23	10/23/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
10/26/23 12:20

CS-SS-12@2'
2310366-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/23 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0828	10/20/23	10/21/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.025	0.50		"	"	"	"	"	"	J

Date Sampled: **10/19/23 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		106 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/19/23 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	9.2	50	4.3	mg/kg	1	BGJ0831	10/20/23	10/21/23	EPA 8015M	J
C28-C36 (ORO)	6.0	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/19/23 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		80.3 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
10/26/23 12:20

CS-SS-12@2'
2310366-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/19/23 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0811	10/20/23	10/21/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **10/19/23 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		45.8 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		49.7 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/23 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.399	2.00	0.00690	mg/L	1	BGJ0920	10/24/23	10/24/23	EPA 6020B	J

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

Date Sampled: **10/19/23 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

Summit Scientific

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 10/26/23 12:20

CS-SS-12@2'
2310366-04 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	67.3	0.0500		mg/L dry	1	BGJ0859	10/20/23	10/24/23	EPA 6020B	
Magnesium	57.1	0.0500		"	"	"	"	"	"	
Sodium	396	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/19/23 10:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.58	0.00100		units	1	BGJ1066	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/19/23 10:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.8			%	1	BGJ1003	10/25/23	10/25/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/19/23 10:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.08	0.0100	0.00100	mmhos/cm	1	BGJ0890	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/19/23 10:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.47			pH Units	1	BGJ0891	10/23/23	10/23/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
10/26/23 12:20

CS-SS-13@2'
2310366-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0828	10/20/23	10/21/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.032	0.50		"	"	"	"	"	"	J

Date Sampled: **10/19/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		98.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.2 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/19/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	13	50	4.3	mg/kg	1	BGJ0831	10/20/23	10/21/23	EPA 8015M	J
C28-C36 (ORO)	5.4	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/19/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		82.0 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
10/26/23 12:20

CS-SS-13@2'
2310366-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/19/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0811	10/20/23	10/21/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	"
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	"
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	"
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	"

Date Sampled: **10/19/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		61.9 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		59.2 %		40-150		"	"	"	"	"

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.460	2.00	0.00690	mg/L	1	BGJ0920	10/24/23	10/24/23	EPA 6020B	J

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

Date Sampled: **10/19/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
10/26/23 12:20

CS-SS-13@2'
2310366-05 (Soil)

Summit Scientific

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

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	116	0.0500		mg/L dry	1	BGJ0859	10/20/23	10/24/23	EPA 6020B	
Magnesium	87.5	0.0500		"	"	"	"	"	"	
Sodium	589	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/19/23 10:20**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	10.1	0.00100		units	1	BGJ1066	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/19/23 10:20**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.5			%	1	BGJ1003	10/25/23	10/25/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/19/23 10:20**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.18	0.0100	0.00100	mmhos/cm	1	BGJ0890	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/19/23 10:20**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.30			pH Units	1	BGJ0891	10/23/23	10/23/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
10/26/23 12:20

CS-SS-14@2'
2310366-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0828	10/20/23	10/21/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.029	0.50		"	"	"	"	"	"	J

Date Sampled: **10/19/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		102 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.4 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/19/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	16	50	4.3	mg/kg	1	BGJ0831	10/20/23	10/21/23	EPA 8015M	J
C28-C36 (ORO)	4.7	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/19/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		91.0 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
10/26/23 12:20

CS-SS-14@2'
2310366-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/19/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0811	10/20/23	10/21/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	"
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	"
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	"
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	"

Date Sampled: **10/19/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		53.4 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		51.0 %		40-150		"	"	"	"	"

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.206	2.00	0.00690	mg/L	1	BGJ0920	10/24/23	10/24/23	EPA 6020B	J

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

Date Sampled: **10/19/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 10/26/23 12:20

CS-SS-14@2'
2310366-06 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	58.1	0.0500		mg/L dry	1	BGJ0859	10/20/23	10/24/23	EPA 6020B	
Magnesium	25.2	0.0500		"	"	"	"	"	"	"
Sodium	223	0.0500		"	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **10/19/23 11:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.15	0.00100		units	1	BGJ1066	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/19/23 11:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.3			%	1	BGJ1003	10/25/23	10/25/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/19/23 11:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.18	0.0100	0.00100	mmhos/cm	1	BGJ0890	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/19/23 11:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.47			pH Units	1	BGJ0891	10/23/23	10/23/23	EPA 9045D	

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
10/26/23 12:20

CS-FS-02@3'
2310366-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0828	10/20/23	10/21/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.028	0.50		"	"	"	"	"	"	J

Date Sampled: **10/19/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		108 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		97.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/19/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	16	50	4.3	mg/kg	1	BGJ0831	10/20/23	10/21/23	EPA 8015M	J
C28-C36 (ORO)	5.3	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/19/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		68.2 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
10/26/23 12:20

CS-FS-02@3'
2310366-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/19/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0811	10/20/23	10/21/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	"
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	"
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	"
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	"

Date Sampled: **10/19/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		46.1 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		41.7 %		40-150		"	"	"	"	"

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.332	2.00	0.00690	mg/L	1	BGJ0920	10/24/23	10/24/23	EPA 6020B	J

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

Date Sampled: **10/19/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

Summit Scientific

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 10/26/23 12:20

CS-FS-02@3'
2310366-07 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	143	0.0500		mg/L dry	1	BGJ0859	10/20/23	10/24/23	EPA 6020B	
Magnesium	201	0.0500		"	"	"	"	"	"	
Sodium	1240	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/19/23 10:25**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	15.7	0.00100		units	1	BGJ1066	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/19/23 10:25**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.0			%	1	BGJ1003	10/25/23	10/25/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/19/23 10:25**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.37	0.0100	0.00100	mmhos/cm	1	BGJ0890	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/19/23 10:25**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.54			pH Units	1	BGJ0891	10/23/23	10/23/23	EPA 9045D	

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
10/26/23 12:20

CS-FS-03@4'
2310366-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/23 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0828	10/20/23	10/21/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.037	0.50		"	"	"	"	"	"	J

Date Sampled: **10/19/23 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		95.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.5 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/19/23 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	15	50	4.3	mg/kg	1	BGJ0831	10/20/23	10/21/23	EPA 8015M	J
C28-C36 (ORO)	5.8	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/19/23 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		84.3 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
10/26/23 12:20

CS-FS-03@4'
2310366-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/19/23 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0811	10/20/23	10/21/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	"
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	"
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	"
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	"

Date Sampled: **10/19/23 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		50.4 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		47.1 %		40-150		"	"	"	"	"

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/23 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.144	2.00	0.00690	mg/L	1	BGJ0920	10/24/23	10/24/23	EPA 6020B	J

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

Date Sampled: **10/19/23 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

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Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 10/26/23 12:20

CS-FS-03@4'
2310366-08 (Soil)

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	70.4	0.0500		mg/L dry	1	BGJ0859	10/20/23	10/24/23	EPA 6020B	
Magnesium	58.1	0.0500		"	"	"	"	"	"	
Sodium	310	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/19/23 10:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.62	0.00100		units	1	BGJ1066	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/19/23 10:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.2			%	1	BGJ1003	10/25/23	10/25/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/19/23 10:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.86	0.0100	0.00100	mmhos/cm	1	BGJ0890	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/19/23 10:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.24			pH Units	1	BGJ0891	10/23/23	10/23/23	EPA 9045D	

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Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 10/26/23 12:20

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 BGJ0828 - EPA 5030 Soil MS

Blank (BGJ0828-BLK1)

Prepared & Analyzed: 10/20/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0418		"	0.0400		105	50-150			
<i>Surrogate: Toluene-d8</i>	0.0402		"	0.0400		100	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0382		"	0.0400		95.6	50-150			

LCS (BGJ0828-BS1)

Prepared & Analyzed: 10/20/23

Benzene	0.103	0.0020	mg/kg	0.100		103	70-130			
Toluene	0.103	0.0050	"	0.100		103	70-130			
Ethylbenzene	0.104	0.0050	"	0.100		104	70-130			
m,p-Xylene	0.206	0.010	"	0.200		103	70-130			
o-Xylene	0.0992	0.0050	"	0.100		99.2	70-130			
1,2,4-Trimethylbenzene	0.102	0.0050	"	0.100		102	70-130			
1,3,5-Trimethylbenzene	0.102	0.0050	"	0.100		102	70-130			
Naphthalene	0.0821	0.0038	"	0.100		82.1	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0433		"	0.0400		108	50-150			
<i>Surrogate: Toluene-d8</i>	0.0405		"	0.0400		101	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0418		"	0.0400		105	50-150			

Matrix Spike (BGJ0828-MS1)

Source: 2310112-02

Prepared & Analyzed: 10/20/23

Benzene	0.0906	0.0020	mg/kg	0.100	ND	90.6	70-130			
Toluene	0.0894	0.0050	"	0.100	ND	89.4	70-130			
Ethylbenzene	0.0715	0.0050	"	0.100	ND	71.5	70-130			
m,p-Xylene	0.142	0.010	"	0.200	ND	71.0	70-130			
o-Xylene	0.0748	0.0050	"	0.100	ND	74.8	70-130			
1,2,4-Trimethylbenzene	0.0734	0.0050	"	0.100	ND	73.4	70-130			
1,3,5-Trimethylbenzene	0.0693	0.0050	"	0.100	ND	69.3	70-130			QM-07
Naphthalene	0.102	0.0038	"	0.100	ND	102	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0419		"	0.0400		105	50-150			
<i>Surrogate: Toluene-d8</i>	0.0429		"	0.0400		107	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0316		"	0.0400		79.0	50-150			

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Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 10/26/23 12:20

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 BGJ0828 - EPA 5030 Soil MS

Matrix Spike Dup (BGJ0828-MSD1)	Source: 2310112-02			Prepared & Analyzed: 10/20/23						
Benzene	0.0878	0.0020	mg/kg	0.100	ND	87.8	70-130	3.20	30	
Toluene	0.0877	0.0050	"	0.100	ND	87.7	70-130	2.00	30	
Ethylbenzene	0.0877	0.0050	"	0.100	ND	87.7	70-130	20.4	30	
m,p-Xylene	0.177	0.010	"	0.200	ND	88.5	70-130	21.9	30	
o-Xylene	0.0872	0.0050	"	0.100	ND	87.2	70-130	15.4	30	
1,2,4-Trimethylbenzene	0.0852	0.0050	"	0.100	ND	85.2	70-130	14.9	30	
1,3,5-Trimethylbenzene	0.0844	0.0050	"	0.100	ND	84.4	70-130	19.6	30	
Naphthalene	0.0842	0.0038	"	0.100	ND	84.2	70-130	19.4	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0422</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0395</i>		<i>"</i>	<i>0.0400</i>		<i>98.8</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0425</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>50-150</i>			

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Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 10/26/23 12:20

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGJ0831 - EPA 3550A

Blank (BGJ0831-BLK1)

Prepared: 10/20/23 Analyzed: 10/21/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: <i>o</i> -Terphenyl	14.2		"	12.5		114	30-150			

LCS (BGJ0831-BS1)

Prepared: 10/20/23 Analyzed: 10/21/23

C10-C28 (DRO)	460	50	mg/kg	500		91.9	70-130			
Surrogate: <i>o</i> -Terphenyl	14.9		"	12.5		119	30-150			

Matrix Spike (BGJ0831-MS1)

Source: 2310112-02

Prepared: 10/20/23 Analyzed: 10/21/23

C10-C28 (DRO)	443	50	mg/kg	500	17.2	85.1	70-130			
Surrogate: <i>o</i> -Terphenyl	11.1		"	12.5		89.1	30-150			

Matrix Spike Dup (BGJ0831-MSD1)

Source: 2310112-02

Prepared: 10/20/23 Analyzed: 10/21/23

C10-C28 (DRO)	416	50	mg/kg	500	17.2	79.7	70-130	6.31	20	
Surrogate: <i>o</i> -Terphenyl	9.78		"	12.5		78.2	30-150			

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Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 10/26/23 12:20

PAH by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch BGJ0811 - EPA 5030 Soil MS

Blank (BGJ0811-BLK1)

Prepared: 10/20/23 Analyzed: 10/21/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0270		"	0.0333		81.1	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0294		"	0.0333		88.1	40-150			

LCS (BGJ0811-BS1)

Prepared: 10/20/23 Analyzed: 10/21/23

Acenaphthene	0.0299	0.00500	mg/kg	0.0333		89.8	31-137			
Anthracene	0.0275	0.00500	"	0.0333		82.5	30-120			
Benzo (a) anthracene	0.0250	0.00500	"	0.0333		75.0	30-120			
Benzo (a) pyrene	0.0245	0.00500	"	0.0333		73.4	30-120			
Benzo (b) fluoranthene	0.0246	0.00500	"	0.0333		73.8	30-120			
Benzo (k) fluoranthene	0.0264	0.00500	"	0.0333		79.2	30-120			
Chrysene	0.0268	0.00500	"	0.0333		80.3	30-120			
Dibenz (a,h) anthracene	0.0234	0.00500	"	0.0333		70.2	30-120			
Fluoranthene	0.0270	0.00500	"	0.0333		80.9	30-120			
Fluorene	0.0262	0.00500	"	0.0333		78.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0143	0.00500	"	0.0333		42.9	30-120			
Pyrene	0.0279	0.00500	"	0.0333		83.8	35-142			
1-Methylnaphthalene	0.0279	0.00500	"	0.0333		83.7	35-142			
2-Methylnaphthalene	0.0277	0.00500	"	0.0333		83.0	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0274		"	0.0333		82.3	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0269		"	0.0333		80.7	40-150			

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Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 10/26/23 12:20

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGJ0811 - EPA 5030 Soil MS

Matrix Spike (BGJ0811-MS1)	Source: 2310366-01			Prepared: 10/20/23 Analyzed: 10/21/23					
Acenaphthene	0.0183	0.00500	mg/kg	0.0333	ND	54.8	31-137		
Anthracene	0.0192	0.00500	"	0.0333	ND	57.6	30-120		
Benzo (a) anthracene	0.0171	0.00500	"	0.0333	ND	51.4	30-120		
Benzo (a) pyrene	0.0163	0.00500	"	0.0333	ND	48.9	30-120		
Benzo (b) fluoranthene	0.0170	0.00500	"	0.0333	ND	50.9	30-120		
Benzo (k) fluoranthene	0.0177	0.00500	"	0.0333	ND	53.2	30-120		
Chrysene	0.0185	0.00500	"	0.0333	ND	55.5	30-120		
Dibenz (a,h) anthracene	0.0153	0.00500	"	0.0333	ND	45.8	30-120		
Fluoranthene	0.0193	0.00500	"	0.0333	ND	57.9	30-120		
Fluorene	0.0179	0.00500	"	0.0333	ND	53.6	30-120		
Indeno (1,2,3-cd) pyrene	0.0164	0.00500	"	0.0333	ND	49.3	30-120		
Pyrene	0.0193	0.00500	"	0.0333	ND	57.8	35-142		
1-Methylnaphthalene	0.0182	0.00500	"	0.0333	ND	54.5	15-130		
2-Methylnaphthalene	0.0184	0.00500	"	0.0333	ND	55.2	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0195		"	0.0333		58.6	40-150		
Surrogate: Fluoranthene-d10	0.0195		"	0.0333		58.4	40-150		

Matrix Spike Dup (BGJ0811-MSD1)	Source: 2310366-01			Prepared: 10/20/23 Analyzed: 10/21/23					
Acenaphthene	0.0151	0.00500	mg/kg	0.0333	ND	45.3	31-137	19.0	30
Anthracene	0.0165	0.00500	"	0.0333	ND	49.6	30-120	14.9	30
Benzo (a) anthracene	0.0144	0.00500	"	0.0333	ND	43.1	30-120	17.4	30
Benzo (a) pyrene	0.0136	0.00500	"	0.0333	ND	40.8	30-120	18.1	30
Benzo (b) fluoranthene	0.0144	0.00500	"	0.0333	ND	43.1	30-120	16.5	30
Benzo (k) fluoranthene	0.0148	0.00500	"	0.0333	ND	44.5	30-120	17.9	30
Chrysene	0.0155	0.00500	"	0.0333	ND	46.6	30-120	17.4	30
Dibenz (a,h) anthracene	0.0148	0.00500	"	0.0333	ND	44.3	30-120	3.31	30
Fluoranthene	0.0166	0.00500	"	0.0333	ND	49.9	30-120	14.9	30
Fluorene	0.0152	0.00500	"	0.0333	ND	45.5	30-120	16.4	30
Indeno (1,2,3-cd) pyrene	0.0141	0.00500	"	0.0333	ND	42.2	30-120	15.6	30
Pyrene	0.0161	0.00500	"	0.0333	ND	48.4	35-142	17.6	30
1-Methylnaphthalene	0.0153	0.00500	"	0.0333	ND	46.0	15-130	16.8	50
2-Methylnaphthalene	0.0152	0.00500	"	0.0333	ND	45.7	15-130	19.0	50
Surrogate: 2-Methylnaphthalene-d10	0.0159		"	0.0333		47.6	40-150		
Surrogate: Fluoranthene-d10	0.0168		"	0.0333		50.3	40-150		

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Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 10/26/23 12:20

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

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

Batch BGJ0920 - EPA 3050B

Blank (BGJ0920-BLK1)

Prepared & Analyzed: 10/24/23

Boron ND 2.00 mg/L

LCS (BGJ0920-BS1)

Prepared & Analyzed: 10/24/23

Boron 4.20 2.00 mg/L 5.00 84.0 80-120

Duplicate (BGJ0920-DUP1)

Source: 2310190-01

Prepared & Analyzed: 10/24/23

Boron 0.175 2.00 mg/L 0.202 14.0 20 J

Matrix Spike (BGJ0920-MS1)

Source: 2310190-01

Prepared & Analyzed: 10/24/23

Boron 4.56 2.00 mg/L 5.00 0.202 87.2 75-125

Matrix Spike Dup (BGJ0920-MSD1)

Source: 2310190-01

Prepared & Analyzed: 10/24/23

Boron 4.59 2.00 mg/L 5.00 0.202 87.8 75-125 0.654 25

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.



Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 10/26/23 12:20

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

Summit Scientific

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

Batch BGJ0859 - General Preparation

Blank (BGJ0859-BLK1)

Prepared: 10/20/23 Analyzed: 10/24/23

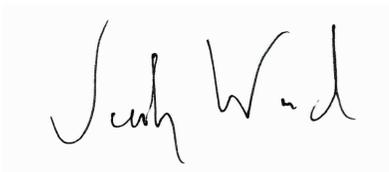
Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

LCS (BGJ0859-BS1)

Prepared: 10/20/23 Analyzed: 10/24/23

Calcium	5.54	0.0500	mg/L wet	5.00	111	70-130				
Magnesium	5.76	0.0500	"	5.00	115	70-130				
Sodium	5.53	0.0500	"	5.00	111	70-130				

Summit Scientific



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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 10/26/23 12:20

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

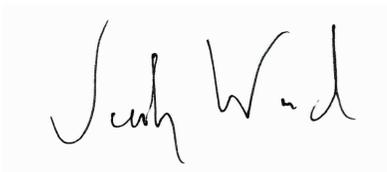
Summit Scientific

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

Batch BGJ1003 - General Preparation

Duplicate (BGJ1003-DUP1)		Source: 2310337-01			Prepared & Analyzed: 10/25/23			
% Solids	84.3		%		84.3		0.0135	20

Summit Scientific



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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 10/26/23 12:20

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

Summit Scientific

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

Batch BGJ0890 - General Preparation

Blank (BGJ0890-BLK1)

Prepared & Analyzed: 10/23/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGJ0890-BS1)

Prepared & Analyzed: 10/23/23

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 95-105

Duplicate (BGJ0890-DUP1)

Source: 2310291-01

Prepared & Analyzed: 10/23/23

Specific Conductance (EC) 1.53 0.0100 mmhos/cm 1.54 0.845 20

Summit Scientific

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 10/26/23 12:20

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

Summit Scientific

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

Batch BGJ0891 - General Preparation

LCS (BGJ0891-BS1)

Prepared & Analyzed: 10/23/23

pH	9.15	pH Units	9.18	99.7	95-105
----	------	----------	------	------	--------

Duplicate (BGJ0891-DUP1)

Source: 2310291-01

Prepared & Analyzed: 10/23/23

pH	8.08	pH Units	8.07	0.124	20
----	------	----------	------	-------	----

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
10/26/23 12:20

Notes and Definitions

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

J Detected but below the Reporting Limit; therefore, result is an estimated concentration

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

November 15, 2023

Andrew Newberry

Eagle Environmental Consulting

8000 W 44th Ave

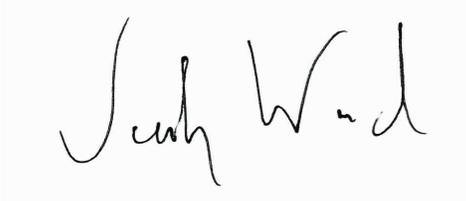
Wheat Ridge, CO 80033

RE: Civitas - Grinde 1-64-5-0108C

Work Order # 2311091

Enclosed are the results of analyses for samples received by Summit Scientific on 11/03/23 13:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury

President



Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/15/23 11:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS-SS-15@4'	2311091-01	Soil	11/03/23 10:40	11/03/23 13:15
CS-SS-16@4.5'	2311091-02	Soil	11/03/23 10:44	11/03/23 13:15
CS-SS-17@3'	2311091-03	Soil	11/03/23 10:48	11/03/23 13:15
CS-SS-18@3'	2311091-04	Soil	11/03/23 10:52	11/03/23 13:15
CS-SS-19@3'	2311091-05	Soil	11/03/23 10:56	11/03/23 13:15
CS-FS-04@5'	2311091-06	Soil	11/03/23 11:00	11/03/23 13:15
CS-FS-05@4'	2311091-07	Soil	11/03/23 11:04	11/03/23 13:15

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.

Client: <i>Eagle Environmental Consulting</i>		Project Manager: <i>Andrew Newberry</i>		Company: <i>Civitas</i>	
Address: <i>8000 W 44th Ave</i>		E-Mail: <i>anewberry@eagle-env.com</i>		Project Name/Location:	
City/State/Zip: <i>Wheat Ridge, CO 80033</i>		Project Name: <i>Grinde 1-104-05 0108C</i>		AFE#:	
Phone: <i>303-433-0479</i>		Project Number: <i>_____</i>		PO/Billing Codes:	
Sampler Name: <i>EL</i>				Contact: <i>Costin</i>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested							Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	C, BTEX, NapH, PAHs - 82100D	DRIFPRO - 8015D	PAHs - 82300D SIA	EC-9050A	SAR-20B		PH-9045D	Korona - DTPA Sorbitol
1	<i>CS-SS-15@4'</i>	<i>11/3/23</i>	<i>1040</i>	<i>2</i>			<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<i>EC, SAR, pH = Saturated paste prep</i>						
2	<i>CS-SS-110@4.5'</i>		<i>1044</i>																	
3	<i>CS-SS-17@3'</i>		<i>1048</i>																	
4	<i>CS-SS-18@3'</i>		<i>1052</i>																	
5	<i>CS-SS-19@3'</i>		<i>1056</i>																	<i>*MDLs needed</i>
6	<i>CS-FS-04@5'</i>		<i>1100</i>																	
7	<i>CS-FS-05@4'</i>		<i>1104</i>																	
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by: <i>[Signature]</i>	Date/Time: <i>11/3/23 13:12</i>	Received by: <i>John W. d.</i>	Date/Time: <i>11/3/23 13:15</i>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <i>6.8</i>	Corrected Temperature	IR gun #: <i>2</i>	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2311091

Client: Eagle civitas Client Project ID: Grinde 1-64-05 0108C

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

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on file
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	72 hours
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<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)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

John Wood
Custodian Printed Name

11/3/23 13:15
Date/Time



Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/15/23 11:17

CS-SS-15@4'
2311091-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/03/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGK0164	11/06/23	11/07/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.083	0.50		"	"	"	"	"	"	J

Date Sampled: **11/03/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		110 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		98.0 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.6 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/03/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	20	50	4.3	mg/kg	1	BGK0168	11/06/23	11/08/23	EPA 8015M	J
C28-C36 (ORO)	6.6	50	4.3	"	"	"	"	"	"	J

Date Sampled: **11/03/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		120 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/15/23 11:17

CS-SS-15@4'
2311091-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/03/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGK0153	11/06/23	11/06/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	"
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	"
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	"
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	"

Date Sampled: **11/03/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		57.3 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		59.9 %		40-150		"	"	"	"	"

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/03/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.391	2.00	0.00690	mg/L	1	BGK0294	11/08/23	11/09/23	EPA 6020B	J

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

Date Sampled: **11/03/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

Summit Scientific

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 11/15/23 11:17

CS-SS-15@4'
2311091-01 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	89.2	0.0500		mg/L dry	1	BGK0247	11/07/23	11/09/23	EPA 6020B	
Magnesium	61.1	0.0500		"	"	"	"	"	"	
Sodium	402	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/03/23 10:40**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.03	0.00100		units	1	BGK0560	11/15/23	11/15/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/03/23 10:40**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.7			%	1	BGK0301	11/08/23	11/08/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/03/23 10:40**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.43	0.0100	0.00100	mmhos/cm	1	BGK0256	11/08/23	11/08/23	EPA 120.1	

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

Date Sampled: **11/03/23 10:40**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.03			pH Units	1	BGK0260	11/08/23	11/08/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/15/23 11:17

CS-SS-16@4.5'
2311091-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/03/23 10:44**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGK0164	11/06/23	11/07/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.084	0.50		"	"	"	"	"	"	J

Date Sampled: **11/03/23 10:44**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		109 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.9 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/03/23 10:44**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	19	50	4.3	mg/kg	1	BGK0168	11/06/23	11/08/23	EPA 8015M	J
C28-C36 (ORO)	6.2	50	4.3	"	"	"	"	"	"	J

Date Sampled: **11/03/23 10:44**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		103 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/15/23 11:17

CS-SS-16@4.5'
2311091-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/03/23 10:44**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGK0153	11/06/23	11/06/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	"
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	"
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	"
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	"

Date Sampled: **11/03/23 10:44**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		54.6 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		54.0 %		40-150		"	"	"	"	"

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/03/23 10:44**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.364	2.00	0.00690	mg/L	1	BGK0294	11/08/23	11/09/23	EPA 6020B	J

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

Date Sampled: **11/03/23 10:44**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

Summit Scientific

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 11/15/23 11:17

CS-SS-16@4.5'
2311091-02 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	54.9	0.0500		mg/L dry	1	BGK0247	11/07/23	11/09/23	EPA 6020B	
Magnesium	79.2	0.0500		"	"	"	"	"	"	
Sodium	664	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/03/23 10:44**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	13.4	0.00100		units	1	BGK0560	11/15/23	11/15/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/03/23 10:44**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.9			%	1	BGK0301	11/08/23	11/08/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/03/23 10:44**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.06	0.0100	0.00100	mmhos/cm	1	BGK0256	11/08/23	11/08/23	EPA 120.1	

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

Date Sampled: **11/03/23 10:44**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.17			pH Units	1	BGK0260	11/08/23	11/08/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/15/23 11:17

CS-SS-17@3'
2311091-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/03/23 10:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGK0164	11/06/23	11/07/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.084	0.50		"	"	"	"	"	"	J

Date Sampled: **11/03/23 10:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		112 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/03/23 10:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	17	50	4.3	mg/kg	1	BGK0168	11/06/23	11/08/23	EPA 8015M	J
C28-C36 (ORO)	6.2	50	4.3	"	"	"	"	"	"	J

Date Sampled: **11/03/23 10:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		88.4 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/15/23 11:17

CS-SS-17@3'
2311091-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/03/23 10:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGK0153	11/06/23	11/06/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **11/03/23 10:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		59.2 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		61.1 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/03/23 10:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.387	2.00	0.00690	mg/L	1	BGK0294	11/08/23	11/09/23	EPA 6020B	J

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

Date Sampled: **11/03/23 10:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

Summit Scientific

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 11/15/23 11:17

CS-SS-17@3'
2311091-03 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	26.3	0.0500		mg/L dry	1	BGK0247	11/07/23	11/09/23	EPA 6020B	
Magnesium	30.3	0.0500		"	"	"	"	"	"	
Sodium	285	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/03/23 10:48**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.99	0.00100		units	1	BGK0560	11/15/23	11/15/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/03/23 10:48**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	101			%	1	BGK0301	11/08/23	11/08/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/03/23 10:48**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.98	0.0100	0.00100	mmhos/cm	1	BGK0256	11/08/23	11/08/23	EPA 120.1	

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

Date Sampled: **11/03/23 10:48**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.34			pH Units	1	BGK0260	11/08/23	11/08/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/15/23 11:17

CS-SS-18@3'
2311091-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/03/23 10:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGK0164	11/06/23	11/07/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.084	0.50		"	"	"	"	"	"	J

Date Sampled: **11/03/23 10:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		110 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		96.9 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.9 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/03/23 10:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	17	50	4.3	mg/kg	1	BGK0168	11/06/23	11/08/23	EPA 8015M	J
C28-C36 (ORO)	6.6	50	4.3	"	"	"	"	"	"	J

Date Sampled: **11/03/23 10:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		102 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/15/23 11:17

CS-SS-18@3'
2311091-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/03/23 10:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGK0153	11/06/23	11/06/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	"
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	"
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	"
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	"

Date Sampled: **11/03/23 10:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		52.6 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		52.9 %		40-150		"	"	"	"	"

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/03/23 10:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.437	2.00	0.00690	mg/L	1	BGK0294	11/08/23	11/09/23	EPA 6020B	J

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

Date Sampled: **11/03/23 10:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

Summit Scientific

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 11/15/23 11:17

CS-SS-18@3'
2311091-04 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	29.7	0.0500		mg/L dry	1	BGK0247	11/07/23	11/09/23	EPA 6020B	
Magnesium	33.2	0.0500		"	"	"	"	"	"	"
Sodium	455	0.0500		"	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **11/03/23 10:52**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	13.6	0.00100		units	1	BGK0560	11/15/23	11/15/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/03/23 10:52**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.3			%	1	BGK0301	11/08/23	11/08/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/03/23 10:52**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.14	0.0100	0.00100	mmhos/cm	1	BGK0256	11/08/23	11/08/23	EPA 120.1	

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

Date Sampled: **11/03/23 10:52**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.35			pH Units	1	BGK0260	11/08/23	11/08/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/15/23 11:17

CS-SS-19@3'
2311091-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/03/23 10:56**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGK0164	11/06/23	11/07/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.083	0.50		"	"	"	"	"	"	J

Date Sampled: **11/03/23 10:56**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		108 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		96.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.6 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/03/23 10:56**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	13	50	4.3	mg/kg	1	BGK0168	11/06/23	11/08/23	EPA 8015M	J
C28-C36 (ORO)	8.2	50	4.3	"	"	"	"	"	"	J

Date Sampled: **11/03/23 10:56**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		104 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/15/23 11:17

CS-SS-19@3'
2311091-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/03/23 10:56**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGK0153	11/06/23	11/06/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	"
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	"
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	"
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	"

Date Sampled: **11/03/23 10:56**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		50.5 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		50.8 %		40-150		"	"	"	"	"

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/03/23 10:56**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.527	2.00	0.00690	mg/L	1	BGK0294	11/08/23	11/09/23	EPA 6020B	J

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

Date Sampled: **11/03/23 10:56**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/15/23 11:17

CS-SS-19@3'
2311091-05 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	56.7	0.0500		mg/L dry	1	BGK0247	11/07/23	11/09/23	EPA 6020B	
Magnesium	69.4	0.0500		"	"	"	"	"	"	
Sodium	574	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/03/23 10:56**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	12.1	0.00100		units	1	BGK0560	11/15/23	11/15/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/03/23 10:56**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.2			%	1	BGK0301	11/08/23	11/08/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/03/23 10:56**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.86	0.0100	0.00100	mmhos/cm	1	BGK0256	11/08/23	11/08/23	EPA 120.1	

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

Date Sampled: **11/03/23 10:56**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.24			pH Units	1	BGK0260	11/08/23	11/08/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/15/23 11:17

CS-FS-04@5'
2311091-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/03/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGK0164	11/06/23	11/07/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.083	0.50		"	"	"	"	"	"	J

Date Sampled: **11/03/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		111 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		98.0 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.2 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/03/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	17	50	4.3	mg/kg	1	BGK0168	11/06/23	11/08/23	EPA 8015M	J
C28-C36 (ORO)	12	50	4.3	"	"	"	"	"	"	J

Date Sampled: **11/03/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		69.7 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/15/23 11:17

CS-FS-04@5'
2311091-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/03/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGK0153	11/06/23	11/06/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	"
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	"
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	"
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	"

Date Sampled: **11/03/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		52.3 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		52.8 %		40-150		"	"	"	"	"

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/03/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.450	2.00	0.00690	mg/L	1	BGK0294	11/08/23	11/09/23	EPA 6020B	J

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

Date Sampled: **11/03/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/15/23 11:17

CS-FS-04@5'
2311091-06 (Soil)

Summit Scientific

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

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	117	0.0500		mg/L dry	1	BGK0247	11/07/23	11/09/23	EPA 6020B	
Magnesium	193	0.0500		"	"	"	"	"	"	
Sodium	1450	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/03/23 11:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	19.1	0.00100		units	1	BGK0560	11/15/23	11/15/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/03/23 11:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	76.8			%	1	BGK0301	11/08/23	11/08/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/03/23 11:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.92	0.0100	0.00100	mmhos/cm	1	BGK0256	11/08/23	11/08/23	EPA 120.1	

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

Date Sampled: **11/03/23 11:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.25			pH Units	1	BGK0260	11/08/23	11/08/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/15/23 11:17

CS-FS-05@4'
2311091-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/03/23 11:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGK0164	11/06/23	11/07/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.083	0.50		"	"	"	"	"	"	J

Date Sampled: **11/03/23 11:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		112 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		98.3 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.1 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/03/23 11:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	21	50	4.3	mg/kg	1	BGK0168	11/06/23	11/08/23	EPA 8015M	J
C28-C36 (ORO)	8.2	50	4.3	"	"	"	"	"	"	J

Date Sampled: **11/03/23 11:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		83.8 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/15/23 11:17

CS-FS-05@4'
2311091-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/03/23 11:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGK0153	11/06/23	11/06/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	"
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	"
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	"
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	"

Date Sampled: **11/03/23 11:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		49.3 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		50.5 %		40-150		"	"	"	"	"

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/03/23 11:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.274	2.00	0.00690	mg/L	1	BGK0294	11/08/23	11/09/23	EPA 6020B	J

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

Date Sampled: **11/03/23 11:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

Summit Scientific

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 11/15/23 11:17

CS-FS-05@4'
2311091-07 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	32.5	0.0500		mg/L dry	1	BGK0247	11/07/23	11/09/23	EPA 6020B	
Magnesium	31.3	0.0500		"	"	"	"	"	"	
Sodium	282	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/03/23 11:04**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.47	0.00100		units	1	BGK0560	11/15/23	11/15/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/03/23 11:04**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.2			%	1	BGK0301	11/08/23	11/08/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/03/23 11:04**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.74	0.0100	0.00100	mmhos/cm	1	BGK0256	11/08/23	11/08/23	EPA 120.1	

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

Date Sampled: **11/03/23 11:04**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.26			pH Units	1	BGK0260	11/08/23	11/08/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/15/23 11:17

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 BGK0164 - EPA 5030 Soil MS

Blank (BGK0164-BLK1)

Prepared & Analyzed: 11/06/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0438		"	0.0400		110	50-150			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0422		"	0.0400		105	50-150			

LCS (BGK0164-BS1)

Prepared & Analyzed: 11/06/23

Benzene	0.102	0.0020	mg/kg	0.100		102	70-130			
Toluene	0.0952	0.0050	"	0.100		95.2	70-130			
Ethylbenzene	0.0932	0.0050	"	0.100		93.2	70-130			
m,p-Xylene	0.184	0.010	"	0.200		91.9	70-130			
o-Xylene	0.0898	0.0050	"	0.100		89.8	70-130			
1,2,4-Trimethylbenzene	0.0917	0.0050	"	0.100		91.7	70-130			
1,3,5-Trimethylbenzene	0.0911	0.0050	"	0.100		91.1	70-130			
Naphthalene	0.111	0.0038	"	0.100		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0423		"	0.0400		106	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		99.9	50-150			
Surrogate: 4-Bromofluorobenzene	0.0401		"	0.0400		100	50-150			

Matrix Spike (BGK0164-MS1)

Source: 2310243-01

Prepared & Analyzed: 11/06/23

Benzene	0.0878	0.0020	mg/kg	0.100	ND	87.8	70-130			
Toluene	0.0806	0.0050	"	0.100	ND	80.6	70-130			
Ethylbenzene	0.0791	0.0050	"	0.100	ND	79.1	70-130			
m,p-Xylene	0.154	0.010	"	0.200	ND	77.0	70-130			
o-Xylene	0.0751	0.0050	"	0.100	ND	75.1	70-130			
1,2,4-Trimethylbenzene	0.0687	0.0050	"	0.100	ND	68.7	70-130			QM-05
1,3,5-Trimethylbenzene	0.0680	0.0050	"	0.100	ND	68.0	70-130			QM-05
Naphthalene	0.0810	0.0038	"	0.100	ND	81.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0446		"	0.0400		112	50-150			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.8	50-150			

Summit Scientific

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 11/15/23 11:17

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 BGK0164 - EPA 5030 Soil MS

Matrix Spike Dup (BGK0164-MSD1)	Source: 2310243-01			Prepared & Analyzed: 11/06/23						
Benzene	0.0872	0.0020	mg/kg	0.100	ND	87.2	70-130	0.754	30	
Toluene	0.0820	0.0050	"	0.100	ND	82.0	70-130	1.85	30	
Ethylbenzene	0.0787	0.0050	"	0.100	ND	78.7	70-130	0.533	30	
m,p-Xylene	0.153	0.010	"	0.200	ND	76.4	70-130	0.802	30	
o-Xylene	0.0753	0.0050	"	0.100	ND	75.3	70-130	0.239	30	
1,2,4-Trimethylbenzene	0.0691	0.0050	"	0.100	ND	69.1	70-130	0.566	30	QM-05
1,3,5-Trimethylbenzene	0.0686	0.0050	"	0.100	ND	68.6	70-130	0.966	30	QM-05
Naphthalene	0.0810	0.0038	"	0.100	ND	81.0	70-130	0.00	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0436</i>		<i>"</i>	<i>0.0400</i>		<i>109</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0401</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0398</i>		<i>"</i>	<i>0.0400</i>		<i>99.6</i>	<i>50-150</i>			

Summit Scientific

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 11/15/23 11:17

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGK0168 - EPA 3550A

Blank (BGK0168-BLK1)

Prepared: 11/06/23 Analyzed: 11/07/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: <i>o</i> -Terphenyl	15.8		"	12.5		126		30-150		

LCS (BGK0168-BS1)

Prepared: 11/06/23 Analyzed: 11/07/23

C10-C28 (DRO)	498	50	mg/kg	500		99.6		70-130		
Surrogate: <i>o</i> -Terphenyl	14.1		"	12.5		113		30-150		

Matrix Spike (BGK0168-MS1)

Source: 2310243-01

Prepared: 11/06/23 Analyzed: 11/07/23

C10-C28 (DRO)	526	50	mg/kg	500	34.2	98.4		70-130		
Surrogate: <i>o</i> -Terphenyl	6.67		"	12.5		53.4		30-150		

Matrix Spike Dup (BGK0168-MSD1)

Source: 2310243-01

Prepared: 11/06/23 Analyzed: 11/07/23

C10-C28 (DRO)	495	50	mg/kg	500	34.2	92.1		70-130	6.18	20
Surrogate: <i>o</i> -Terphenyl	8.18		"	12.5		65.4		30-150		

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/15/23 11:17

PAH by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch BGK0153 - EPA 5030 Soil MS

Blank (BGK0153-BLK1)

Prepared & Analyzed: 11/06/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0314</i>		"	<i>0.0333</i>		<i>94.3</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0312</i>		"	<i>0.0333</i>		<i>93.5</i>	<i>40-150</i>			

LCS (BGK0153-BS1)

Prepared & Analyzed: 11/06/23

Acenaphthene	0.0288	0.00500	mg/kg	0.0333		86.5	31-137			
Anthracene	0.0287	0.00500	"	0.0333		86.0	30-120			
Benzo (a) anthracene	0.0285	0.00500	"	0.0333		85.5	30-120			
Benzo (a) pyrene	0.0286	0.00500	"	0.0333		85.9	30-120			
Benzo (b) fluoranthene	0.0290	0.00500	"	0.0333		86.9	30-120			
Benzo (k) fluoranthene	0.0282	0.00500	"	0.0333		84.7	30-120			
Chrysene	0.0294	0.00500	"	0.0333		88.2	30-120			
Dibenz (a,h) anthracene	0.0268	0.00500	"	0.0333		80.3	30-120			
Fluoranthene	0.0288	0.00500	"	0.0333		86.4	30-120			
Fluorene	0.0297	0.00500	"	0.0333		89.0	30-120			
Indeno (1,2,3-cd) pyrene	0.0207	0.00500	"	0.0333		62.1	30-120			
Pyrene	0.0288	0.00500	"	0.0333		86.5	35-142			
1-Methylnaphthalene	0.0303	0.00500	"	0.0333		90.8	35-142			
2-Methylnaphthalene	0.0279	0.00500	"	0.0333		83.7	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0297</i>		"	<i>0.0333</i>		<i>89.0</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0296</i>		"	<i>0.0333</i>		<i>88.7</i>	<i>40-150</i>			

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.



Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/15/23 11:17

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGK0153 - EPA 5030 Soil MS

Matrix Spike (BGK0153-MS1)	Source: 2311091-01			Prepared & Analyzed: 11/06/23						
Acenaphthene	0.0218	0.00500	mg/kg	0.0333	ND	65.5	31-137			
Anthracene	0.0201	0.00500	"	0.0333	ND	60.3	30-120			
Benzo (a) anthracene	0.0207	0.00500	"	0.0333	ND	62.0	30-120			
Benzo (a) pyrene	0.0204	0.00500	"	0.0333	ND	61.1	30-120			
Benzo (b) fluoranthene	0.0207	0.00500	"	0.0333	ND	62.2	30-120			
Benzo (k) fluoranthene	0.0201	0.00500	"	0.0333	ND	60.3	30-120			
Chrysene	0.0212	0.00500	"	0.0333	ND	63.5	30-120			
Dibenz (a,h) anthracene	0.0182	0.00500	"	0.0333	ND	54.6	30-120			
Fluoranthene	0.0201	0.00500	"	0.0333	ND	60.3	30-120			
Fluorene	0.0203	0.00500	"	0.0333	ND	60.8	30-120			
Indeno (1,2,3-cd) pyrene	0.0152	0.00500	"	0.0333	ND	45.7	30-120			
Pyrene	0.0215	0.00500	"	0.0333	ND	64.6	35-142			
1-Methylnaphthalene	0.0204	0.00500	"	0.0333	ND	61.2	15-130			
2-Methylnaphthalene	0.0203	0.00500	"	0.0333	ND	60.9	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0206		"	0.0333		61.9	40-150			
Surrogate: Fluoranthene-d10	0.0211		"	0.0333		63.2	40-150			

Matrix Spike Dup (BGK0153-MSD1)	Source: 2311091-01			Prepared & Analyzed: 11/06/23						
Acenaphthene	0.0177	0.00500	mg/kg	0.0333	ND	53.1	31-137	20.9	30	
Anthracene	0.0172	0.00500	"	0.0333	ND	51.6	30-120	15.6	30	
Benzo (a) anthracene	0.0173	0.00500	"	0.0333	ND	52.0	30-120	17.7	30	
Benzo (a) pyrene	0.0167	0.00500	"	0.0333	ND	50.2	30-120	19.5	30	
Benzo (b) fluoranthene	0.0170	0.00500	"	0.0333	ND	51.0	30-120	19.7	30	
Benzo (k) fluoranthene	0.0164	0.00500	"	0.0333	ND	49.1	30-120	20.5	30	
Chrysene	0.0178	0.00500	"	0.0333	ND	53.3	30-120	17.5	30	
Dibenz (a,h) anthracene	0.0152	0.00500	"	0.0333	ND	45.6	30-120	18.0	30	
Fluoranthene	0.0175	0.00500	"	0.0333	ND	52.6	30-120	13.7	30	
Fluorene	0.0162	0.00500	"	0.0333	ND	48.7	30-120	22.1	30	
Indeno (1,2,3-cd) pyrene	0.0126	0.00500	"	0.0333	ND	37.7	30-120	19.1	30	
Pyrene	0.0177	0.00500	"	0.0333	ND	53.2	35-142	19.4	30	
1-Methylnaphthalene	0.0172	0.00500	"	0.0333	ND	51.5	15-130	17.3	50	
2-Methylnaphthalene	0.0168	0.00500	"	0.0333	ND	50.5	15-130	18.8	50	
Surrogate: 2-Methylnaphthalene-d10	0.0181		"	0.0333		54.4	40-150			
Surrogate: Fluoranthene-d10	0.0185		"	0.0333		55.5	40-150			

Summit Scientific

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 11/15/23 11:17

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

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

Batch BGK0294 - EPA 3050B

Blank (BGK0294-BLK1)		Prepared: 11/08/23 Analyzed: 11/09/23									
Boron	ND	2.00	mg/L								
LCS (BGK0294-BS1)		Prepared: 11/08/23 Analyzed: 11/09/23									
Boron	5.34	2.00	mg/L	5.00	107	80-120					
Duplicate (BGK0294-DUP1)		Source: 2310620-01		Prepared: 11/08/23 Analyzed: 11/09/23							
Boron	0.340	2.00	mg/L					200	20		QR-04, J
Matrix Spike (BGK0294-MS1)		Source: 2310620-01		Prepared: 11/08/23 Analyzed: 11/09/23							
Boron	6.62	2.00	mg/L	5.00	132	75-125					QM-05
Matrix Spike Dup (BGK0294-MSD1)		Source: 2310620-01		Prepared: 11/08/23 Analyzed: 11/09/23							
Boron	7.33	2.00	mg/L	5.00	147	75-125	10.1	25			QM-05

Summit Scientific

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 11/15/23 11:17

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

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

Batch BGK0247 - General Preparation

Blank (BGK0247-BLK1)

Prepared: 11/07/23 Analyzed: 11/09/23

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

LCS (BGK0247-BS1)

Prepared: 11/07/23 Analyzed: 11/09/23

Calcium	4.99	0.0500	mg/L wet	5.00	99.8	70-130
Magnesium	5.18	0.0500	"	5.00	104	70-130
Sodium	5.40	0.0500	"	5.00	108	70-130

Summit Scientific



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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 11/15/23 11:17

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 BGK0301 - General Preparation

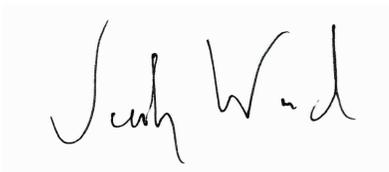
Duplicate (BGK0301-DUP1)

Source: 2311037-01

Prepared & Analyzed: 11/08/23

% Solids	82.8		%		82.5			0.341	20	
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Summit Scientific



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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 11/15/23 11:17

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

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

Batch BGK0256 - General Preparation

Blank (BGK0256-BLK1)

Prepared & Analyzed: 11/08/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGK0256-BS1)

Prepared & Analyzed: 11/08/23

Specific Conductance (EC) 0.153 0.0100 mmhos/cm 0.150 102 95-105

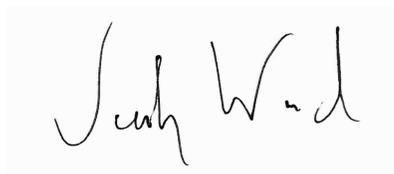
Duplicate (BGK0256-DUP1)

Source: 2310622-01

Prepared & Analyzed: 11/08/23

Specific Conductance (EC) 0.241 0.0100 mmhos/cm 0.241 0.00 20

Summit Scientific



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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 11/15/23 11:17

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

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

Batch BGK0260 - General Preparation

LCS (BGK0260-BS1)

Prepared & Analyzed: 11/08/23

pH	9.05	pH Units	9.18	98.6	95-105
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Duplicate (BGK0260-DUP1)

Source: 2310622-01

Prepared & Analyzed: 11/08/23

pH	7.82	pH Units	7.82	0.00	20
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Summit Scientific



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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/15/23 11:17

Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

December 19, 2023

Andrew Newberry

Eagle Environmental Consulting

8000 W 44th Ave

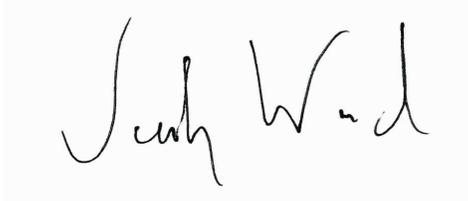
Wheat Ridge, CO 80033

RE: Civitas - Grinde 1-64-5-0108C

Work Order # 2312247

Enclosed are the results of analyses for samples received by Summit Scientific on 12/13/23 14:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial 'J' and a distinct 'W'.

Jacob Wood For Paul Shrewsbury

President



Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
12/19/23 15:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS-SS-20@4'	2312247-01	Soil	12/13/23 11:15	12/13/23 14:05
CS-SS-21@5'	2312247-02	Soil	12/13/23 11:18	12/13/23 14:05
CS-SS-22@5'	2312247-03	Soil	12/13/23 11:21	12/13/23 14:05
CS-SS-23@5'	2312247-04	Soil	12/13/23 11:24	12/13/23 14:05
CS-SS-24@4'	2312247-05	Soil	12/13/23 11:33	12/13/23 14:05
CS-FS-06@5'	2312247-06	Soil	12/13/23 11:27	12/13/23 14:05
CS-FS-07@6'	2312247-07	Soil	12/13/23 11:30	12/13/23 14:05

Summit Scientific

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

SUMMIT SCIENTIFIC

4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page 1 of 1
2312247	

Client: <i>Eagle Environmental Consulting</i>		Project Manager: <i>Andrew Newberry</i>		Company: <i>Cintas</i>	
Address: <i>8000 W 44th Ave</i>		E-Mail: <i>anewberry@eagle-environ.com</i>		Project Name/Location:	
City/State/Zip: <i>Wheat Ridge, CO 80033</i>		Project Name: <i>Grinde 1-04-05 0108C</i>		AFE#:	
Phone: <i>303-433-0479</i>		Project Number: <i>—</i>		PO/Billing Codes:	
Sampler Name: <i>D</i>				Contact: <i>Costin McQueen</i>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested							Special Instructions
					HCl	HNO3	None	Other	Water	Soil			Other	GC/MS, Daph, TMBx - 82165D	DRO/ROD - 8015D	PAHs - 8270D SLM	EC - 9050A	SAR - 20B	pH - 9045D	
1	CS-SS-20@4'	12/13/23	1115	2			X			X			X	X	X	X	X	X	EC, SAR, pH = Saturated paste prep * MDLs needed	
2	CS-SS-21@5'	↓	1118	↓																
3	CS-SS-22@5'	↓	1121	↓																
4	CS-SS-23@5'	↓	1124	↓																
5	CS-SS-24@4'	↓	1133	↓																
6	CS-FS-06@5'	↓	1127	↓																
7	CS-FS-07@10'	↓	1130	↓																
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by: <i>[Signature]</i>	Date/Time: 12/13/23 1405	Received by: <i>[Signature]</i>	Date/Time: 12/13/23 14:05	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <i>[Signature]</i>	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 5.9	Corrected Temperature	IR gun #: 2	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2312247

Client: Eagle Client Project ID: Civitas - Grande 1-64-05 0108C

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

[X] [] [] [] []

Matrix (Check all that apply) Air [] Soil/Solid [X] Water [] Other []

Temp (°C) 5.9 Thermometer # 2

Table with 5 columns: Question, Yes, No, N/A, Comments (if any). Rows include questions about cooling, custody seals, sample due dates, water samples, COC forms, sample volume, pH, and field filtering.

[Signature]
Custodian Printed Name

12/13/23 14:05
Date/Time



Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
12/19/23 15:32

CS-SS-20@4'
2312247-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/13/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0511	12/13/23	12/13/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **12/13/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		136 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		109 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/13/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	22	50	4.3	mg/kg	1	BGL0514	12/13/23	12/13/23	EPA 8015M	J
C28-C36 (ORO)	14	50	4.3	"	"	"	"	"	"	J

Date Sampled: **12/13/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		58.3 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 12/19/23 15:32

CS-SS-20@4'
2312247-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/13/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0528	12/14/23	12/15/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	"
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	"
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	"
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	"

Date Sampled: **12/13/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		47.4 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		57.4 %		40-150		"	"	"	"	"

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/13/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.370	2.00	0.00690	mg/L	1	BGL0520	12/14/23	12/15/23	EPA 6020B	J

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

Date Sampled: **12/13/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

Summit Scientific

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 12/19/23 15:32

CS-SS-20@4'
2312247-01 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	52.4	0.0500		mg/L dry	1	BGL0518	12/13/23	12/15/23	EPA 6020B	
Magnesium	54.2	0.0500		"	"	"	"	"	"	"
Sodium	431	0.0500		"	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **12/13/23 11:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.97	0.00100		units	1	BGL0659	12/18/23	12/19/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/13/23 11:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.4			%	1	BGL0625	12/15/23	12/18/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/13/23 11:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.26	0.0100	0.00100	mmhos/cm	1	BGL0549	12/14/23	12/15/23	EPA 120.1	

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

Date Sampled: **12/13/23 11:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.24			pH Units	1	BGL0548	12/14/23	12/15/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
12/19/23 15:32

CS-SS-21@5'
2312247-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/13/23 11:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0511	12/13/23	12/13/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **12/13/23 11:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		143 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		111 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/13/23 11:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	26	50	4.3	mg/kg	1	BGL0514	12/13/23	12/13/23	EPA 8015M	J
C28-C36 (ORO)	15	50	4.3	"	"	"	"	"	"	J

Date Sampled: **12/13/23 11:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		65.3 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
12/19/23 15:32

CS-SS-21@5'
2312247-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/13/23 11:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0528	12/14/23	12/15/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	"
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	"
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	"
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	"

Date Sampled: **12/13/23 11:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		44.6 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		57.8 %		40-150		"	"	"	"	"

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/13/23 11:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.515	2.00	0.00690	mg/L	1	BGL0520	12/14/23	12/15/23	EPA 6020B	J

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

Date Sampled: **12/13/23 11:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

Summit Scientific

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 12/19/23 15:32

CS-SS-21@5'
2312247-02 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	102	0.0500		mg/L dry	1	BGL0518	12/13/23	12/15/23	EPA 6020B	
Magnesium	126	0.0500		"	"	"	"	"	"	
Sodium	1250	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/13/23 11:18**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	19.6	0.00100		units	1	BGL0659	12/18/23	12/19/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/13/23 11:18**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.1			%	1	BGL0625	12/15/23	12/18/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/13/23 11:18**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.27	0.0100	0.00100	mmhos/cm	1	BGL0549	12/14/23	12/15/23	EPA 120.1	

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

Date Sampled: **12/13/23 11:18**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.15			pH Units	1	BGL0548	12/14/23	12/15/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
12/19/23 15:32

CS-SS-22@5'
2312247-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/13/23 11:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0511	12/13/23	12/13/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **12/13/23 11:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		140 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		105 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/13/23 11:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	22	50	4.3	mg/kg	1	BGL0514	12/13/23	12/13/23	EPA 8015M	J
C28-C36 (ORO)	16	50	4.3	"	"	"	"	"	"	J

Date Sampled: **12/13/23 11:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		70.4 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
12/19/23 15:32

CS-SS-22@5'
2312247-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/13/23 11:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0528	12/14/23	12/15/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **12/13/23 11:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		42.4 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		53.8 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/13/23 11:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.652	2.00	0.00690	mg/L	1	BGL0520	12/14/23	12/15/23	EPA 6020B	J

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

Date Sampled: **12/13/23 11:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

Summit Scientific

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 12/19/23 15:32

CS-SS-22@5'
2312247-03 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	90.4	0.0500		mg/L dry	1	BGL0518	12/13/23	12/15/23	EPA 6020B	
Magnesium	111	0.0500		"	"	"	"	"	"	
Sodium	1240	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/13/23 11:21**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	20.7	0.00100		units	1	BGL0659	12/18/23	12/19/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/13/23 11:21**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.5			%	1	BGL0625	12/15/23	12/18/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/13/23 11:21**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.18	0.0100	0.00100	mmhos/cm	1	BGL0549	12/14/23	12/15/23	EPA 120.1	

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

Date Sampled: **12/13/23 11:21**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21			pH Units	1	BGL0548	12/14/23	12/15/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
12/19/23 15:32

CS-SS-23@5'
2312247-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/13/23 11:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0511	12/13/23	12/13/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **12/13/23 11:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		132 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		103 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/13/23 11:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	13	50	4.3	mg/kg	1	BGL0514	12/13/23	12/13/23	EPA 8015M	J
C28-C36 (ORO)	17	50	4.3	"	"	"	"	"	"	J

Date Sampled: **12/13/23 11:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		63.7 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
12/19/23 15:32

CS-SS-23@5'
2312247-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/13/23 11:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0528	12/14/23	12/16/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **12/13/23 11:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		45.1 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		56.9 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/13/23 11:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.375	2.00	0.00690	mg/L	1	BGL0520	12/14/23	12/15/23	EPA 6020B	J

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

Date Sampled: **12/13/23 11:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

Summit Scientific

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 12/19/23 15:32

CS-SS-23@5'
2312247-04 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	120	0.0500		mg/L dry	1	BGL0518	12/13/23	12/15/23	EPA 6020B	
Magnesium	124	0.0500		"	"	"	"	"	"	"
Sodium	1170	0.0500		"	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **12/13/23 11:24**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	17.9	0.00100		units	1	BGL0659	12/18/23	12/19/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/13/23 11:24**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.9			%	1	BGL0625	12/15/23	12/18/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/13/23 11:24**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.17	0.0100	0.00100	mmhos/cm	1	BGL0549	12/14/23	12/15/23	EPA 120.1	

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

Date Sampled: **12/13/23 11:24**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.17			pH Units	1	BGL0548	12/14/23	12/15/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
12/19/23 15:32

CS-SS-24@4'
2312247-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/13/23 11:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0511	12/13/23	12/13/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **12/13/23 11:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		144 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		106 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/13/23 11:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	9.0	50	4.3	mg/kg	1	BGL0514	12/13/23	12/13/23	EPA 8015M	J
C28-C36 (ORO)	15	50	4.3	"	"	"	"	"	"	J

Date Sampled: **12/13/23 11:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		57.9 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
12/19/23 15:32

CS-SS-24@4'
2312247-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/13/23 11:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0528	12/14/23	12/16/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	"
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	"
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	"
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	"

Date Sampled: **12/13/23 11:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		48.2 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		45.4 %		40-150		"	"	"	"	"

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/13/23 11:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.239	2.00	0.00690	mg/L	1	BGL0520	12/14/23	12/15/23	EPA 6020B	J

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

Date Sampled: **12/13/23 11:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

Summit Scientific

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 12/19/23 15:32

CS-SS-24@4'
2312247-05 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	47.4	0.0500		mg/L dry	1	BGL0518	12/13/23	12/15/23	EPA 6020B	
Magnesium	37.8	0.0500		"	"	"	"	"	"	
Sodium	303	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/13/23 11:33**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.97	0.00100		units	1	BGL0659	12/18/23	12/19/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/13/23 11:33**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.5			%	1	BGL0625	12/15/23	12/18/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/13/23 11:33**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.57	0.0100	0.00100	mmhos/cm	1	BGL0549	12/14/23	12/15/23	EPA 120.1	

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

Date Sampled: **12/13/23 11:33**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21			pH Units	1	BGL0548	12/14/23	12/15/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
12/19/23 15:32

CS-FS-06@5'
2312247-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/13/23 11:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0511	12/13/23	12/13/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **12/13/23 11:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		148 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		109 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/13/23 11:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	13	50	4.3	mg/kg	1	BGL0514	12/13/23	12/13/23	EPA 8015M	J
C28-C36 (ORO)	15	50	4.3	"	"	"	"	"	"	J

Date Sampled: **12/13/23 11:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		57.7 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
12/19/23 15:32

CS-FS-06@5'
2312247-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/13/23 11:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0528	12/14/23	12/16/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	"
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	"
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	"
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	"

Date Sampled: **12/13/23 11:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		44.1 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		49.8 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/13/23 11:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.476	2.00	0.00690	mg/L	1	BGL0520	12/14/23	12/15/23	EPA 6020B	J

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

Date Sampled: **12/13/23 11:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

Summit Scientific

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 12/19/23 15:32

CS-FS-06@5'
2312247-06 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	86.3	0.0500		mg/L dry	1	BGL0518	12/13/23	12/15/23	EPA 6020B	
Magnesium	73.6	0.0500		"	"	"	"	"	"	
Sodium	497	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/13/23 11:27

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.50	0.00100		units	1	BGL0659	12/18/23	12/19/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/13/23 11:27

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.5			%	1	BGL0625	12/15/23	12/18/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: 12/13/23 11:27

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.99	0.0100	0.00100	mmhos/cm	1	BGL0549	12/14/23	12/15/23	EPA 120.1	

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

Date Sampled: 12/13/23 11:27

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.06			pH Units	1	BGL0548	12/14/23	12/15/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
12/19/23 15:32

CS-FS-07@6'
2312247-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/13/23 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0511	12/13/23	12/13/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **12/13/23 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		140 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		107 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/13/23 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	15	50	4.3	mg/kg	1	BGL0514	12/13/23	12/13/23	EPA 8015M	J
C28-C36 (ORO)	12	50	4.3	"	"	"	"	"	"	J

Date Sampled: **12/13/23 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		54.6 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
12/19/23 15:32

CS-FS-07@6'
2312247-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/13/23 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0528	12/14/23	12/16/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **12/13/23 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		46.4 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		56.1 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/13/23 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.425	2.00	0.00690	mg/L	1	BGL0520	12/14/23	12/15/23	EPA 6020B	J

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

Date Sampled: **12/13/23 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

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Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 12/19/23 15:32

CS-FS-07@6'
2312247-07 (Soil)

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

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	138	0.0500		mg/L dry	1	BGL0518	12/13/23	12/15/23	EPA 6020B	
Magnesium	126	0.0500		"	"	"	"	"	"	
Sodium	839	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/13/23 11:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	12.4	0.00100		units	1	BGL0659	12/18/23	12/19/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/13/23 11:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	76.6			%	1	BGL0625	12/15/23	12/18/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/13/23 11:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.89	0.0100	0.00100	mmhos/cm	1	BGL0549	12/14/23	12/15/23	EPA 120.1	

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

Date Sampled: **12/13/23 11:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.13			pH Units	1	BGL0548	12/14/23	12/15/23	EPA 9045D	

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Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
12/19/23 15:32

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 BGL0511 - EPA 5030 Soil MS

Blank (BGL0511-BLK1)

Prepared: 12/13/23 Analyzed: 12/14/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0515</i>		<i>"</i>	<i>0.0400</i>		<i>129</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0434</i>		<i>"</i>	<i>0.0400</i>		<i>108</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0434</i>		<i>"</i>	<i>0.0400</i>		<i>109</i>	<i>50-150</i>			

LCS (BGL0511-BS1)

Prepared: 12/13/23 Analyzed: 12/14/23

Benzene	0.102	0.0020	mg/kg	0.100		102	70-130			
Toluene	0.114	0.0050	"	0.100		114	70-130			
Ethylbenzene	0.102	0.0050	"	0.100		102	70-130			
m,p-Xylene	0.209	0.010	"	0.200		105	70-130			
o-Xylene	0.107	0.0050	"	0.100		107	70-130			
1,2,4-Trimethylbenzene	0.103	0.0050	"	0.100		103	70-130			
1,3,5-Trimethylbenzene	0.105	0.0050	"	0.100		105	70-130			
Naphthalene	0.0848	0.0038	"	0.100		84.8	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0532</i>		<i>"</i>	<i>0.0400</i>		<i>133</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0438</i>		<i>"</i>	<i>0.0400</i>		<i>109</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0417</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>			

Matrix Spike (BGL0511-MS1)

Source: 2312098-08

Prepared: 12/13/23 Analyzed: 12/14/23

Benzene	0.107	0.0020	mg/kg	0.100	ND	107	70-130			
Toluene	0.118	0.0050	"	0.100	ND	118	70-130			
Ethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130			
m,p-Xylene	0.207	0.010	"	0.200	ND	103	70-130			
o-Xylene	0.105	0.0050	"	0.100	ND	105	70-130			
1,2,4-Trimethylbenzene	0.0956	0.0050	"	0.100	ND	95.6	70-130			
1,3,5-Trimethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130			
Naphthalene	0.0746	0.0038	"	0.100	ND	74.6	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0567</i>		<i>"</i>	<i>0.0400</i>		<i>142</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0432</i>		<i>"</i>	<i>0.0400</i>		<i>108</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0426</i>		<i>"</i>	<i>0.0400</i>		<i>107</i>	<i>50-150</i>			

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 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 12/19/23 15:32

Volatile Organic Compounds by EPA Method 8260B - Quality Control
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Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BGL0511 - EPA 5030 Soil MS

Matrix Spike Dup (BGL0511-MSD1)	Source: 2312098-08			Prepared: 12/13/23		Analyzed: 12/14/23				
Benzene	0.100	0.0020	mg/kg	0.100	ND	100	70-130	6.00	30	
Toluene	0.110	0.0050	"	0.100	ND	110	70-130	6.62	30	
Ethylbenzene	0.104	0.0050	"	0.100	ND	104	70-130	0.430	30	
m,p-Xylene	0.204	0.010	"	0.200	ND	102	70-130	1.48	30	
o-Xylene	0.104	0.0050	"	0.100	ND	104	70-130	0.402	30	
1,2,4-Trimethylbenzene	0.0938	0.0050	"	0.100	ND	93.8	70-130	1.93	30	
1,3,5-Trimethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130	1.18	30	
Naphthalene	0.0745	0.0038	"	0.100	ND	74.5	70-130	0.0805	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0536</i>		<i>"</i>	<i>0.0400</i>		<i>134</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0430</i>		<i>"</i>	<i>0.0400</i>		<i>108</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0422</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>50-150</i>			

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Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 12/19/23 15:32

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGL0514 - EPA 3550A

Blank (BGL0514-BLK1)

Prepared: 12/13/23 Analyzed: 12/14/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: <i>o</i> -Terphenyl	13.4		"	12.5		107	30-150			

LCS (BGL0514-BS1)

Prepared: 12/13/23 Analyzed: 12/14/23

C10-C28 (DRO)	423	50	mg/kg	500		84.6	70-130			
Surrogate: <i>o</i> -Terphenyl	12.5		"	12.5		100	30-150			

Matrix Spike (BGL0514-MS1)

Source: 2312098-08

Prepared: 12/13/23 Analyzed: 12/14/23

C10-C28 (DRO)	414	50	mg/kg	500	15.7	79.7	70-130			
Surrogate: <i>o</i> -Terphenyl	11.2		"	12.5		89.3	30-150			

Matrix Spike Dup (BGL0514-MSD1)

Source: 2312098-08

Prepared: 12/13/23 Analyzed: 12/14/23

C10-C28 (DRO)	411	50	mg/kg	500	15.7	79.1	70-130	0.706	20	
Surrogate: <i>o</i> -Terphenyl	10.1		"	12.5		80.5	30-150			

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Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 12/19/23 15:32

PAH by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch BGL0528 - EPA 5030 Soil MS

Blank (BGL0528-BLK1)

Prepared: 12/14/23 Analyzed: 12/15/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0225		"	0.0333		67.6	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0408		"	0.0333		122	40-150			

LCS (BGL0528-BS1)

Prepared: 12/14/23 Analyzed: 12/15/23

Acenaphthene	0.0358	0.00500	mg/kg	0.0333	107	31-137
Anthracene	0.0376	0.00500	"	0.0333	113	30-120
Benzo (a) anthracene	0.0341	0.00500	"	0.0333	102	30-120
Benzo (a) pyrene	0.0262	0.00500	"	0.0333	78.5	30-120
Benzo (b) fluoranthene	0.0337	0.00500	"	0.0333	101	30-120
Benzo (k) fluoranthene	0.0367	0.00500	"	0.0333	110	30-120
Chrysene	0.0390	0.00500	"	0.0333	117	30-120
Dibenz (a,h) anthracene	0.0348	0.00500	"	0.0333	104	30-120
Fluoranthene	0.0358	0.00500	"	0.0333	108	30-120
Fluorene	0.0323	0.00500	"	0.0333	97.0	30-120
Indeno (1,2,3-cd) pyrene	0.0372	0.00500	"	0.0333	112	30-120
Pyrene	0.0392	0.00500	"	0.0333	117	35-142
1-Methylnaphthalene	0.0299	0.00500	"	0.0333	89.7	35-142
2-Methylnaphthalene	0.0348	0.00500	"	0.0333	104	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0298		"	0.0333	89.5	40-150
<i>Surrogate: Fluoranthene-d10</i>	0.0367		"	0.0333	110	40-150

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
12/19/23 15:32

PAH by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch BGL0528 - EPA 5030 Soil MS

Matrix Spike (BGL0528-MS1)	Source: 2312115-21			Prepared: 12/14/23 Analyzed: 12/15/23							
Acenaphthene	0.0258	0.00500	mg/kg	0.0333	ND	77.4	31-137				
Anthracene	0.0255	0.00500	"	0.0333	ND	76.6	30-120				
Benzo (a) anthracene	0.0252	0.00500	"	0.0333	ND	75.6	30-120				
Benzo (a) pyrene	0.0177	0.00500	"	0.0333	ND	53.0	30-120				
Benzo (b) fluoranthene	0.0234	0.00500	"	0.0333	ND	70.1	30-120				
Benzo (k) fluoranthene	0.0252	0.00500	"	0.0333	ND	75.7	30-120				
Chrysene	0.0261	0.00500	"	0.0333	ND	78.3	30-120				
Dibenz (a,h) anthracene	0.0259	0.00500	"	0.0333	ND	77.7	30-120				
Fluoranthene	0.0252	0.00500	"	0.0333	ND	75.5	30-120				
Fluorene	0.0243	0.00500	"	0.0333	ND	72.9	30-120				
Indeno (1,2,3-cd) pyrene	0.0237	0.00500	"	0.0333	ND	71.1	30-120				
Pyrene	0.0328	0.00500	"	0.0333	ND	98.5	35-142				
1-Methylnaphthalene	0.0217	0.00500	"	0.0333	ND	65.2	15-130				
2-Methylnaphthalene	0.0242	0.00500	"	0.0333	ND	72.7	15-130				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0231</i>		<i>"</i>	<i>0.0333</i>		<i>69.3</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0264</i>		<i>"</i>	<i>0.0333</i>		<i>79.2</i>	<i>40-150</i>				

Matrix Spike Dup (BGL0528-MSD1)	Source: 2312115-21			Prepared: 12/14/23 Analyzed: 12/15/23						
Acenaphthene	0.0163	0.00500	mg/kg	0.0333	ND	49.0	31-137	44.9	30	QR-02
Anthracene	0.0173	0.00500	"	0.0333	ND	51.9	30-120	38.4	30	QR-02
Benzo (a) anthracene	0.0169	0.00500	"	0.0333	ND	50.6	30-120	39.5	30	QR-02
Benzo (a) pyrene	0.0153	0.00500	"	0.0333	ND	45.9	30-120	14.3	30	
Benzo (b) fluoranthene	0.0154	0.00500	"	0.0333	ND	46.2	30-120	41.1	30	QR-02
Benzo (k) fluoranthene	0.0170	0.00500	"	0.0333	ND	51.0	30-120	38.9	30	QR-02
Chrysene	0.0180	0.00500	"	0.0333	ND	54.0	30-120	36.8	30	QR-02
Dibenz (a,h) anthracene	0.0198	0.00500	"	0.0333	ND	59.3	30-120	26.9	30	
Fluoranthene	0.0164	0.00500	"	0.0333	ND	49.2	30-120	42.1	30	QR-02
Fluorene	0.0164	0.00500	"	0.0333	ND	49.3	30-120	38.7	30	QR-02
Indeno (1,2,3-cd) pyrene	0.0189	0.00500	"	0.0333	ND	56.8	30-120	22.4	30	
Pyrene	0.0221	0.00500	"	0.0333	ND	66.2	35-142	39.3	30	QR-02
1-Methylnaphthalene	0.0140	0.00500	"	0.0333	ND	42.0	15-130	43.2	50	
2-Methylnaphthalene	0.0172	0.00500	"	0.0333	ND	51.5	15-130	34.1	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0148</i>		<i>"</i>	<i>0.0333</i>		<i>44.3</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0175</i>		<i>"</i>	<i>0.0333</i>		<i>52.5</i>	<i>40-150</i>			

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 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 12/19/23 15:32

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

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

Batch BGL0520 - EPA 3050B

Blank (BGL0520-BLK1)

Prepared: 12/14/23 Analyzed: 12/15/23

Boron ND 2.00 mg/L

LCS (BGL0520-BS1)

Prepared: 12/14/23 Analyzed: 12/15/23

Boron 4.96 2.00 mg/L 5.00 99.1 80-120

Duplicate (BGL0520-DUP1)

Source: 2312247-01

Prepared: 12/14/23 Analyzed: 12/15/23

Boron 0.255 2.00 mg/L 0.370 37.0 20 QR-01, J

Matrix Spike (BGL0520-MS1)

Source: 2312247-01

Prepared: 12/14/23 Analyzed: 12/15/23

Boron 5.19 2.00 mg/L 5.00 0.370 96.3 75-125

Matrix Spike Dup (BGL0520-MSD1)

Source: 2312247-01

Prepared: 12/14/23 Analyzed: 12/15/23

Boron 5.17 2.00 mg/L 5.00 0.370 95.9 75-125 0.349 25

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Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 12/19/23 15:32

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

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

Batch BGL0518 - General Preparation

Blank (BGL0518-BLK1)

Prepared: 12/13/23 Analyzed: 12/15/23

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

LCS (BGL0518-BS1)

Prepared: 12/13/23 Analyzed: 12/15/23

Calcium	4.81	0.0500	mg/L wet	5.00	96.2	70-130
Magnesium	5.38	0.0500	"	5.00	108	70-130
Sodium	5.30	0.0500	"	5.00	106	70-130

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
 Project Manager: Andrew Newberry

Reported:
 12/19/23 15:32

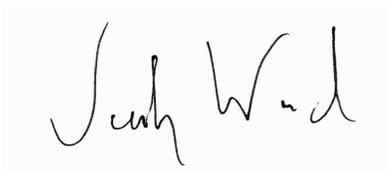
Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
Summit Scientific

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

Batch BGL0625 - General Preparation

Duplicate (BGL0625-DUP1)		Source: 2312141-01			Prepared: 12/15/23 Analyzed: 12/18/23	
% Solids	88.2		%		89.1	1.07 20

Summit Scientific



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

Summit Scientific

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

Batch BGL0549 - General Preparation

Blank (BGL0549-BLK1)

Prepared: 12/14/23 Analyzed: 12/15/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGL0549-BS1)

Prepared: 12/14/23 Analyzed: 12/15/23

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 101 95-105

Duplicate (BGL0549-DUP1)

Source: 2312247-01

Prepared: 12/14/23 Analyzed: 12/15/23

Specific Conductance (EC) 2.26 0.0100 mmhos/cm 2.26 0.00 20

Summit Scientific

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

Summit Scientific

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

Batch BGL0548 - General Preparation

LCS (BGL0548-BS1)

Prepared: 12/14/23 Analyzed: 12/15/23

pH	9.16	pH Units	9.18	99.8	95-105
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Duplicate (BGL0548-DUP1)

Source: 2312247-01

Prepared: 12/14/23 Analyzed: 12/15/23

pH	8.26	pH Units	8.24	0.242	20
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Summit Scientific

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Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration
- 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