



FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

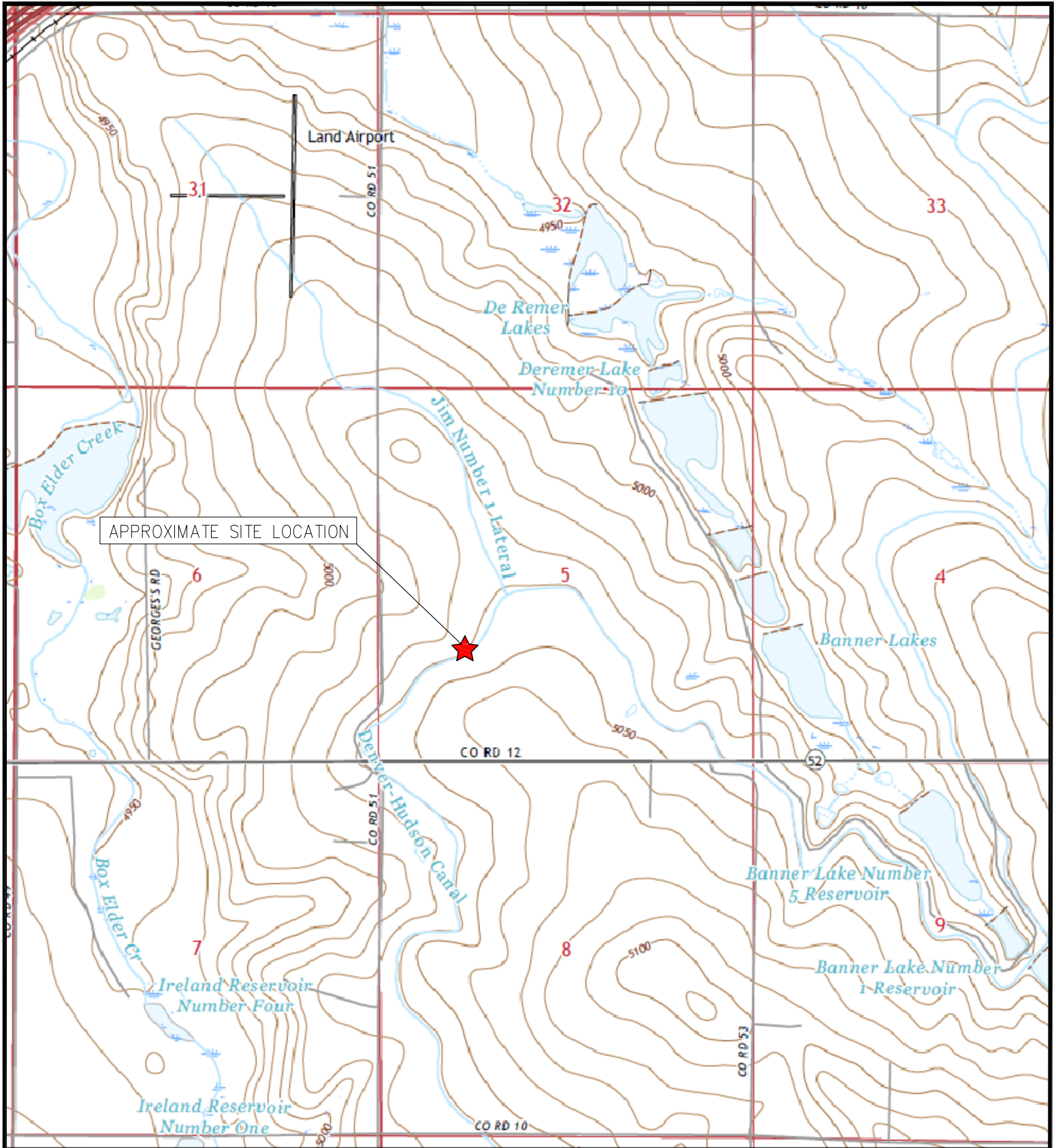
Figure 3: Initial Assessment Soil Analytical Map

Figure 4: Initial Assessment Metals in Soil Map

Figure 5: Confirmation Soil Analytical Map (09/29/23)

Figure 6: Confirmation Metals in Soil Map (09/29/23)

Figure 7: Background Sample Location Map



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
 SPILL ID 485028



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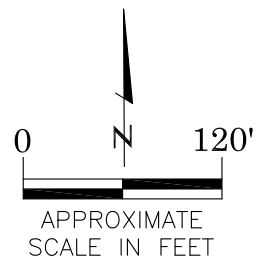
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP,
 KEENESBURG, CO QUADRANGLE 2022

FIGURE 1



LEGEND

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



AERIAL SITE LOCATION MAP

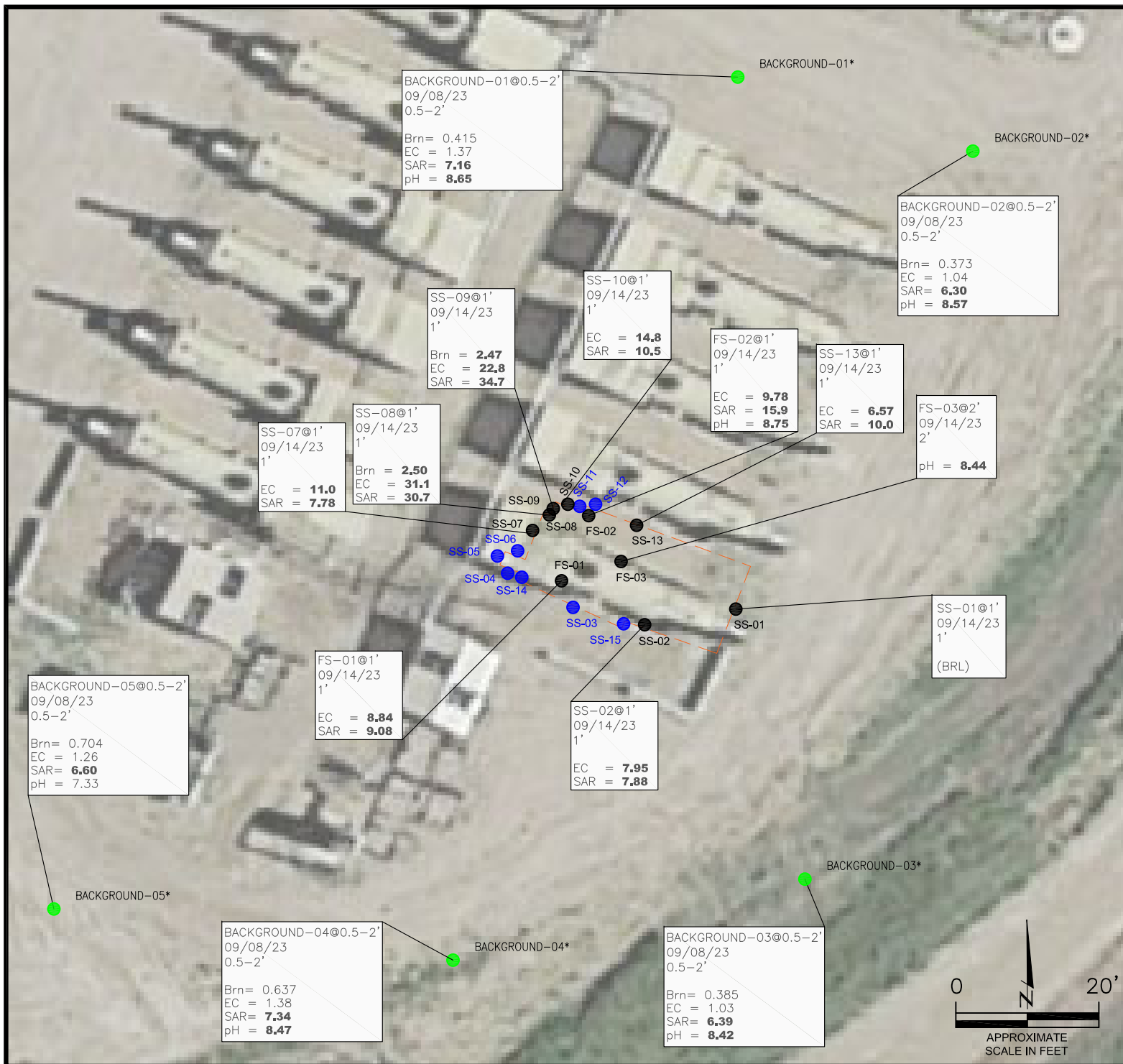
GRINDE 1-64-5-0108C
 SURFACE RELEASE
 40.077778 / -104.579931
 NW¼ SW¼ SEC.5 T1N R64W 6PM
 WELD COUNTY, COLORADO
 LOCATION ID 462021
 SPILL ID 485028

DATE: 09/20/23

FIG. NO. 2
 DRAWN BY: TC



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LEGEND

- INITIAL RELEASE AREA/EXCAVATION EXTENTS
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- 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/VALUES 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 ECMC TABLE 915-1 REGULATORY LIMITS.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

INITIAL ASSESSMENT SOIL ANALYTICAL 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
SPILL ID 485028

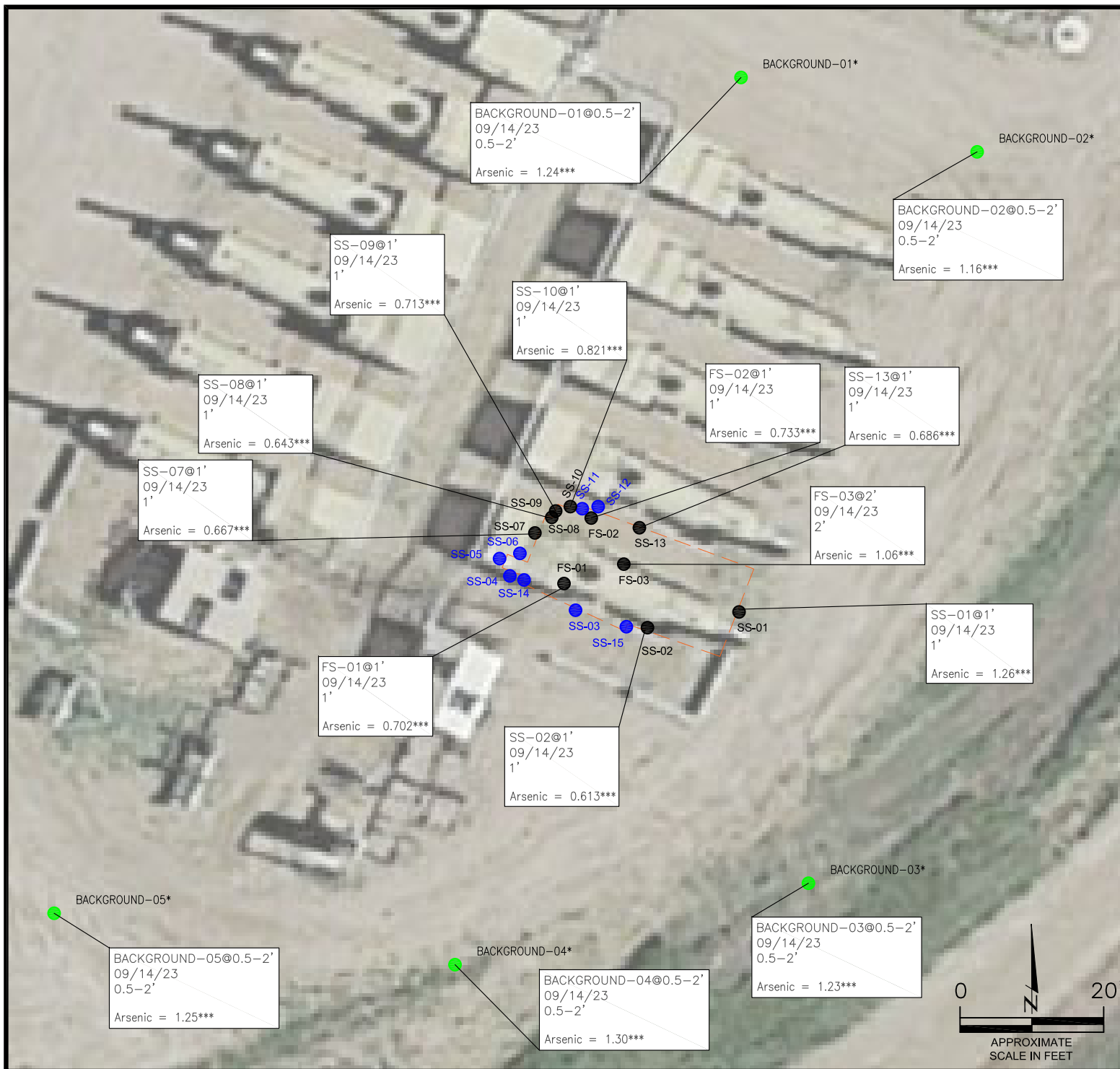
DATE:
10/18/23

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FIG.
NO. 3



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LEGEND

- INITIAL RELEASE AREA/EXCAVATION EXTENTS
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- 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 SAMPLE COLLECTED
APPROXIMATE DEPTH
Arsenic = (mg/kg)
Barium = (mg/kg)
Cadmium = (mg/kg)
Chromium (VI) = (mg/kg)
Copper = (mg/kg)
Lead = (mg/kg)
Nickel = (mg/kg)
Selenium = (mg/kg)
Silver = (mg/kg)
Zinc = (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

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

VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS.

***LOCAL "CLEAN-UP LEVEL" (1.55 mg/kg) IS 1.25*BACKGROUND AVERAGE (1.24 mg/kg).

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

INITIAL ASSESSMENT METALS IN SOIL 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
SPILL ID 485028

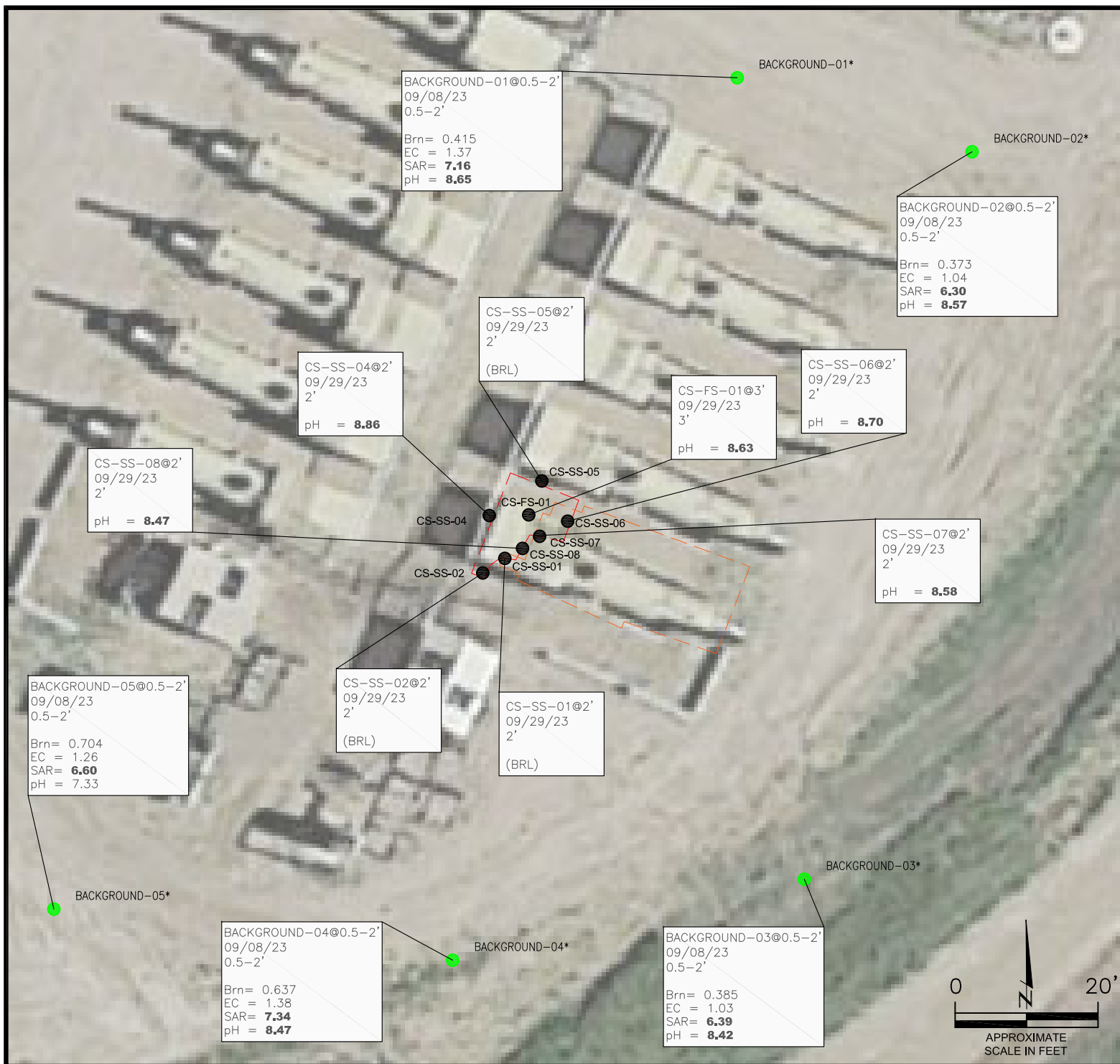
DATE:
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FIG.
NO. 4



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LEGEND

- INITIAL RELEASE AREA/EXCAVATION EXTENTS
- OVER-EXCAVATION EXTENTS (AS OF 9.29.23)
- 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 = MILLIMOS 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 ECMC TABLE 915-1 REGULATORY LIMITS.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

CONFIRMATION SOIL ANALYTICAL MAP

(09/29/23)
GRINDE 1-64-5-0108C
SURFACE RELEASE
40.077778 / -104.579931
NW¼ SW¼ SEC.5 T1N R64W 6PM
WELD COUNTY, COLORADO
LOCATION ID 462021
SPILL ID 485028

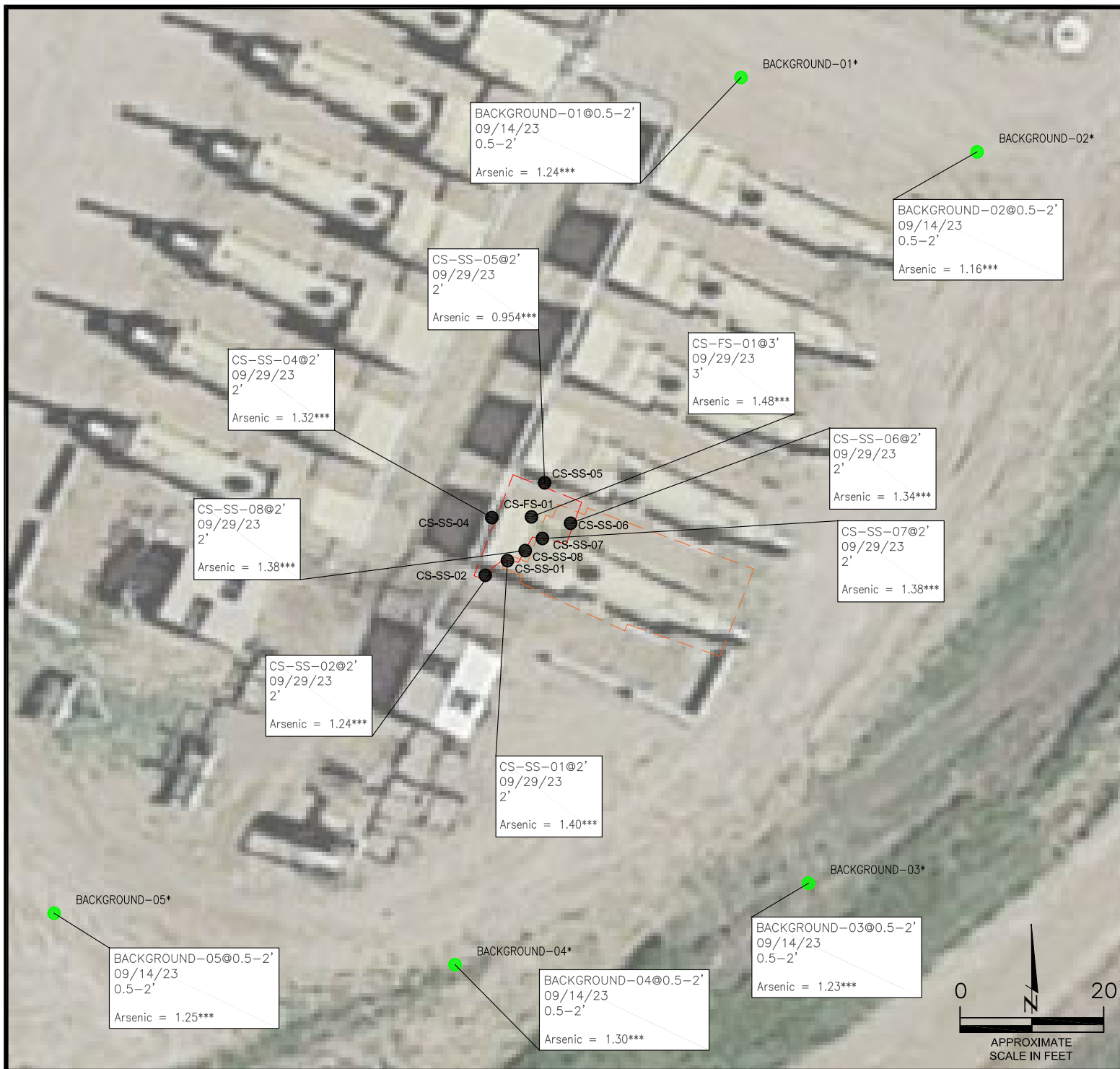
DATE:
10/18/23

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FIG.
NO. 5



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LEGEND

- INITIAL RELEASE AREA/EXCAVATION EXTENTS
- OVER-EXCAVATION EXTENTS (AS OF 9.29.23)
- 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 SAMPLE COLLECTED
APPROXIMATE DEPTH
Arsenic = (mg/kg)
Barium = (mg/kg)
Cadmium = (mg/kg)
Chromium (VI) = (mg/kg)
Copper = (mg/kg)
Lead = (mg/kg)
Nickel = (mg/kg)
Selenium = (mg/kg)
Silver = (mg/kg)
Zinc = (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

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

VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS.

***LOCAL "CLEAN-UP LEVEL" (1.55 mg/kg) IS 1.25*BACKGROUND AVERAGE (1.24 mg/kg).

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

CONFIRMATION METALS IN SOIL MAP (09/29/23)

GRINDE 1-64-5-0108C
SURFACE RELEASE
40.077778 / -104.579931
NW¼ SW¼ SEC.5 T1N R64W 6PM
WELD COUNTY, COLORADO
LOCATION ID 462021
SPILL ID 485028

DATE:
10/18/23

DRAWN BY:
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FIG.
NO. 6



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LEGEND

- INITIAL RELEASE AREA/EXCAVATION EXTENTS
- OVER-EXCAVATION EXTENTS (AS OF 9.29.23)
- 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
SPILL ID 485028

DATE:
10/10/23
DRAWN BY:
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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: Metals Analytical Results 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
 SPILL ID 485028

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
 SPILL ID 485028

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	
(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.6 T1N R64W 6PM
WELD COUNTY, COLORADO
LOCATION ID 462021
SPILL ID 485028

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
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 <u>and</u> "local clean-up levels" established by background comparison																

TABLE 3
PAH ANALYTICAL RESULTS SUMMARY
GRINDE 1-64-S-0108C
SURFACE RELEASE
40.077778 / -104.579931
NW¼ SW¼ SEC.5 T1N R64W 6PM
WELD COUNTY, COLORADO
LOCATION ID 462021
SPILL ID 485028

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' (40.077772 / -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

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
METALS 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
SPILL ID 485028

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Hexavalent Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Residential Screening Levels			0.68***	15,000	71	0.3**	3,100	400	1,500	390	390	23,000
Local Cleanup Levels			1.55***	--	--	0.1 to 1**	--	--	--	--	--	--
Initial Assessment Samples												
SS-01 @ 1' (40.077744 / -104.579848)	09/14/23	1	1.26**	167	0.186	<0.30**	2.27	8.67	12.0	<0.260	0.0672	12.0
SS-02 @ 1' (40.077730 / -104.579865)	09/14/23	1	0.613***	30.3	0.0349	<0.30**	1.35	2.44	1.77	<0.260	0.0137	5.57
SS-07 @ 1' (40.077764 / -104.579924)	09/14/23	1	0.667***	31.9	0.0349	<0.30**	1.54	2.72	1.91	<0.260	0.0103	6.33
SS-08 @ 1' (40.077772 / -104.579913)	09/14/23	1	0.643***	43.6	0.124	<0.30**	1.58	3.26	1.90	<0.260	0.00778	4.53
SS-09 @ 1' (40.077774 / -104.579907)	09/14/23	1	0.713***	35.3	0.0461	<0.30**	1.51	3.12	1.96	<0.260	0.0130	6.30
SS-10 @ 1' (40.077775 / -104.579902)	09/14/23	1	0.821***	40.5	0.0490	<0.30**	1.72	4.11	2.14	<0.260	0.0128	6.94
SS-13 @ 1' (40.077766 / -104.579866)	09/14/23	1	0.686***	36.6	0.0492	<0.30**	1.58	3.12	1.93	<0.260	0.0136	6.08
FS-01 @ 1' (40.077746 / -104.579904)	09/14/23	1	0.702***	29.7	0.0423	<0.30**	1.55	3.80	1.93	<0.260	0.0123	6.44
FS-02 @ 1' (40.077772 / -104.579888)	09/14/23	1	0.733***	36.9	0.0592	<0.30**	1.71	3.30	2.13	<0.260	0.0119	6.60
FS-03 @ 2' (40.077753 / -104.579874)	09/14/23	2	1.06***	205	0.157	<0.30**	2.18	7.11	2.76	<0.260	0.0498	8.51
Background Comparison Samples												
Background-01 @ 0.5-2' (40.078135 / -104.580239)	09/14/23	0.5-2	1.24***	261	0.265	<0.30**	2.61	11.1	3.54	<0.260	0.0751	10.7
Background-02 @ 0.5-2' (40.077958 / -104.580378)	09/14/23	0.5-2	1.16***	183	0.234	<0.30**	2.40	9.94	3.31	<0.260	0.0622	10.1
Background-03 @ 0.5-2' (40.077462 / -104.579825)	09/14/23	0.5-2	1.23***	221	0.270	<0.30**	2.54	10.7	3.40	<0.260	0.0549	10.2
Background-04 @ 0.5-2' (40.077625 / -104.579550)	09/14/23	0.5-2	1.30***	215	0.315	<0.30**	2.64	11.2	3.42	<0.260	0.0706	10.5
Background-05 @ 0.5-2' (40.077896 / -104.579474)	09/14/23	0.5-2	1.25***	227	0.305	<0.30**	2.51	11.0	3.45	<0.260	0.0624	10.0

TABLE 4
METALS 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
SPILL ID 485028

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Hexavalent Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Residential Screening Levels			0.68***	15,000	71	0.3**	3,100	400	1,500	390	390	23,000
Local Cleanup Levels			1.55***	--	--	0.1 to 1**	--	--	--	--	--	--
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	1.40***	141	0.304	<0.30**	3.13	9.41	3.14	0.233	0.0659	10.3
CS-SS-02 @ 2' (40.077751 / -104.579945)	09/29/23	2	1.24***	126	0.242	<0.30**	3.22	8.84	2.80	<0.260	0.0712	11.2
CS-SS-04 @ 2' (40.077772 / -104.579942)	09/29/23	2	1.32***	183	0.309	<0.30**	3.10	9.74	3.35	<0.260	0.0690	11.3
CS-SS-05 @ 2' (40.077786 / -104.579916)	09/29/23	2	0.954***	40.9	0.0777	<0.30**	2.40	3.88	2.34	0.241	0.0204	8.29
CS-SS-06 @ 2' (40.077769 / -104.579906)	09/29/23	2	1.34***	191	0.360	<0.30**	3.32	10.9	3.52	<0.260	0.0747	12.0
CS-SS-07 @ 2' (40.077765 / -104.579916)	09/29/23	2	1.38***	176	0.321	<0.30**	3.20	9.94	3.66	<0.260	0.0607	11.5
CS-SS-08 @ 2' (40.077759 / -104.579925)	09/29/23	2	1.38***	164	0.339	<0.30**	3.09	9.00	3.27	<0.260	0.0712	11.0
CS-FS-01 @ 3' (40.077772 / -104.579924)	09/29/23	3	1.48***	289	0.448	<0.30**	3.26	11.6	3.73	0.176	0.0698	11.6

ECMC = Energy & Carbon Management Commission

mg/kg = milligrams per kilogram

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

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

**Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg.

***Arsenic local clean-up level (1.55 mg/kg) is 1.25*Background Average (1.24 mg/kg).



ATTACHMENT A

Photo Log

Grinde 1-64-5-0108C

Location ID 462021

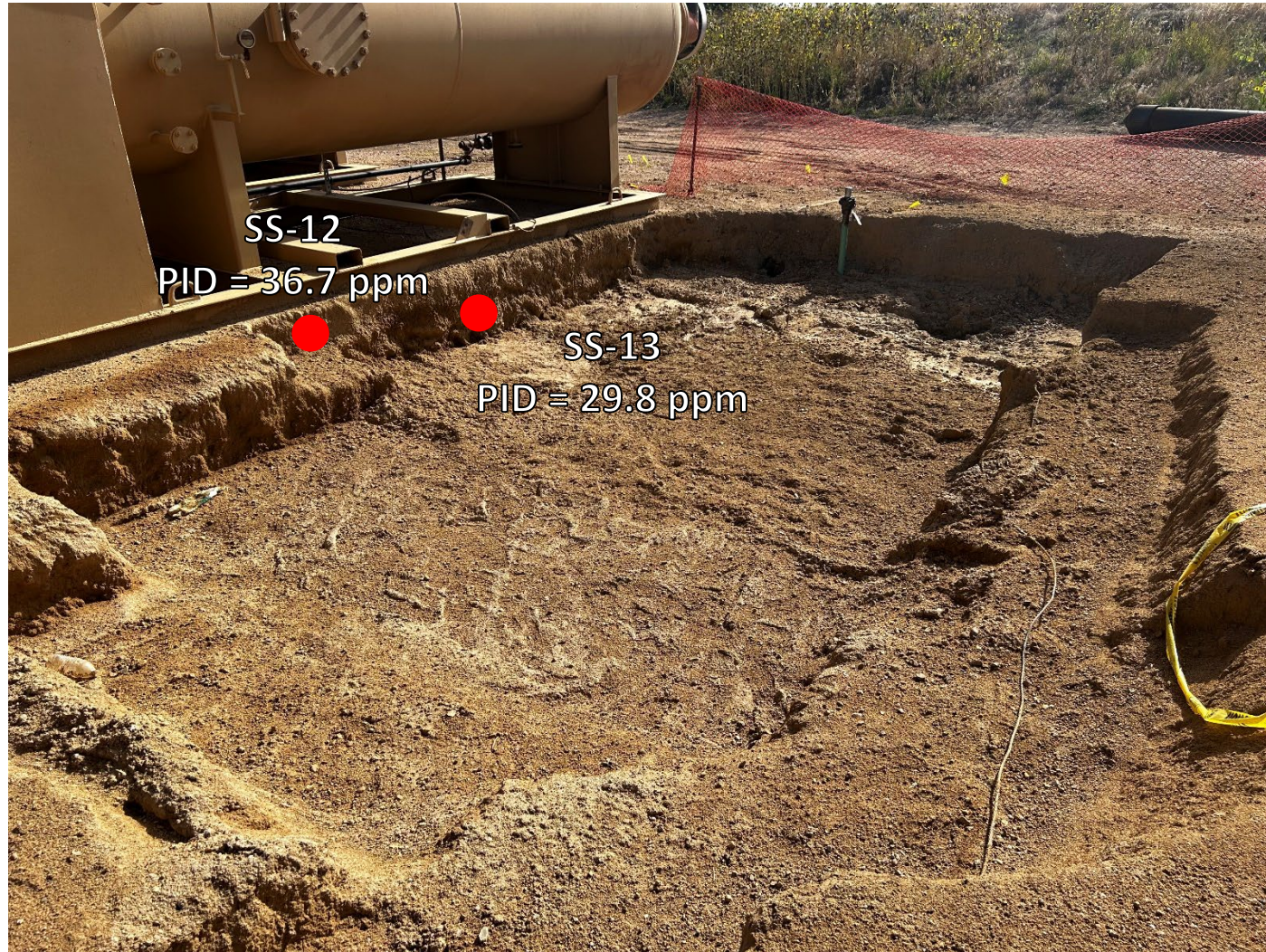
Spill ID 485028

Release Assessment

September 2023



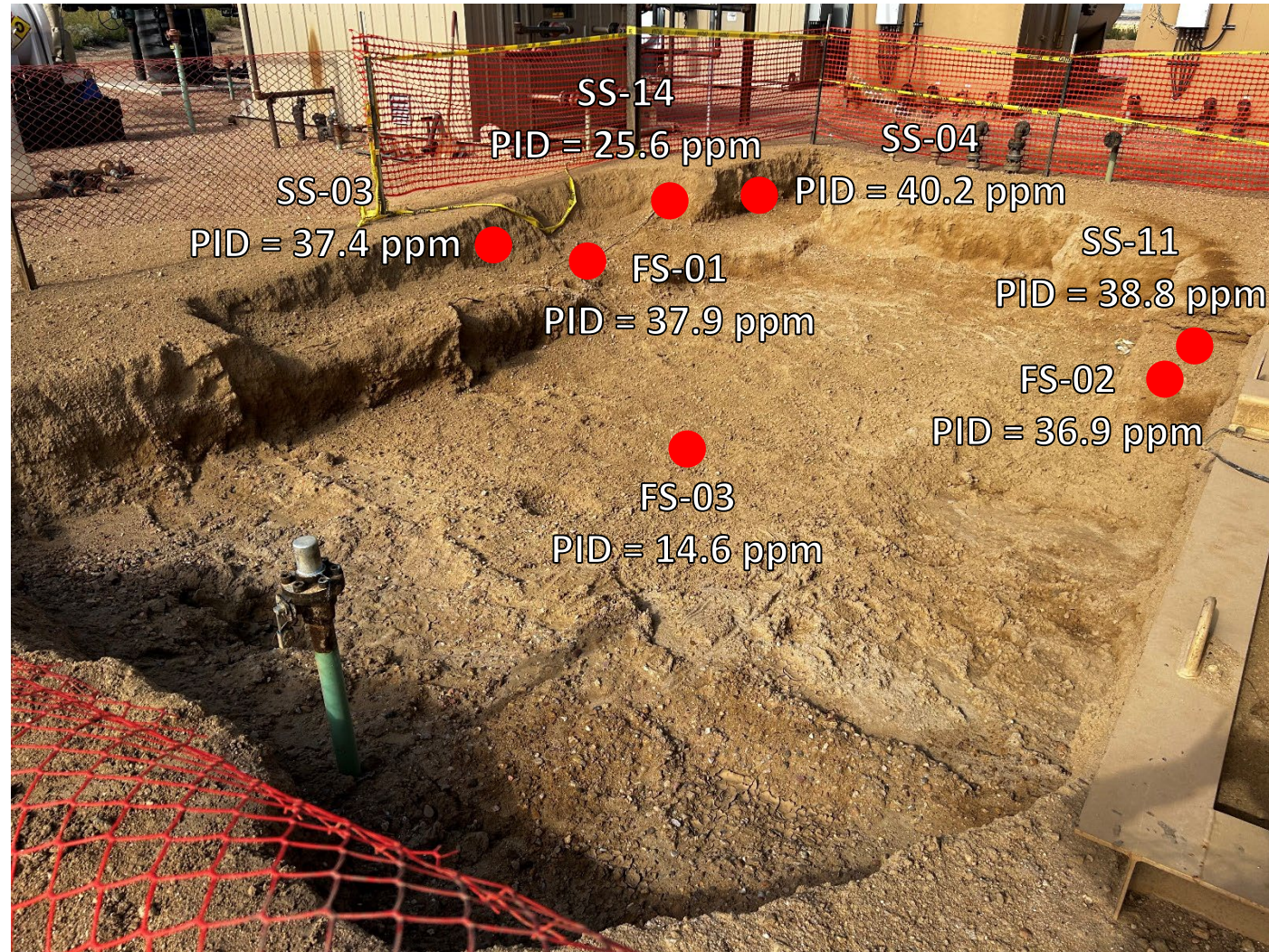
Initial Assessment / Confirmation Sampling – 09/14/23



Looking east-northeast

No petroleum hydrocarbon staining or odor observed

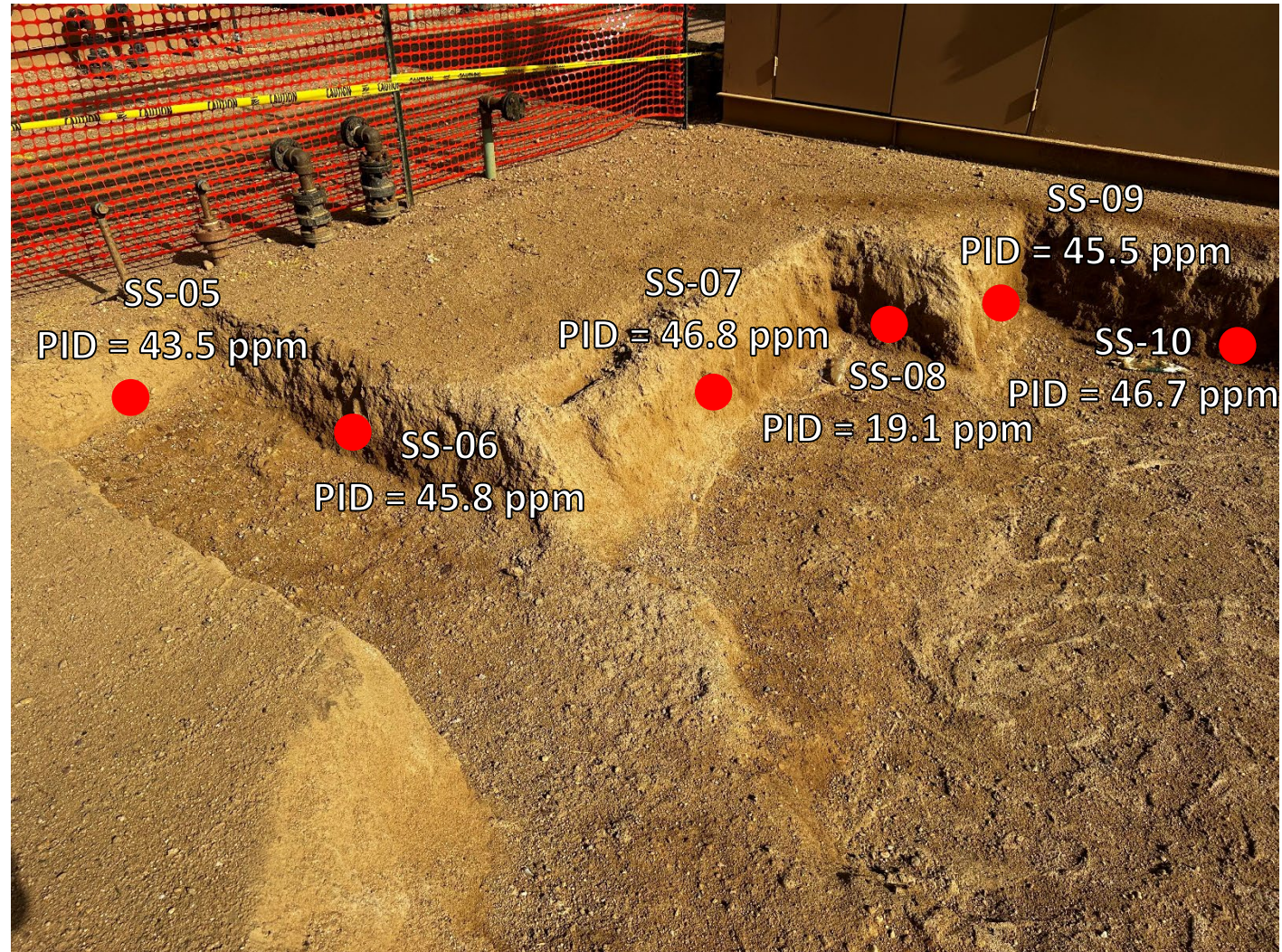
Initial Assessment / Confirmation Sampling – 09/14/23



Looking west-southwest

No petroleum hydrocarbon staining or odor observed

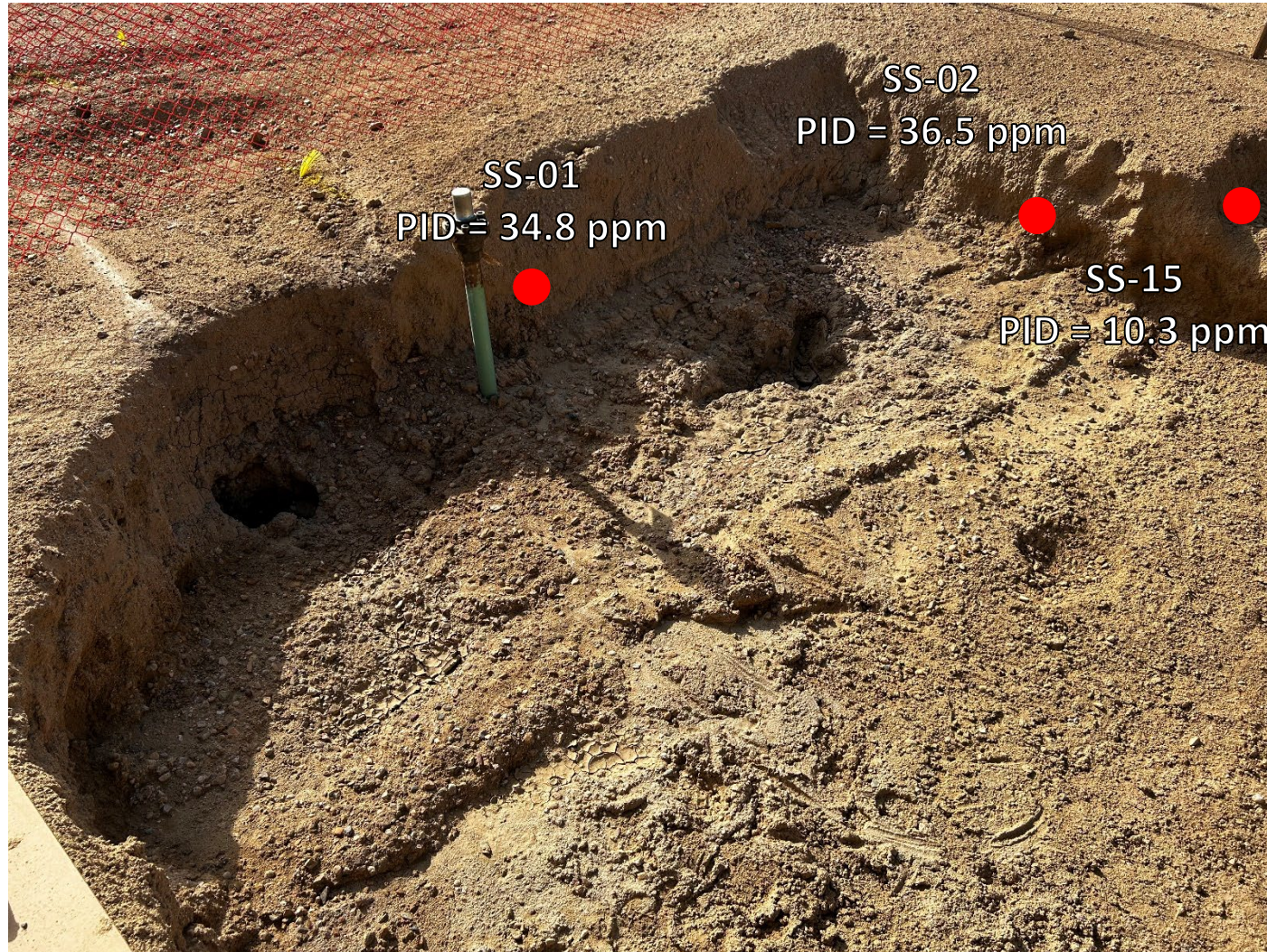
Initial Assessment / Confirmation Sampling – 09/14/23



Looking north-northwest

No petroleum hydrocarbon staining or odor observed

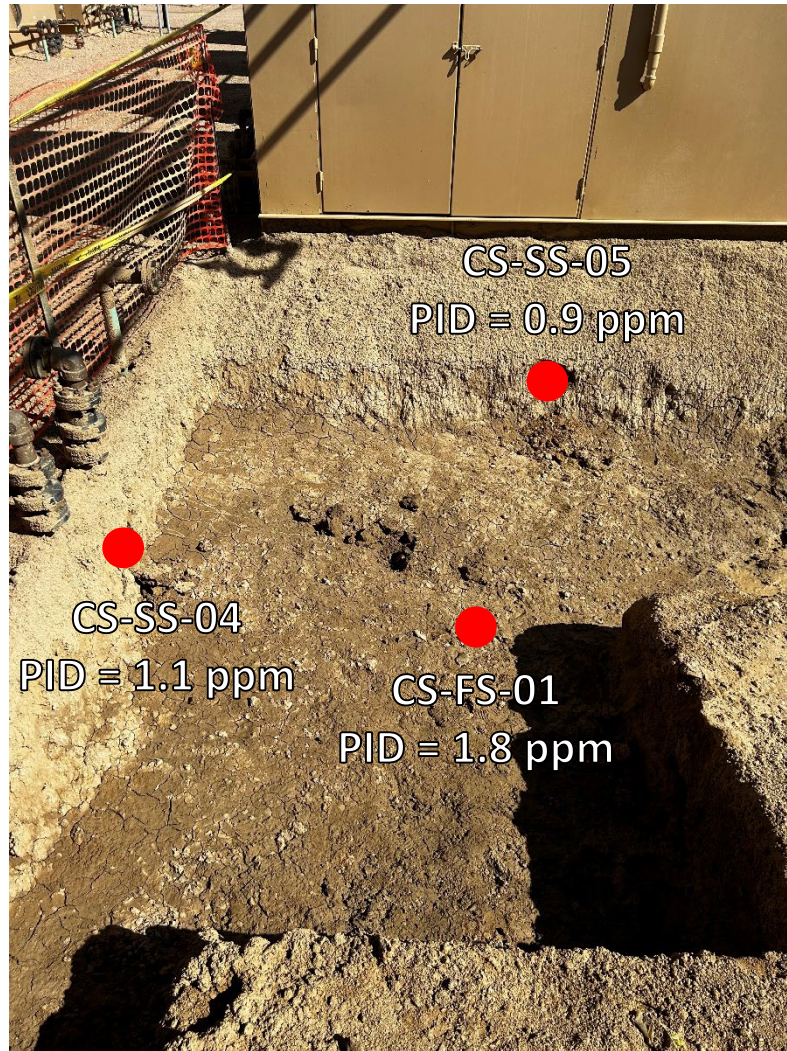
Initial Assessment / Confirmation Sampling – 09/14/23



Looking south-southeast

No petroleum hydrocarbon staining or odor observed

Over-Excavation / Confirmation Sampling – 09/29/23



Looking north-northeast at over-excavation of SS-07, SS-08, SS-09, and SS-10

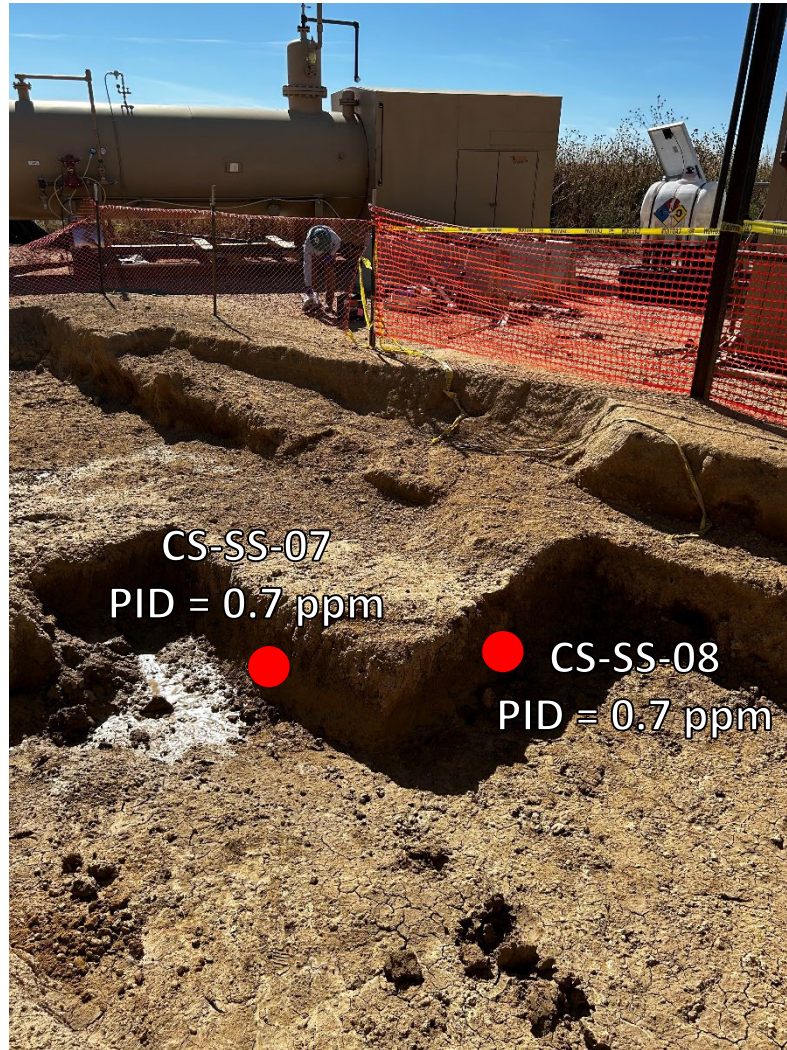
No petroleum hydrocarbon staining or odor observed



Looking north at over-excavation of SS-07, SS-08, SS-09, and SS-10

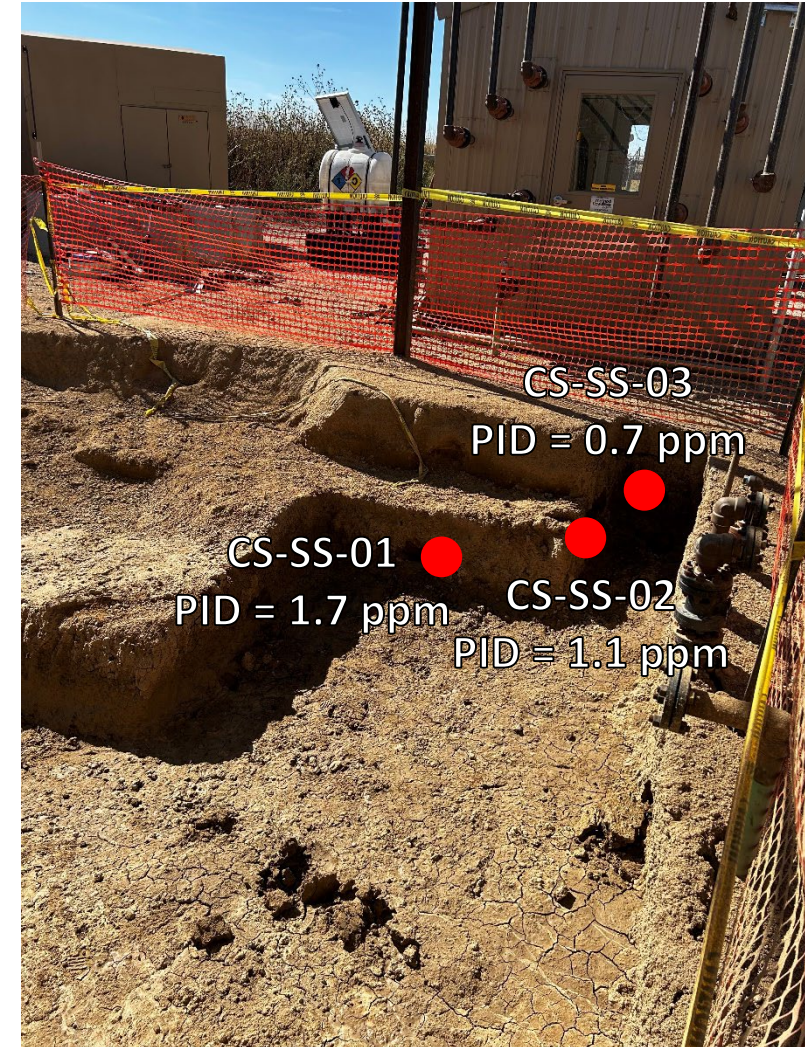
No petroleum hydrocarbon staining or odor observed

Over-Excavation / Confirmation Sampling – 09/29/23



Looking south at over-excavation of SS-07, SS-08, SS-09, and SS-10

No petroleum hydrocarbon staining or odor observed



Looking south-southwest at over-excavation of SS-07, SS-08, SS-09, and SS-10

No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Reports

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

September 19, 2023

Martin Eckert III

Eagle Environmental Consulting

8000 W 44th Ave

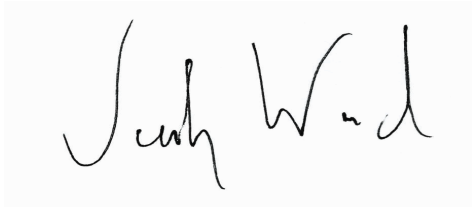
Wheat Ridge, CO 80033

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

Work Order # 2309239

Enclosed are the results of analyses for samples received by Summit Scientific on 09/14/23 15:56. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

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: Martin Eckert III

Reported:
09/19/23 16:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-01@1'	2309239-01	Soil	09/14/23 10:33	09/14/23 15:56
SS-02@1'	2309239-02	Soil	09/14/23 10:35	09/14/23 15:56
SS-07@1'	2309239-03	Soil	09/14/23 11:15	09/14/23 15:56
SS-08@1'	2309239-04	Soil	09/14/23 11:17	09/14/23 15:56
SS-09@1'	2309239-05	Soil	09/14/23 11:19	09/14/23 15:56
SS-10@1'	2309239-06	Soil	09/14/23 11:21	09/14/23 15:56
SS-13@1'	2309239-07	Soil	09/14/23 11:29	09/14/23 15:56
FS-01@1'	2309239-08	Soil	09/14/23 10:45	09/14/23 15:56
FS-02@1'	2309239-09	Soil	09/14/23 11:27	09/14/23 15:56
FS-03@2'	2309239-10	Soil	09/14/23 11:40	09/14/23 15:56

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 <u>1</u> of <u>1</u>
2309239	

Client: <u>Eagle Environmental Consulting</u>		Send Data To:		Send Invoice To:	
Address: <u>8000 W 44th Ave</u>		Project Manager: <u>Martin Eckert III</u>		Company: <u>Civitas</u>	
City/State/Zip: <u>Westridge, CO 80333</u>		E-Mail: <u>m.eckert@eagle-env.com</u>		Project Name/Location:	
Phone: <u>303-433-0479</u>		Project Name: <u>Grande 1-104-5-0108C</u>		AFE#:	
Sampler Name: <u>EL</u>		Project Number:		PO/Billing Codes:	
				Contact: <u>Coston</u>	

					Preservative				Matrix				Analysis Requested								Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other										
1	SS-01@1'	9/14/23	1033	2			X			X			C, BTEX, Asph, PAHs - 82100 D									
2	SS-02@1'		1035										DO, Pb, Cd, Cr, V, Se, Hg PAHs - 8270 D, Se, Hg									
3	SS-07@1'		1115										EC - 9050 A									
4	SS-08@1'		1117										SAR - 20B									
5	SS-09@1'		1119										pH - 9015 D									
6	SS-10@1'		1121										Baron - DTPA - 10020 A									
7	SS-13@1'		1129										Table 915 metals - 10020 A									
8	FS-01@1'		1045										Cr VI - 3710 A									
9	FS-02@1'		1127																			
10	FS-03@2'	↓	1140	↓			↓			↓			↓	↓	↓	↓	↓	↓	↓	↓	↓	EC, SAR, pH = Saturated paste prep
11																						* MDLs needed
12																						
13																						
14																						
15																						

Relinquished by: <u>[Signature]</u>	Date/Time: <u>9/14/23 1550</u>	Received by: <u>[Signature]</u>	Date/Time: <u>9/14/23 15:56</u>	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: <u>13.5</u>	Corrected Temperature	IR gun #: <u>2</u>	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2309239Client: Eagle Creek Client Project ID: Grinde 1-64-5-0108CShipped Via: H.D./P.U./FedEx/UPS/USPS/Other: ☐ Airbill #: ☐
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 13.5 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 Ward
Custodian Printed Name

9/14/23 15:56
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: Martin Eckert III

Reported:
09/19/23 16:44

SS-01@1'
2309239-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/14/23 10:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGI0447	09/15/23	09/15/23	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	0.21	0.50		"	"	"	"	"	"	J

Date Sampled: **09/14/23 10:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		100 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		90.1 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.9 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/14/23 10:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	8.5	50	4.3	mg/kg	1	BGI0457	09/15/23	09/16/23	EPA 8015M	J
C28-C36 (ORO)	12	50	4.3	"	"	"	"	"	"	J

Date Sampled: **09/14/23 10:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		71.7 %		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: Martin Eckert III

Reported:
09/19/23 16:44

SS-01@1'
2309239-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/14/23 10:33**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGI0481	09/18/23	09/18/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	0.0173	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	0.0125	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0252	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.00866	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	0.0290	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	0.0626	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.0127	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	0.0451	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **09/14/23 10:33**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		83.7 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		57.5 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/14/23 10:33**


Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.316	0.0100	0.00690	mg/L	1	BGI0443	09/15/23	09/15/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/14/23 10:33**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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: Martin Eckert III

Reported:
09/19/23 16:44

SS-01@1'
2309239-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.26	0.200	0.168	mg/kg dry	1	BGI0449	09/15/23	09/19/23	EPA 6020B	
Barium	167	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.186	0.200	0.00720	"	"	"	"	"	"	J
Copper	2.27	0.400	0.0209	"	"	"	"	"	"	
Lead	8.67	0.200	0.0550	"	"	"	"	"	"	
Nickel	12.0	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0672	0.0200	0.00267	"	"	"	"	"	"	
Zinc	12.0	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/14/23 10:33**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGI0452	09/15/23	09/18/23	EPA 7196A	

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

Date Sampled: **09/14/23 10:33**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	43.3	0.0575		mg/L dry	1	BGI0462	09/15/23	09/18/23	EPA 6020B	
Magnesium	13.8	0.0575		"	"	"	"	"	"	
Sodium	124	0.0575		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/14/23 10:33**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.20	0.00100		units	1	BGI0569	09/19/23	09/19/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
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Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
09/19/23 16:44

SS-01@1'
2309239-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/14/23 10:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	86.9			%	1	BGI0450	09/15/23	09/15/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/14/23 10:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.980	0.0100	0.00100	mmhos/cm	1	BGI0492	09/18/23	09/18/23	EPA 120.1	

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

Date Sampled: **09/14/23 10:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.29			pH Units	1	BGI0491	09/18/23	09/18/23	EPA 9045D	

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: Martin Eckert III

Reported:
09/19/23 16:44

SS-02@1'
2309239-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/14/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGI0447	09/15/23	09/15/23	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	0.22	0.50		"	"	"	"	"	"	J

Date Sampled: **09/14/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		97.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		89.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.5 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/14/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	11	50	4.3	mg/kg	1	BGI0457	09/15/23	09/16/23	EPA 8015M	J
C28-C36 (ORO)	10	50	4.3	"	"	"	"	"	"	J

Date Sampled: **09/14/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		70.8 %		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: Martin Eckert III

Reported:
09/19/23 16:44

SS-02@1'
2309239-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/14/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGI0481	09/18/23	09/18/23	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: **09/14/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		111 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		40.0 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/14/23 10:35**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.199	0.0100	0.00690	mg/L	1	BGI0443	09/15/23	09/15/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/14/23 10:35**

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: Martin Eckert III

Reported:
09/19/23 16:44

SS-02@1'
2309239-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.613	0.200	0.168	mg/kg dry	1	BGI0449	09/15/23	09/19/23	EPA 6020B	
Barium	30.3	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0349	0.200	0.00720	"	"	"	"	"	"	J
Copper	1.35	0.400	0.0209	"	"	"	"	"	"	
Lead	2.44	0.200	0.0550	"	"	"	"	"	"	
Nickel	1.77	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0137	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	5.57	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/14/23 10:35**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGI0452	09/15/23	09/18/23	EPA 7196A	

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

Date Sampled: **09/14/23 10:35**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	337	0.0519		mg/L dry	1	BGI0462	09/15/23	09/18/23	EPA 6020B	
Magnesium	137	0.0519		"	"	"	"	"	"	
Sodium	679	0.0519		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/14/23 10:35**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.88	0.00100		units	1	BGI0569	09/19/23	09/19/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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: Martin Eckert III

Reported:
09/19/23 16:44

SS-02@1'
2309239-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/14/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	96.4			%	1	BGI0450	09/15/23	09/15/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/14/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	7.95	0.0100	0.00100	mmhos/cm	1	BGI0492	09/18/23	09/18/23	EPA 120.1	

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

Date Sampled: **09/14/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.64			pH Units	1	BGI0491	09/18/23	09/18/23	EPA 9045D	

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: Martin Eckert III

Reported:
09/19/23 16:44

SS-07@1'
2309239-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/14/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGI0447	09/15/23	09/15/23	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	0.22	0.50		"	"	"	"	"	"	J

Date Sampled: **09/14/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		99.7 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		90.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.2 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/14/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	8.9	50	4.3	mg/kg	1	BGI0457	09/15/23	09/16/23	EPA 8015M	J
C28-C36 (ORO)	10	50	4.3	"	"	"	"	"	"	J

Date Sampled: **09/14/23 11:15**

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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Wheat Ridge CO, 80033

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

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
09/19/23 16:44

SS-07@1'
2309239-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/14/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGI0481	09/18/23	09/18/23	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: **09/14/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		69.1 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		65.9 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/14/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.435	0.0100	0.00690	mg/L	1	BGI0443	09/15/23	09/15/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/14/23 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: Martin Eckert III

Reported:
09/19/23 16:44

SS-07@1'
2309239-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.667	0.200	0.168	mg/kg dry	1	BGI0449	09/15/23	09/19/23	EPA 6020B	
Barium	31.9	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0349	0.200	0.00720	"	"	"	"	"	"	J
Copper	1.54	0.400	0.0209	"	"	"	"	"	"	
Lead	2.72	0.200	0.0550	"	"	"	"	"	"	
Nickel	1.91	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0103	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	6.33	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/14/23 11:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGI0452	09/15/23	09/18/23	EPA 7196A	

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

Date Sampled: **09/14/23 11:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	563	0.0513		mg/L dry	1	BGI0462	09/15/23	09/18/23	EPA 6020B	
Magnesium	213	0.0513		"	"	"	"	"	"	
Sodium	854	0.0513		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/14/23 11:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.78	0.00100		units	1	BGI0569	09/19/23	09/19/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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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: Martin Eckert III

Reported:

09/19/23 16:44

SS-07@1'
2309239-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/14/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	97.6			%	1	BGI0450	09/15/23	09/15/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/14/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	11.0	0.0100	0.00100	mmhos/cm	1	BGI0492	09/18/23	09/18/23	EPA 120.1	

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

Date Sampled: **09/14/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.57			pH Units	1	BGI0491	09/18/23	09/18/23	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: Martin Eckert III

Reported:
09/19/23 16:44

SS-08@1'
2309239-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/14/23 11:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGI0447	09/15/23	09/15/23	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	0.22	0.50		"	"	"	"	"	"	J

Date Sampled: **09/14/23 11:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		95.7 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		89.3 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.3 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/14/23 11:17**

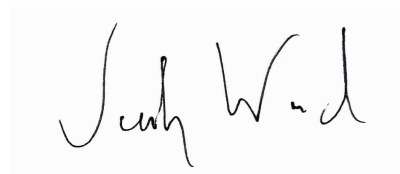
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	10	50	4.3	mg/kg	1	BGI0457	09/15/23	09/16/23	EPA 8015M	J
C28-C36 (ORO)	9.0	50	4.3	"	"	"	"	"	"	J

Date Sampled: **09/14/23 11:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		83.4 %		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: Martin Eckert III

Reported:
09/19/23 16:44

SS-08@1'
2309239-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/14/23 11:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGI0481	09/18/23	09/19/23	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: **09/14/23 11:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		84.0 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		49.9 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/14/23 11:17**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	2.50	0.0100	0.00690	mg/L	1	BGI0443	09/15/23	09/15/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/14/23 11:17**

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: Martin Eckert III

Reported:
09/19/23 16:44

SS-08@1'
2309239-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.643	0.200	0.168	mg/kg dry	1	BGI0449	09/15/23	09/19/23	EPA 6020B	
Barium	43.6	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.124	0.200	0.00720	"	"	"	"	"	"	J
Copper	1.58	0.400	0.0209	"	"	"	"	"	"	
Lead	3.26	0.200	0.0550	"	"	"	"	"	"	
Nickel	1.90	0.400	0.0610	"	"	"	"	"	"	
Silver	0.00778	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	4.53	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/14/23 11:17**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGI0452	09/15/23	09/18/23	EPA 7196A	

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

Date Sampled: **09/14/23 11:17**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	922	0.0512		mg/L dry	1	BGI0462	09/15/23	09/18/23	EPA 6020B	
Magnesium	299	0.0512		"	"	"	"	"	"	
Sodium	4200	0.0512		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/14/23 11:17**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	30.7	0.00100		units	1	BGI0569	09/19/23	09/19/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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: Martin Eckert III

Reported:
09/19/23 16:44

SS-08@1'
2309239-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/14/23 11:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	97.7			%	1	BGI0450	09/15/23	09/15/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/14/23 11:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	31.1	0.0100	0.00100	mmhos/cm	1	BGI0492	09/18/23	09/18/23	EPA 120.1	

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

Date Sampled: **09/14/23 11:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.54			pH Units	1	BGI0491	09/18/23	09/18/23	EPA 9045D	

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Wheat Ridge CO, 80033

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

Project Number: [none]

Project Manager: Martin Eckert III

Reported:

09/19/23 16:44

SS-09@1'
2309239-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/14/23 11:19**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGI0447	09/15/23	09/15/23	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	0.22	0.50		"	"	"	"	"	"	J

Date Sampled: **09/14/23 11:19**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		97.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		89.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.2 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/14/23 11:19**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	8.6	50	4.3	mg/kg	1	BGI0457	09/15/23	09/16/23	EPA 8015M	J
C28-C36 (ORO)	9.4	50	4.3	"	"	"	"	"	"	J

Date Sampled: **09/14/23 11:19**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		71.0 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Wheat Ridge CO, 80033

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

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
09/19/23 16:44

SS-09@1'
2309239-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/14/23 11:19**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGI0481	09/18/23	09/19/23	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: **09/14/23 11:19**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		117 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		63.7 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/14/23 11:19**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	2.47	0.0100	0.00690	mg/L	1	BGI0443	09/15/23	09/15/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/14/23 11:19**

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: Martin Eckert III

Reported:
09/19/23 16:44

SS-09@1'
2309239-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.713	0.200	0.168	mg/kg dry	1	BGI0449	09/15/23	09/19/23	EPA 6020B	
Barium	35.3	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0461	0.200	0.00720	"	"	"	"	"	"	J
Copper	1.51	0.400	0.0209	"	"	"	"	"	"	
Lead	3.12	0.200	0.0550	"	"	"	"	"	"	
Nickel	1.96	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0130	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	6.30	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/14/23 11:19**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGI0452	09/15/23	09/18/23	EPA 7196A	

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

Date Sampled: **09/14/23 11:19**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	463	0.0509		mg/L dry	1	BGI0462	09/15/23	09/18/23	EPA 6020B	
Magnesium	139	0.0509		"	"	"	"	"	"	
Sodium	3320	0.0509		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/14/23 11:19**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	34.7	0.00100		units	1	BGI0569	09/19/23	09/19/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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: Martin Eckert III

Reported:
09/19/23 16:44

SS-09@1'
2309239-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/14/23 11:19**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	98.1			%	1	BGI0450	09/15/23	09/15/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/14/23 11:19**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	22.8	0.0100	0.00100	mmhos/cm	1	BGI0492	09/18/23	09/18/23	EPA 120.1	

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

Date Sampled: **09/14/23 11:19**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.67			pH Units	1	BGI0491	09/18/23	09/18/23	EPA 9045D	

Summit Scientific

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

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
09/19/23 16:44

SS-10@1'
2309239-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/14/23 11:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGI0447	09/15/23	09/15/23	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	0.22	0.50		"	"	"	"	"	"	J

Date Sampled: **09/14/23 11:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		95.9 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		89.3 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.6 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/14/23 11:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	9.0	50	4.3	mg/kg	1	BGI0457	09/15/23	09/16/23	EPA 8015M	J
C28-C36 (ORO)	9.0	50	4.3	"	"	"	"	"	"	J

Date Sampled: **09/14/23 11:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		85.1 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
09/19/23 16:44

SS-10@1'
2309239-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/14/23 11:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGI0481	09/18/23	09/19/23	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: **09/14/23 11:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		110 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		52.4 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/14/23 11:21**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	1.22	0.0100	0.00690	mg/L	1	BGI0443	09/15/23	09/15/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/14/23 11:21**

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: Martin Eckert III

Reported:
09/19/23 16:44

SS-10@1'
2309239-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.821	0.200	0.168	mg/kg dry	1	BGI0449	09/15/23	09/19/23	EPA 6020B	
Barium	40.5	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0490	0.200	0.00720	"	"	"	"	"	"	J
Copper	1.72	0.400	0.0209	"	"	"	"	"	"	
Lead	4.11	0.200	0.0550	"	"	"	"	"	"	
Nickel	2.14	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0128	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	6.94	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/14/23 11:21**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGI0452	09/15/23	09/18/23	EPA 7196A	

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

Date Sampled: **09/14/23 11:21**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	691	0.0514		mg/L dry	1	BGI0462	09/15/23	09/18/23	EPA 6020B	
Magnesium	256	0.0514		"	"	"	"	"	"	
Sodium	1270	0.0514		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/14/23 11:21**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	10.5	0.00100		units	1	BGI0569	09/19/23	09/19/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Project Number: [none]
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09/19/23 16:44

SS-10@1'
2309239-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/14/23 11:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	97.2			%	1	BGI0450	09/15/23	09/15/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/14/23 11:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	14.8	0.0100	0.00100	mmhos/cm	1	BGI0492	09/18/23	09/18/23	EPA 120.1	

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

Date Sampled: **09/14/23 11:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.83			pH Units	1	BGI0491	09/18/23	09/18/23	EPA 9045D	

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

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
09/19/23 16:44

SS-13@1'
2309239-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/14/23 11:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGI0447	09/15/23	09/16/23	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	0.21	0.50		"	"	"	"	"	"	J

Date Sampled: **09/14/23 11:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		99.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		89.5 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.8 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/14/23 11:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	9.6	50	4.3	mg/kg	1	BGI0457	09/15/23	09/16/23	EPA 8015M	J
C28-C36 (ORO)	8.4	50	4.3	"	"	"	"	"	"	J

Date Sampled: **09/14/23 11:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		74.3 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Number: [none]
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SS-13@1'
2309239-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/14/23 11:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGI0481	09/18/23	09/19/23	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: **09/14/23 11:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		52.3 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		65.8 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/14/23 11:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.490	0.0100	0.00690	mg/L	1	BGI0443	09/15/23	09/15/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/14/23 11:29**

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: Martin Eckert III

Reported:
09/19/23 16:44

SS-13@1'
2309239-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.686	0.200	0.168	mg/kg dry	1	BGI0449	09/15/23	09/19/23	EPA 6020B	
Barium	36.6	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0492	0.200	0.00720	"	"	"	"	"	"	J
Copper	1.58	0.400	0.0209	"	"	"	"	"	"	
Lead	3.12	0.200	0.0550	"	"	"	"	"	"	
Nickel	1.93	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0136	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	6.08	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/14/23 11:29**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGI0452	09/15/23	09/18/23	EPA 7196A	

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

Date Sampled: **09/14/23 11:29**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	224	0.0517		mg/L dry	1	BGI0462	09/15/23	09/18/23	EPA 6020B	
Magnesium	79.6	0.0517		"	"	"	"	"	"	
Sodium	686	0.0517		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/14/23 11:29**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	10.0	0.00100		units	1	BGI0569	09/19/23	09/19/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Project Number: [none]

Project Manager: Martin Eckert III

Reported:

09/19/23 16:44

SS-13@1'
2309239-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/14/23 11:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	96.8			%	1	BGI0450	09/15/23	09/15/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/14/23 11:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	6.57	0.0100	0.00100	mmhos/cm	1	BGI0492	09/18/23	09/18/23	EPA 120.1	

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

Date Sampled: **09/14/23 11:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.60			pH Units	1	BGI0491	09/18/23	09/18/23	EPA 9045D	

Summit Scientific

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

Project Number: [none]

Project Manager: Martin Eckert III

Reported:

09/19/23 16:44

FS-01@1'
2309239-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/14/23 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGI0447	09/15/23	09/16/23	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	0.23	0.50		"	"	"	"	"	"	J

Date Sampled: **09/14/23 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		96.3 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		91.5 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.2 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/14/23 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	9.2	50	4.3	mg/kg	1	BGI0457	09/15/23	09/16/23	EPA 8015M	J
C28-C36 (ORO)	8.2	50	4.3	"	"	"	"	"	"	J

Date Sampled: **09/14/23 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		70.2 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
09/19/23 16:44

FS-01@1'
2309239-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/14/23 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGI0481	09/18/23	09/19/23	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: **09/14/23 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		52.1 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		50.4 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/14/23 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.583	0.0100	0.00690	mg/L	1	BGI0443	09/15/23	09/15/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/14/23 10:45**

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: Martin Eckert III

Reported:
09/19/23 16:44

FS-01@1'
2309239-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.702	0.200	0.168	mg/kg dry	1	BGI0449	09/15/23	09/19/23	EPA 6020B	
Barium	29.7	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0423	0.200	0.00720	"	"	"	"	"	"	J
Copper	1.55	0.400	0.0209	"	"	"	"	"	"	
Lead	3.80	0.200	0.0550	"	"	"	"	"	"	
Nickel	1.93	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0123	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	6.44	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/14/23 10:45**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGI0452	09/15/23	09/18/23	EPA 7196A	

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

Date Sampled: **09/14/23 10:45**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	361	0.0514		mg/L dry	1	BGI0462	09/15/23	09/18/23	EPA 6020B	
Magnesium	138	0.0514		"	"	"	"	"	"	
Sodium	800	0.0514		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/14/23 10:45**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.08	0.00100		units	1	BGI0569	09/19/23	09/19/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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: Martin Eckert III

Reported:
09/19/23 16:44

FS-01@1'
2309239-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/14/23 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	97.3			%	1	BGI0450	09/15/23	09/15/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/14/23 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	8.84	0.0100	0.00100	mmhos/cm	1	BGI0492	09/18/23	09/18/23	EPA 120.1	

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

Date Sampled: **09/14/23 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.79			pH Units	1	BGI0491	09/18/23	09/18/23	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: Martin Eckert III

Reported:
09/19/23 16:44

FS-02@1'
2309239-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/14/23 11:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGI0447	09/15/23	09/16/23	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	0.22	0.50		"	"	"	"	"	"	J

Date Sampled: **09/14/23 11:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		97.4 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		90.5 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.6 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/14/23 11:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	9.0	50	4.3	mg/kg	1	BGI0457	09/15/23	09/16/23	EPA 8015M	J
C28-C36 (ORO)	8.9	50	4.3	"	"	"	"	"	"	J

Date Sampled: **09/14/23 11:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		58.5 %		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: Martin Eckert III

Reported:
09/19/23 16:44

FS-02@1'
2309239-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/14/23 11:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGI0481	09/18/23	09/19/23	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: **09/14/23 11:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		101 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		56.7 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/14/23 11:27**

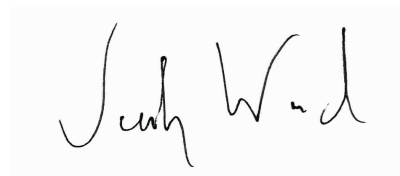
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.720	0.0100	0.00690	mg/L	1	BGI0443	09/15/23	09/15/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/14/23 11:27**

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: Martin Eckert III

Reported:
09/19/23 16:44

FS-02@1'
2309239-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.733	0.200	0.168	mg/kg dry	1	BGI0449	09/15/23	09/19/23	EPA 6020B	
Barium	36.9	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0592	0.200	0.00720	"	"	"	"	"	"	J
Copper	1.71	0.400	0.0209	"	"	"	"	"	"	
Lead	3.30	0.200	0.0550	"	"	"	"	"	"	
Nickel	2.13	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0119	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	6.60	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/14/23 11:27**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGI0452	09/15/23	09/18/23	EPA 7196A	

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

Date Sampled: **09/14/23 11:27**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	265	0.0513		mg/L dry	1	BGI0462	09/15/23	09/18/23	EPA 6020B	
Magnesium	87.2	0.0513		"	"	"	"	"	"	
Sodium	1170	0.0513		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/14/23 11:27**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	15.9	0.00100		units	1	BGI0569	09/19/23	09/19/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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: Martin Eckert III

Reported:
09/19/23 16:44

FS-02@1'
2309239-09 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/14/23 11:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	97.4			%	1	BGI0450	09/15/23	09/15/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/14/23 11:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	9.78	0.0100	0.00100	mmhos/cm	1	BGI0492	09/18/23	09/18/23	EPA 120.1	

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

Date Sampled: **09/14/23 11:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.75			pH Units	1	BGI0491	09/18/23	09/18/23	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: Martin Eckert III

Reported:

09/19/23 16:44

FS-03@2'
2309239-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/14/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGI0447	09/15/23	09/16/23	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	0.20	0.50		"	"	"	"	"	"	J

Date Sampled: **09/14/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		99.0 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		91.1 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.8 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/14/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	120	50	4.3	mg/kg	1	BGI0457	09/15/23	09/16/23	EPA 8015M	
C28-C36 (ORO)	120	50	4.3	"	"	"	"	"	"	

Date Sampled: **09/14/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		65.6 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
09/19/23 16:44

FS-03@2'
2309239-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/14/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGI0481	09/18/23	09/19/23	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: **09/14/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		111 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		40.1 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/14/23 11:40**

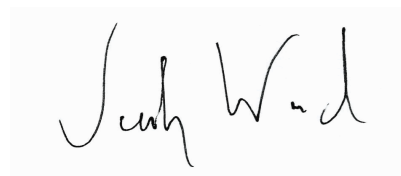
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.396	0.0100	0.00690	mg/L	1	BGI0443	09/15/23	09/15/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/14/23 11:40**

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: Martin Eckert III

Reported:
09/19/23 16:44

FS-03@2'
2309239-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.06	0.200	0.168	mg/kg dry	1	BGI0449	09/15/23	09/19/23	EPA 6020B	
Barium	205	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.157	0.200	0.00720	"	"	"	"	"	"	J
Copper	2.18	0.400	0.0209	"	"	"	"	"	"	
Lead	7.11	0.200	0.0550	"	"	"	"	"	"	
Nickel	2.76	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0498	0.0200	0.00267	"	"	"	"	"	"	
Zinc	8.51	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/14/23 11:40**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGI0452	09/15/23	09/18/23	EPA 7196A	

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

Date Sampled: **09/14/23 11:40**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	30.2	0.0599		mg/L dry	1	BGI0462	09/15/23	09/18/23	EPA 6020B	
Magnesium	8.13	0.0599		"	"	"	"	"	"	
Sodium	81.6	0.0599		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/14/23 11:40**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.40	0.00100		units	1	BGI0569	09/19/23	09/19/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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: Martin Eckert III

Reported:
09/19/23 16:44

FS-03@2'
2309239-10 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/14/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	83.5			%	1	BGI0450	09/15/23	09/15/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/14/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.584	0.0100	0.00100	mmhos/cm	1	BGI0492	09/18/23	09/18/23	EPA 120.1	

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

Date Sampled: **09/14/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.44			pH Units	1	BGI0491	09/18/23	09/18/23	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: Martin Eckert III

Reported:
09/19/23 16:44

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGI0447 - EPA 5030 Soil MS

Blank (BGI0447-BLK1)

Prepared & Analyzed: 09/15/23

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	0.247	0.50	"							J
Surrogate: 1,2-Dichloroethane-d4	0.0377		"	0.0400		94.4	50-150			
Surrogate: Toluene-d8	0.0366		"	0.0400		91.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0343		"	0.0400		85.6	50-150			

LCS (BGI0447-BS1)

Prepared & Analyzed: 09/15/23

Benzene	0.0858	0.0020	mg/kg	0.100		85.8	70-130			
Toluene	0.0915	0.0050	"	0.100		91.5	70-130			
Ethylbenzene	0.117	0.0050	"	0.100		117	70-130			
m,p-Xylene	0.221	0.010	"	0.200		110	70-130			
o-Xylene	0.110	0.0050	"	0.100		110	70-130			
1,2,4-Trimethylbenzene	0.122	0.0050	"	0.100		122	70-130			
1,3,5-Trimethylbenzene	0.124	0.0050	"	0.100		124	70-130			
Naphthalene	0.110	0.0038	"	0.100		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0380		"	0.0400		95.0	50-150			
Surrogate: Toluene-d8	0.0369		"	0.0400		92.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0335		"	0.0400		83.8	50-150			

Matrix Spike (BGI0447-MS1)

Source: 2309221-42

Prepared & Analyzed: 09/15/23

Benzene	0.0778	0.0020	mg/kg	0.100	ND	77.8	70-130			
Toluene	0.0734	0.0050	"	0.100	ND	73.4	70-130			
Ethylbenzene	0.0836	0.0050	"	0.100	ND	83.6	70-130			
m,p-Xylene	0.156	0.010	"	0.200	ND	78.2	70-130			
o-Xylene	0.0762	0.0050	"	0.100	ND	76.2	70-130			
1,2,4-Trimethylbenzene	0.0776	0.0050	"	0.100	ND	77.6	70-130			
1,3,5-Trimethylbenzene	0.0795	0.0050	"	0.100	ND	79.5	70-130			
Naphthalene	0.0851	0.0038	"	0.100	ND	85.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0381		"	0.0400		95.2	50-150			
Surrogate: Toluene-d8	0.0358		"	0.0400		89.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0335		"	0.0400		83.7	50-150			

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

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
09/19/23 16:44

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

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

Batch BGI0447 - EPA 5030 Soil MS

Matrix Spike Dup (BGI0447-MSD1)

Source: 2309221-42

Prepared & Analyzed: 09/15/23

Benzene	0.0709	0.0020	mg/kg	0.100	ND	70.9	70-130	9.32	30	
Toluene	0.0939	0.0050	"	0.100	ND	93.9	70-130	24.4	30	
Ethylbenzene	0.0993	0.0050	"	0.100	ND	99.3	70-130	17.3	30	
m,p-Xylene	0.158	0.010	"	0.200	ND	79.2	70-130	1.30	30	
o-Xylene	0.0917	0.0050	"	0.100	ND	91.7	70-130	18.5	30	
1,2,4-Trimethylbenzene	0.0962	0.0050	"	0.100	ND	96.2	70-130	21.5	30	
1,3,5-Trimethylbenzene	0.0992	0.0050	"	0.100	ND	99.2	70-130	22.0	30	
Naphthalene	0.0980	0.0038	"	0.100	ND	98.0	70-130	14.0	30	
Surrogate: 1,2-Dichloroethane-d4	0.0383		"	0.0400		95.8	50-150			
Surrogate: Toluene-d8	0.0354		"	0.0400		88.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0332		"	0.0400		82.9	50-150			

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

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
09/19/23 16:44

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGI0457 - EPA 3550A

Blank (BGI0457-BLK1)

Prepared & Analyzed: 09/15/23

C10-C28 (DRO)	13.5	50	mg/kg							J
C28-C36 (ORO)	6.73	50	"							J

Surrogate: o-Terphenyl 13.3 " 12.5 106 30-150

LCS (BGI0457-BS1)

Prepared & Analyzed: 09/15/23

C10-C28 (DRO)	432	50	mg/kg	500		86.3	70-130			
Surrogate: o-Terphenyl	10.7		"	12.5		85.9	30-150			

Matrix Spike (BGI0457-MS1)

Source: 2309221-42

Prepared & Analyzed: 09/15/23

C10-C28 (DRO)	448	50	mg/kg	500	74.3	74.7	70-130			
Surrogate: o-Terphenyl	8.27		"	12.5		66.2	30-150			

Matrix Spike Dup (BGI0457-MSD1)

Source: 2309221-42

Prepared & Analyzed: 09/15/23

C10-C28 (DRO)	448	50	mg/kg	500	74.3	74.8	70-130	0.0335	20	
Surrogate: o-Terphenyl	8.09		"	12.5		64.7	30-150			

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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: Martin Eckert III

Reported:
09/19/23 16:44

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGI0481 - EPA 5030 Soil MS

Blank (BGI0481-BLK1)

Prepared & Analyzed: 09/18/23

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	"							
Surrogate: 2-Methylnaphthalene-d10	0.0320		"	0.0333		95.9	40-150			
Surrogate: Fluoranthene-d10	0.0284		"	0.0333		85.1	40-150			

LCS (BGI0481-BS1)

Prepared & Analyzed: 09/18/23

Acenaphthene	0.0301	0.00500	mg/kg	0.0333		90.2	31-137			
Anthracene	0.0304	0.00500	"	0.0333		91.2	30-120			
Benzo (a) anthracene	0.0293	0.00500	"	0.0333		87.8	30-120			
Benzo (a) pyrene	0.0288	0.00500	"	0.0333		86.5	30-120			
Benzo (b) fluoranthene	0.0316	0.00500	"	0.0333		94.7	30-120			
Benzo (k) fluoranthene	0.0323	0.00500	"	0.0333		96.8	30-120			
Chrysene	0.0303	0.00500	"	0.0333		91.0	30-120			
Dibenz (a,h) anthracene	0.0297	0.00500	"	0.0333		89.0	30-120			
Fluoranthene	0.0294	0.00500	"	0.0333		88.1	30-120			
Fluorene	0.0309	0.00500	"	0.0333		92.7	30-120			
Indeno (1,2,3-cd) pyrene	0.0202	0.00500	"	0.0333		60.7	30-120			
Pyrene	0.0246	0.00500	"	0.0333		73.9	35-142			
1-Methylnaphthalene	0.0243	0.00500	"	0.0333		72.8	35-142			
2-Methylnaphthalene	0.0282	0.00500	"	0.0333		84.7	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0371		"	0.0333		111	40-150			
Surrogate: Fluoranthene-d10	0.0329		"	0.0333		98.7	40-150			

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Wheat Ridge CO, 80033

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

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
09/19/23 16:44

PAH by EPA Method 8270D SIM - Quality Control

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

Batch BGI0481 - EPA 5030 Soil MS

Matrix Spike (BGI0481-MS1)

Source: 2309192-07

Prepared & Analyzed: 09/18/23

Acenaphthene	0.0211	0.00500	mg/kg	0.0333	ND	63.4	31-137				
Anthracene	0.0222	0.00500	"	0.0333	ND	66.6	30-120				
Benzo (a) anthracene	0.0235	0.00500	"	0.0333	ND	70.5	30-120				
Benzo (a) pyrene	0.0183	0.00500	"	0.0333	ND	54.8	30-120				
Benzo (b) fluoranthene	0.0259	0.00500	"	0.0333	ND	77.8	30-120				
Benzo (k) fluoranthene	0.0247	0.00500	"	0.0333	ND	74.2	30-120				
Chrysene	0.0248	0.00500	"	0.0333	ND	74.3	30-120				
Dibenz (a,h) anthracene	0.0216	0.00500	"	0.0333	ND	64.8	30-120				
Fluoranthene	0.0277	0.00500	"	0.0333	ND	83.0	30-120				
Fluorene	0.0222	0.00500	"	0.0333	ND	66.6	30-120				
Indeno (1,2,3-cd) pyrene	0.0149	0.00500	"	0.0333	ND	44.6	30-120				
Pyrene	0.0218	0.00500	"	0.0333	ND	65.3	35-142				
1-Methylnaphthalene	0.0205	0.00500	"	0.0333	ND	61.6	15-130				
2-Methylnaphthalene	0.0200	0.00500	"	0.0333	ND	59.9	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0268		"	0.0333		80.3	40-150				
Surrogate: Fluoranthene-d10	0.0219		"	0.0333		65.6	40-150				

Matrix Spike Dup (BGI0481-MSD1)

Source: 2309192-07

Prepared & Analyzed: 09/18/23

Acenaphthene	0.0190	0.00500	mg/kg	0.0333	ND	57.1	31-137	10.4	30		
Anthracene	0.0191	0.00500	"	0.0333	ND	57.3	30-120	14.9	30		
Benzo (a) anthracene	0.0202	0.00500	"	0.0333	ND	60.6	30-120	15.1	30		
Benzo (a) pyrene	0.0177	0.00500	"	0.0333	ND	53.0	30-120	3.49	30		
Benzo (b) fluoranthene	0.0224	0.00500	"	0.0333	ND	67.2	30-120	14.6	30		
Benzo (k) fluoranthene	0.0226	0.00500	"	0.0333	ND	67.8	30-120	9.09	30		
Chrysene	0.0213	0.00500	"	0.0333	ND	63.9	30-120	15.0	30		
Dibenz (a,h) anthracene	0.0194	0.00500	"	0.0333	ND	58.3	30-120	10.5	30		
Fluoranthene	0.0253	0.00500	"	0.0333	ND	76.0	30-120	8.80	30		
Fluorene	0.0195	0.00500	"	0.0333	ND	58.6	30-120	12.9	30		
Indeno (1,2,3-cd) pyrene	0.0141	0.00500	"	0.0333	ND	42.3	30-120	5.52	30		
Pyrene	0.0227	0.00500	"	0.0333	ND	68.1	35-142	4.15	30		
1-Methylnaphthalene	0.0191	0.00500	"	0.0333	ND	57.3	15-130	7.10	50		
2-Methylnaphthalene	0.0187	0.00500	"	0.0333	ND	56.1	15-130	6.61	50		
Surrogate: 2-Methylnaphthalene-d10	0.0247		"	0.0333		74.1	40-150				
Surrogate: Fluoranthene-d10	0.0198		"	0.0333		59.5	40-150				

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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: Martin Eckert III

Reported:
09/19/23 16:44

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

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

Batch BGI0443 - EPA 3050B

Blank (BGI0443-BLK1)

Prepared & Analyzed: 09/15/23

Boron ND 0.0100 mg/L

LCS (BGI0443-BS1)

Prepared & Analyzed: 09/15/23

Boron 5.05 0.0100 mg/L 5.00 101 80-120

Duplicate (BGI0443-DUP1)

Source: 2309239-01

Prepared & Analyzed: 09/15/23

Boron 0.259 0.0100 mg/L 0.316 19.9 20

Matrix Spike (BGI0443-MS1)

Source: 2309239-01

Prepared & Analyzed: 09/15/23

Boron 5.22 0.0100 mg/L 5.00 0.316 98.1 75-125

Matrix Spike Dup (BGI0443-MSD1)

Source: 2309239-01

Prepared & Analyzed: 09/15/23

Boron 5.43 0.0100 mg/L 5.00 0.316 102 75-125 3.88 25

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8000 W 44th Ave
Wheat Ridge CO, 80033

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

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
09/19/23 16:44

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGI0449 - EPA 3050B

Blank (BGI0449-BLK1)

Prepared: 09/15/23 Analyzed: 09/19/23

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	0.0684	0.400	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"
Selenium	ND	0.260	"

J

LCS (BGI0449-BS1)

Prepared: 09/15/23 Analyzed: 09/19/23

Arsenic	42.8	0.200	mg/kg wet	40.0	107	80-120
Barium	39.7	0.400	"	40.0	99.3	80-120
Cadmium	1.95	0.200	"	2.00	97.4	80-120
Copper	41.1	0.400	"	40.0	103	80-120
Lead	21.4	0.200	"	20.0	107	80-120
Nickel	42.3	0.400	"	40.0	106	80-120
Silver	1.91	0.0200	"	2.00	95.3	80-120
Zinc	41.0	0.400	"	40.0	103	80-120

Duplicate (BGI0449-DUP1)

Source: 2309239-01

Prepared: 09/15/23 Analyzed: 09/19/23

Arsenic	1.35	0.200	mg/kg dry	1.26	6.49	20
Barium	168	0.400	"	167	0.854	20
Cadmium	0.251	0.200	"	0.186	30.0	20
Copper	2.30	0.400	"	2.27	1.21	20
Lead	9.43	0.200	"	8.67	8.43	20
Nickel	3.03	0.400	"	12.0	119	20
Silver	0.0783	0.0200	"	0.0672	15.2	20
Zinc	8.64	0.400	"	12.0	32.2	20
Selenium	ND	0.260	"	ND		200

QR-01

QR-01

QR-04

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8000 W 44th Ave
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Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
09/19/23 16:44

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGI0449 - EPA 3050B

Matrix Spike (BGI0449-MS1)

Source: 2309239-01

Prepared: 09/15/23 Analyzed: 09/19/23

Arsenic	10.3	0.200	mg/kg dry	46.0	1.26	19.7	75-125			QM-01
Barium	172	0.400	"	46.0	167	10.6	75-125			QM-01
Cadmium	1.63	0.200	"	2.30	0.186	62.8	75-125			QM-01
Copper	11.3	0.400	"	46.0	2.27	19.7	75-125			QM-01
Lead	21.5	0.200	"	23.0	8.67	55.7	75-125			QM-01
Nickel	12.6	0.400	"	46.0	12.0	1.39	75-125			QM-01
Silver	1.47	0.0200	"	2.30	0.0672	60.8	75-125			QM-01
Zinc	18.1	0.400	"	46.0	12.0	13.4	75-125			QM-01

Matrix Spike Dup (BGI0449-MSD1)

Source: 2309239-01

Prepared: 09/15/23 Analyzed: 09/19/23

Arsenic	10.2	0.200	mg/kg dry	46.0	1.26	19.4	75-125	1.31	25	QM-01
Barium	173	0.400	"	46.0	167	12.7	75-125	0.584	25	QM-01
Cadmium	1.64	0.200	"	2.30	0.186	63.2	75-125	0.647	25	QM-01
Copper	11.2	0.400	"	46.0	2.27	19.4	75-125	1.33	25	QM-01
Lead	21.6	0.200	"	23.0	8.67	56.2	75-125	0.440	25	QM-01
Nickel	12.5	0.400	"	46.0	12.0	1.21	75-125	0.659	25	QM-01
Silver	1.48	0.0200	"	2.30	0.0672	61.5	75-125	1.16	25	QM-01
Zinc	17.9	0.400	"	46.0	12.0	12.9	75-125	1.36	25	QM-01

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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: Martin Eckert III

Reported:
09/19/23 16:44

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGI0452 - 3060A Mod

Blank (BGI0452-BLK1)

Prepared: 09/15/23 Analyzed: 09/18/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGI0452-BS1)

Prepared: 09/15/23 Analyzed: 09/18/23

Chromium, Hexavalent 26.7 0.30 mg/kg wet 25.0 107 80-120

Duplicate (BGI0452-DUP1)

Source: 2309239-01

Prepared: 09/15/23 Analyzed: 09/18/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGI0452-MS1)

Source: 2309239-01

Prepared: 09/15/23 Analyzed: 09/18/23

Chromium, Hexavalent 30.0 0.30 mg/kg dry 28.8 ND 104 75-125

Matrix Spike Dup (BGI0452-MSD1)

Source: 2309239-01

Prepared: 09/15/23 Analyzed: 09/18/23

Chromium, Hexavalent 29.5 0.30 mg/kg dry 28.8 ND 102 75-125 1.93 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: Martin Eckert III

Reported:

09/19/23 16:44

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

Summit Scientific

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

Batch BGI0462 - General Preparation

Blank (BGI0462-BLK1)

Prepared: 09/15/23 Analyzed: 09/18/23

Calcium	0.0183	0.0500	mg/L wet							J
Magnesium	0.00526	0.0500	"							J
Sodium	0.0215	0.0500	"							J

LCS (BGI0462-BS1)

Prepared: 09/15/23 Analyzed: 09/18/23

Calcium	5.71	0.0500	mg/L wet	5.00	114	70-130
Magnesium	5.07	0.0500	"	5.00	101	70-130
Sodium	5.20	0.0500	"	5.00	104	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: Martin Eckert III

Reported:

09/19/23 16:44

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

Summit Scientific

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

Batch BGI0450 - General Preparation

Duplicate (BGI0450-DUP1)

Source: 2309239-01

Prepared & Analyzed: 09/15/23

% Solids	87.3	%		86.9		0.507	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: Martin Eckert III

Reported:
09/19/23 16:44

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

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

Batch BGI0492 - General Preparation

Blank (BGI0492-BLK1)

Prepared & Analyzed: 09/18/23

Specific Conductance (EC)	0.00138	0.0100	mmhos/cm							J
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LCS (BGI0492-BS1)

Prepared & Analyzed: 09/18/23

Specific Conductance (EC)	0.155	0.0100	mmhos/cm	0.150	103	95-105				
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Duplicate (BGI0492-DUP1)

Source: 2309239-01

Prepared & Analyzed: 09/18/23

Specific Conductance (EC)	0.986	0.0100	mmhos/cm	0.980			0.611	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: Martin Eckert III

Reported:
09/19/23 16:44

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

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

Batch BGI0491 - General Preparation

LCS (BGI0491-BS1)

Prepared & Analyzed: 09/18/23

pH	9.11	pH Units	9.18	99.2	95-105
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Duplicate (BGI0491-DUP1)

Source: 2309239-01

Prepared & Analyzed: 09/18/23

pH	8.30	pH Units	8.29	0.121	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: Martin Eckert III

Reported:
09/19/23 16:44

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.
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.
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
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

September 19, 2023

Martin Eckert III

Eagle Environmental Consulting

8000 W 44th Ave

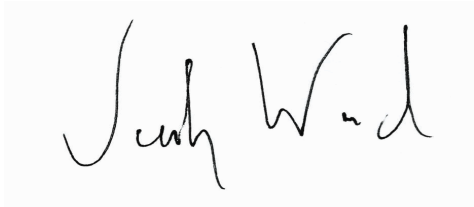
Wheat Ridge, CO 80033

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

Work Order # 2309240

Enclosed are the results of analyses for samples received by Summit Scientific on 09/14/23 15:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

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: Martin Eckert III

Reported:
09/19/23 16:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@0.5-2'	2309240-01	Soil	09/14/23 12:15	09/14/23 15:55
Background-02@0.5-2'	2309240-02	Soil	09/14/23 12:20	09/14/23 15:55
Background-03@0.5-2'	2309240-03	Soil	09/14/23 12:25	09/14/23 15:55
Background-04@0.5-2'	2309240-04	Soil	09/14/23 12:30	09/14/23 15:55
Background-05@0.5-2'	2309240-05	Soil	09/14/23 12:35	09/14/23 15:55

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
2309240	

Client: Eagle Environmental Consulting		Send Data To:		Send Invoice To:	
Address: 8000 W 44th Ave		Project Manager: Martin Eckert III		Company: Civitas	
City/State/Zip: Wheat Ridge, CO 80033		E-Mail: mic3@eagle-enviro.com		Project Name/Location:	
Phone: 303-433-0479		Project Name: Grinde 1-64-5-0108C		AFE#:	
Sampler Name: FL		Project Number:		PO/Billing Codes:	
				Contact: Costin	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	EC-9050A	SAR-208	pH-9045D	Boron-DMA1 Sorbitol	Table 915 metals - 100.20 B	CrVI-71910A	
1	Background-01@0.5-2'	9/14/23	1215	2			X			X			X	X	X	X	X	X	EC SAR pH = Saturated paste prep
2	Background-02@0.5-2'		1220																
3	Background-03@0.5-2'		1225																
4	Background-04@0.5-2'		1230																
5	Background-05@0.5-2'		1235																
6																			* MDIs needed
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: <i>[Signature]</i>	Date/Time: 9/14/23 1550	Received by: <i>[Signature]</i>	Date/Time: 9/14/23 15:55	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: 16.7	Corrected Temperature	IR gun #: 2	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2309240Client: Eagle Creek Client Project ID: Grinde 1-645-0108CShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 16.5 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 checked="" 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.				

Vh Wad
Custodian Printed Name

9/14/23 15:55
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: Martin Eckert III

Reported:
09/19/23 16:47

Background-01@0.5-2'
2309240-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/14/23 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.415	0.0100	0.00690	mg/L	1	BGI0444	09/15/23	09/19/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/14/23 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Arsenic	1.24	0.200	0.168	mg/kg dry	1	BGI0490	09/18/23	09/19/23	EPA 6020B	
Barium	261	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.265	0.200	0.00720	"	"	"	"	"	"	
Copper	2.61	0.400	0.0209	"	"	"	"	"	"	
Lead	11.1	0.200	0.0550	"	"	"	"	"	"	
Nickel	3.54	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0751	0.0200	0.00267	"	"	"	"	"	"	
Zinc	10.7	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/14/23 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGI0451	09/15/23	09/18/23	EPA 7196A	

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

Date Sampled: **09/14/23 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Calcium	27.1	0.0622		mg/L dry	1	BGI0462	09/15/23	09/18/23	EPA 6020B	
Magnesium	24.7	0.0622		"	"	"	"	"	"	
Sodium	214	0.0622		"	"	"	"	"	"	

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: Martin Eckert III

Reported:
09/19/23 16:47

Background-01@0.5-2'
2309240-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **09/14/23 12:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.16	0.00100		units	1	BGI0569	09/19/23	09/19/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/14/23 12:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.4			%	1	BGI0458	09/15/23	09/15/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/14/23 12:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.37	0.0100	0.00100	mmhos/cm	1	BGI0492	09/18/23	09/18/23	EPA 120.1	

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

Date Sampled: **09/14/23 12:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.65			pH Units	1	BGI0491	09/18/23	09/18/23	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: Martin Eckert III

Reported:
09/19/23 16:47

Background-02@0.5-2'
2309240-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/14/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.373	0.0100	0.00690	mg/L	1	BGI0444	09/15/23	09/19/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/14/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Arsenic	1.16	0.200	0.168	mg/kg dry	1	BGI0490	09/18/23	09/19/23	EPA 6020B	
Barium	183	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.234	0.200	0.00720	"	"	"	"	"	"	
Copper	2.40	0.400	0.0209	"	"	"	"	"	"	
Lead	9.94	0.200	0.0550	"	"	"	"	"	"	
Nickel	3.31	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0622	0.0200	0.00267	"	"	"	"	"	"	
Zinc	10.1	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/14/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGI0451	09/15/23	09/18/23	EPA 7196A	

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

Date Sampled: **09/14/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Calcium	22.4	0.0622		mg/L dry	1	BGI0462	09/15/23	09/18/23	EPA 6020B	
Magnesium	17.6	0.0622		"	"	"	"	"	"	
Sodium	164	0.0622		"	"	"	"	"	"	

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: Martin Eckert III

Reported:
09/19/23 16:47

Background-02@0.5-2'
2309240-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **09/14/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Sodium Adsorption Ratio	6.30	0.00100		units	1	BGI0569	09/19/23	09/19/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/14/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	80.4			%	1	BGI0458	09/15/23	09/15/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/14/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	1.04	0.0100	0.00100	mmhos/cm	1	BGI0492	09/18/23	09/18/23	EPA 120.1	

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

Date Sampled: **09/14/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.57			pH Units	1	BGI0491	09/18/23	09/18/23	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: Martin Eckert III

Reported:
09/19/23 16:47

Background-03@0.5-2'
2309240-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/14/23 12:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.385	0.0100	0.00690	mg/L	1	BGI0444	09/15/23	09/19/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/14/23 12:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Arsenic	1.23	0.200	0.168	mg/kg dry	1	BGI0490	09/18/23	09/19/23	EPA 6020B	
Barium	221	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.270	0.200	0.00720	"	"	"	"	"	"	
Copper	2.54	0.400	0.0209	"	"	"	"	"	"	
Lead	10.7	0.200	0.0550	"	"	"	"	"	"	
Nickel	3.40	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0549	0.0200	0.00267	"	"	"	"	"	"	
Zinc	10.2	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/14/23 12:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGI0451	09/15/23	09/18/23	EPA 7196A	

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

Date Sampled: **09/14/23 12:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Calcium	20.6	0.0613		mg/L dry	1	BGI0462	09/15/23	09/18/23	EPA 6020B	
Magnesium	16.3	0.0613		"	"	"	"	"	"	
Sodium	160	0.0613		"	"	"	"	"	"	

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: Martin Eckert III

Reported:
09/19/23 16:47

Background-03@0.5-2'
2309240-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **09/14/23 12:25**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.39	0.00100		units	1	BGI0569	09/19/23	09/19/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/14/23 12:25**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.6			%	1	BGI0458	09/15/23	09/15/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/14/23 12:25**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.03	0.0100	0.00100	mmhos/cm	1	BGI0492	09/18/23	09/18/23	EPA 120.1	

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

Date Sampled: **09/14/23 12:25**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.42			pH Units	1	BGI0491	09/18/23	09/18/23	EPA 9045D	

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: Martin Eckert III

Reported:
09/19/23 16:47

Background-04@0.5-2'
2309240-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/14/23 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.637	0.0100	0.00690	mg/L	1	BGI0444	09/15/23	09/19/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/14/23 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Arsenic	1.30	0.200	0.168	mg/kg dry	1	BGI0490	09/18/23	09/19/23	EPA 6020B	
Barium	215	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.315	0.200	0.00720	"	"	"	"	"	"	
Copper	2.64	0.400	0.0209	"	"	"	"	"	"	
Lead	11.2	0.200	0.0550	"	"	"	"	"	"	
Nickel	3.42	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0706	0.0200	0.00267	"	"	"	"	"	"	
Zinc	10.5	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/14/23 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGI0451	09/15/23	09/18/23	EPA 7196A	

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

Date Sampled: **09/14/23 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Calcium	30.2	0.0613		mg/L dry	1	BGI0462	09/15/23	09/18/23	EPA 6020B	
Magnesium	24.5	0.0613		"	"	"	"	"	"	
Sodium	224	0.0613		"	"	"	"	"	"	

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: Martin Eckert III

Reported:
09/19/23 16:47

Background-04@0.5-2'
2309240-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **09/14/23 12:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.34	0.00100		units	1	BGI0569	09/19/23	09/19/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/14/23 12:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.6			%	1	BGI0458	09/15/23	09/15/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/14/23 12:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.38	0.0100	0.00100	mmhos/cm	1	BGI0492	09/18/23	09/18/23	EPA 120.1	

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

Date Sampled: **09/14/23 12:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.47			pH Units	1	BGI0491	09/18/23	09/18/23	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: Martin Eckert III

Reported:
09/19/23 16:47

Background-05@0.5-2'
2309240-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/14/23 12:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.704	0.0100	0.00690	mg/L	1	BGI0444	09/15/23	09/19/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/14/23 12:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Arsenic	1.25	0.200	0.168	mg/kg dry	1	BGI0490	09/18/23	09/19/23	EPA 6020B	
Barium	227	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.305	0.200	0.00720	"	"	"	"	"	"	
Copper	2.51	0.400	0.0209	"	"	"	"	"	"	
Lead	11.0	0.200	0.0550	"	"	"	"	"	"	
Nickel	3.45	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0624	0.0200	0.00267	"	"	"	"	"	"	
Zinc	10.0	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/14/23 12:35**

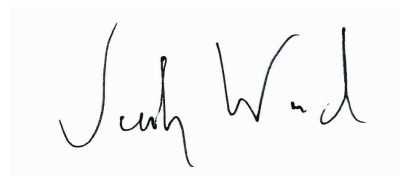
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGI0451	09/15/23	09/18/23	EPA 7196A	

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

Date Sampled: **09/14/23 12:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Calcium	30.9	0.0609		mg/L dry	1	BGI0462	09/15/23	09/18/23	EPA 6020B	
Magnesium	19.8	0.0609		"	"	"	"	"	"	
Sodium	191	0.0609		"	"	"	"	"	"	

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: Martin Eckert III

Reported:
09/19/23 16:47

Background-05@0.5-2'
2309240-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **09/14/23 12:35**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.60	0.00100		units	1	BGI0569	09/19/23	09/19/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/14/23 12:35**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.1			%	1	BGI0458	09/15/23	09/15/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/14/23 12:35**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.26	0.0100	0.00100	mmhos/cm	1	BGI0492	09/18/23	09/18/23	EPA 120.1	

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

Date Sampled: **09/14/23 12:35**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.33			pH Units	1	BGI0491	09/18/23	09/18/23	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: Martin Eckert III

Reported:
09/19/23 16:47

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

Summit Scientific

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

Batch BGI0444 - EPA 3050B

Blank (BGI0444-BLK1)

Prepared: 09/15/23 Analyzed: 09/18/23

Boron ND 0.0100 mg/L

LCS (BGI0444-BS1)

Prepared: 09/15/23 Analyzed: 09/18/23

Boron 5.21 0.0100 mg/L 5.00 104 80-120

Duplicate (BGI0444-DUP1)

Source: 2309189-01

Prepared: 09/15/23 Analyzed: 09/18/23

Boron 0.260 0.0100 mg/L 0.281 7.94 20

Matrix Spike (BGI0444-MS1)

Source: 2309189-01

Prepared: 09/15/23 Analyzed: 09/18/23

Boron 5.18 0.0100 mg/L 5.00 0.281 98.0 75-125

Matrix Spike Dup (BGI0444-MSD1)

Source: 2309189-01

Prepared: 09/15/23 Analyzed: 09/18/23

Boron 5.49 0.0100 mg/L 5.00 0.281 104 75-125 5.77 25

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: Martin Eckert III

Reported:
09/19/23 16:47

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGI0490 - EPA 3050B

Blank (BGI0490-BLK1)

Prepared: 09/18/23 Analyzed: 09/19/23

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

LCS (BGI0490-BS1)

Prepared: 09/18/23 Analyzed: 09/19/23

Arsenic	38.7	0.200	mg/kg wet	40.0	96.7	80-120
Barium	37.1	0.400	"	40.0	92.6	80-120
Cadmium	1.81	0.200	"	2.00	90.3	80-120
Copper	37.1	0.400	"	40.0	92.7	80-120
Lead	19.8	0.200	"	20.0	99.2	80-120
Nickel	38.0	0.400	"	40.0	95.1	80-120
Silver	1.77	0.0200	"	2.00	88.5	80-120
Zinc	36.6	0.400	"	40.0	91.4	80-120

Duplicate (BGI0490-DUP1)

Source: 2309017-04

Prepared: 09/18/23 Analyzed: 09/19/23

Arsenic	0.205	0.200	mg/kg dry	0.335	48.0	20	QR-01
Barium	9.72	0.400	"	16.6	52.2	20	QR-04
Cadmium	0.00844	0.200	"	0.0173	68.9	20	QR-01, J
Copper	0.672	0.400	"	1.16	53.1	20	QR-01
Lead	1.46	0.200	"	2.33	46.0	20	QR-01
Nickel	0.853	0.400	"	1.20	34.0	20	QR-01
Silver	0.00464	0.0200	"	0.00844	58.1	20	QR-01, J
Zinc	3.29	0.400	"	5.19	44.9	20	QR-01
Selenium	ND	0.260	"	ND		200	

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: Martin Eckert III

Reported:
09/19/23 16:47

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGI0490 - EPA 3050B

Matrix Spike (BGI0490-MS1)

Source: 2309017-04

Prepared: 09/18/23 Analyzed: 09/19/23

Arsenic	18.2	0.200	mg/kg dry	42.2	0.335	42.3	75-125			QM-01
Barium	42.8	0.400	"	42.2	16.6	62.1	75-125			QM-01
Cadmium	1.63	0.200	"	2.11	0.0173	76.5	75-125			
Copper	18.0	0.400	"	42.2	1.16	39.9	75-125			QM-01
Lead	18.2	0.200	"	21.1	2.33	75.3	75-125			
Nickel	18.8	0.400	"	42.2	1.20	41.6	75-125			QM-01
Silver	1.53	0.0200	"	2.11	0.00844	72.2	75-125			QM-01
Zinc	21.2	0.400	"	42.2	5.19	38.0	75-125			QM-01

Matrix Spike Dup (BGI0490-MSD1)

Source: 2309017-04

Prepared: 09/18/23 Analyzed: 09/19/23

Arsenic	16.6	0.200	mg/kg dry	42.2	0.335	38.6	75-125	8.94	25	QM-01
Barium	49.7	0.400	"	42.2	16.6	78.4	75-125	14.8	25	
Cadmium	1.77	0.200	"	2.11	0.0173	82.9	75-125	7.97	25	
Copper	16.5	0.400	"	42.2	1.16	36.4	75-125	8.44	25	QM-01
Lead	20.2	0.200	"	21.1	2.33	84.7	75-125	10.3	25	
Nickel	17.0	0.400	"	42.2	1.20	37.6	75-125	9.61	25	QM-01
Silver	1.69	0.0200	"	2.11	0.00844	79.7	75-125	9.85	25	
Zinc	19.9	0.400	"	42.2	5.19	34.8	75-125	6.58	25	QM-01

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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: Martin Eckert III

Reported:
09/19/23 16:47

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGI0451 - 3060A Mod

Blank (BGI0451-BLK1)

Prepared: 09/15/23 Analyzed: 09/18/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGI0451-BS1)

Prepared: 09/15/23 Analyzed: 09/18/23

Chromium, Hexavalent 26.8 0.30 mg/kg wet 25.0 107 80-120

Duplicate (BGI0451-DUP1)

Source: 2309235-01

Prepared: 09/15/23 Analyzed: 09/18/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGI0451-MS1)

Source: 2309235-01

Prepared: 09/15/23 Analyzed: 09/18/23

Chromium, Hexavalent 30.8 0.30 mg/kg dry 31.4 ND 98.0 75-125

Matrix Spike Dup (BGI0451-MSD1)

Source: 2309235-01

Prepared: 09/15/23 Analyzed: 09/18/23

Chromium, Hexavalent 30.7 0.30 mg/kg dry 31.4 ND 97.6 75-125 0.409 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: Martin Eckert III

Reported:

09/19/23 16:47

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

Summit Scientific

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

Batch BGI0462 - General Preparation

Blank (BGI0462-BLK1)

Prepared: 09/15/23 Analyzed: 09/18/23

Calcium	0.0183	0.0500	mg/L wet							J
Magnesium	0.00526	0.0500	"							J
Sodium	0.0215	0.0500	"							J

LCS (BGI0462-BS1)

Prepared: 09/15/23 Analyzed: 09/18/23

Calcium	5.71	0.0500	mg/L wet	5.00	114	70-130
Magnesium	5.07	0.0500	"	5.00	101	70-130
Sodium	5.20	0.0500	"	5.00	104	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: Martin Eckert III

Reported:
09/19/23 16:47

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

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

Batch BGI0458 - General Preparation

Duplicate (BGI0458-DUP1)

Source: 2309048-02

Prepared & Analyzed: 09/15/23

% Solids	76.7	%	77.0	0.410	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: Martin Eckert III

Reported:

09/19/23 16:47

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

Summit Scientific

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

Batch BGI0492 - General Preparation

Blank (BGI0492-BLK1)

Prepared & Analyzed: 09/18/23

Specific Conductance (EC)	0.00138	0.0100	mmhos/cm								J
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LCS (BGI0492-BS1)

Prepared & Analyzed: 09/18/23

Specific Conductance (EC)	0.155	0.0100	mmhos/cm	0.150	103	95-105					
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Duplicate (BGI0492-DUP1)

Source: 2309239-01

Prepared & Analyzed: 09/18/23

Specific Conductance (EC)	0.986	0.0100	mmhos/cm		0.980			0.611	20		
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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: Martin Eckert III

Reported:

09/19/23 16:47

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

Summit Scientific

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

Batch BGI0491 - General Preparation

LCS (BGI0491-BS1)

Prepared & Analyzed: 09/18/23

pH	9.11	pH Units	9.18	99.2	95-105
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Duplicate (BGI0491-DUP1)

Source: 2309239-01

Prepared & Analyzed: 09/18/23

pH	8.30	pH Units	8.29	0.121	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: Martin Eckert III

Reported:
09/19/23 16:47

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.
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.
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
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

October 09, 2023

Martin Eckert III

Eagle Environmental Consulting

8000 W 44th Ave

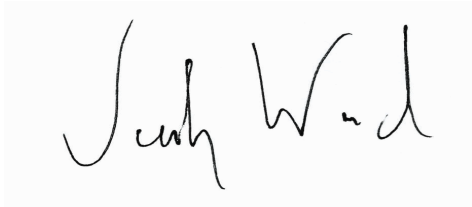
Wheat Ridge, CO 80033

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

Work Order # 2309569

Enclosed are the results of analyses for samples received by Summit Scientific on 09/29/23 13:28. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a stylized "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: Martin Eckert III

Reported:
10/09/23 10:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS-SS-01@2'	2309569-01	Soil	09/29/23 10:20	09/29/23 13:28
CS-SS-02@2'	2309569-02	Soil	09/29/23 10:25	09/29/23 13:28
CS-SS-04@2'	2309569-03	Soil	09/29/23 10:35	09/29/23 13:28
CS-SS-05@2'	2309569-04	Soil	09/29/23 10:40	09/29/23 13:28
CS-SS-06@2'	2309569-05	Soil	09/29/23 10:45	09/29/23 13:28
CS-SS-07@2'	2309569-06	Soil	09/29/23 10:50	09/29/23 13:28
CS-SS-08@2'	2309569-07	Soil	09/29/23 10:55	09/29/23 13:28
CS-FS-01@3'	2309569-08	Soil	09/29/23 11:00	09/29/23 13:28

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.

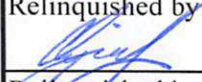
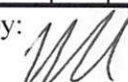
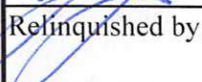
SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2309569	

Client: Eagle Environmental Consulting		Send Data To:		Send Invoice To:	
Address: 8000 W 44th Ave		Project Manager: Martin Eckert III		Company: Civitas	
City/State/Zip: Wheat Ridge, CO 80033		E-Mail: mee3@eagle-enviro.com		Project Name/Location:	
Phone: 303-433-0479		Project Name: Grinde 1-04-05-0108C		AFE#:	
Sampler Name: FL/AB		Project Number:		PO/Billing Codes:	
				Contact: Cortin	

					Preservative				Matrix				Analysis Requested								Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	B, BTEX, Naph, Toluene - 8210D	OC, PFO, 8015D	PAHs - 8270 D 5E4	EC - 9050A	SAR - 20B	pH - 9045D	Boron - DTPA / Sorbitol	Table 915 metals - 10020B	CrVI - 71910A	
1	CS-SS-01@2'	9/29/23	1020	2			X			X			X	X	X	X	X	X	X	X	X	EC, SAR, pH =
2	CS-SS-02@2'		1025				X			X			X	X	X	X	X	X	X	X	X	Saturated paste
3	CS-SS-04@2'		1035				X			X			X	X	X	X	X	X	X	X	X	prop
4	CS-SS-05@2'		1040				X			X			X	X	X	X	X	X	X	X	X	
5	CS-SS-06@2'		1045				X			X			X	X	X	X	X	X	X	X	X	
6	CS-SS-07@2'		1050				X			X			X	X	X	X	X	X	X	X	X	*MDLs needed
7	CS-SS-08@2'		1055				X			X			X	X	X	X	X	X	X	X	X	
8	CS-FS-01@3'		1100				X			X			X	X	X	X	X	X	X	X	X	
9																						
10																						
11																						
12																						
13																						
14																						
15																						

Relinquished by: 	Date/Time: 9/29/23 1322	Received by: 	Date/Time: 9/29/23 13:28	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: 16.8	Corrected Temperature	IR gun #: 2	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2309569Client: Eagle Environmental Client Project ID: Grinde 1-64-05 -0108 CShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: _____

X				
---	--	--	--	--

Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 16.8Thermometer # 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.	X			On ice
If custody seals are present, are they intact? ⁽¹⁾			X	
Are samples due within 48 hours present?			X	
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			X	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	X			
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	X			
Were all samples received intact? ⁽¹⁾	X			
Was adequate sample volume provided? ⁽¹⁾	X			
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	X			
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	X			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			X	
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.			X	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.			X	
If dissolved metals are requested, were samples field filtered?			X	
Additional Comments (if any):				

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

 Custodian Printed Name

9/29/23 13:28
 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: Martin Eckert III

Reported:
10/09/23 10:05

CS-SS-01@2'
2309569-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/29/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0110	10/03/23	10/04/23	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: **09/29/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		83.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.0 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/29/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BGJ0113	10/03/23	10/04/23	EPA 8015M	
C28-C36 (ORO)	43	50	4.3	"	"	"	"	"	"	J

Date Sampled: **09/29/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		108 %		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: Martin Eckert III

Reported:
10/09/23 10:05

CS-SS-01@2'
2309569-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/29/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0016	10/02/23	10/03/23	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: **09/29/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		66.7 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		66.9 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/29/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.587	2.00	0.00690	mg/L	1	BGJ0010	10/02/23	10/02/23	EPA 6020B	J

Total Metals by EPA 6020B

Date Sampled: **09/29/23 10:20**

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: Martin Eckert III

Reported:
10/09/23 10:05

CS-SS-01@2'
2309569-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.40	0.200	0.168	mg/kg dry	1	BGJ0023	10/02/23	10/03/23	EPA 6020B	
Barium	141	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.304	0.200	0.00720	"	"	"	"	"	"	
Copper	3.13	0.400	0.0209	"	"	"	"	"	"	
Lead	9.41	0.200	0.0550	"	"	"	"	"	"	
Nickel	3.14	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0659	0.0200	0.00267	"	"	"	"	"	"	
Zinc	10.3	0.400	0.266	"	"	"	"	"	"	
Selenium	0.233	0.260	0.175	"	"	"	"	"	"	J

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/29/23 10:20**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGJ0054	10/02/23	10/04/23	EPA 7196A	

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

Date Sampled: **09/29/23 10:20**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	85.4	0.0601		mg/L dry	1	BGJ0107	10/03/23	10/05/23	EPA 6020B	
Magnesium	29.8	0.0601		"	"	"	"	"	"	
Sodium	232	0.0601		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/29/23 10:20**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.112	0.00100		units	1	BGJ0243	10/06/23	10/06/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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: Martin Eckert III

Reported:
10/09/23 10:05

CS-SS-01@2'
2309569-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/29/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	83.2			%	1	BGJ0009	10/02/23	10/02/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/29/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	1.84	0.0100	0.00100	mmhos/cm	1	BGJ0166	10/04/23	10/04/23	EPA 120.1	

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

Date Sampled: **09/29/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.85			pH Units	1	BGJ0167	10/04/23	10/04/23	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: Martin Eckert III

Reported:
10/09/23 10:05

CS-SS-02@2'
2309569-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/29/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0110	10/03/23	10/04/23	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	0.021	0.50		"	"	"	"	"	"	J

Date Sampled: **09/29/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		81.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.5 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/29/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	38	50	4.3	mg/kg	1	BGJ0113	10/03/23	10/04/23	EPA 8015M	J
C28-C36 (ORO)	27	50	4.3	"	"	"	"	"	"	J

Date Sampled: **09/29/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		135 %		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: Martin Eckert III

Reported:
10/09/23 10:05

CS-SS-02@2'
2309569-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/29/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0016	10/02/23	10/03/23	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: **09/29/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		59.0 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		54.6 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/29/23 10:25**

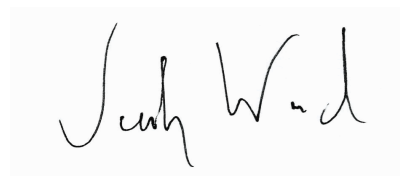
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.163	2.00	0.00690	mg/L	1	BGJ0010	10/02/23	10/02/23	EPA 6020B	J

Total Metals by EPA 6020B

Date Sampled: **09/29/23 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: Martin Eckert III

Reported:
10/09/23 10:05

CS-SS-02@2'
2309569-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.24	0.200	0.168	mg/kg dry	1	BGJ0023	10/02/23	10/03/23	EPA 6020B
Barium	126	0.400	0.316	"	"	"	"	"	"
Cadmium	0.242	0.200	0.00720	"	"	"	"	"	"
Copper	3.22	0.400	0.0209	"	"	"	"	"	"
Lead	8.84	0.200	0.0550	"	"	"	"	"	"
Nickel	2.80	0.400	0.0610	"	"	"	"	"	"
Silver	0.0712	0.0200	0.00267	"	"	"	"	"	"
Zinc	11.2	0.400	0.266	"	"	"	"	"	"
Selenium	ND	0.260	0.175	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/29/23 10:25**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGJ0054	10/02/23	10/04/23	EPA 7196A	

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

Date Sampled: **09/29/23 10:25**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	128	0.0582		mg/L dry	1	BGJ0107	10/03/23	10/05/23	EPA 6020B	
Magnesium	53.2	0.0582		"	"	"	"	"	"	
Sodium	415	0.0582		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/29/23 10:25**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0544	0.00100		units	1	BGJ0243	10/06/23	10/06/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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: Martin Eckert III

Reported:
10/09/23 10:05

CS-SS-02@2'
2309569-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/29/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	86.0			%	1	BGJ0009	10/02/23	10/02/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/29/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	2.72	0.0100	0.00100	mmhos/cm	1	BGJ0166	10/04/23	10/04/23	EPA 120.1	

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

Date Sampled: **09/29/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.15			pH Units	1	BGJ0167	10/04/23	10/04/23	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: Martin Eckert III

Reported:
10/09/23 10:05

CS-SS-04@2'
2309569-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/29/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0110	10/03/23	10/04/23	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	0.024	0.50		"	"	"	"	"	"	J

Date Sampled: **09/29/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		79.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		99.7 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.2 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/29/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BGJ0113	10/03/23	10/04/23	EPA 8015M	
C28-C36 (ORO)	26	50	4.3	"	"	"	"	"	"	J

Date Sampled: **09/29/23 10:35**

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

PAH by EPA Method 8270D SIM

Summit Scientific

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Eagle Environmental Consulting
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Wheat Ridge CO, 80033

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

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
10/09/23 10:05

CS-SS-04@2'
2309569-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/29/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0016	10/02/23	10/03/23	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: **09/29/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		51.7 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		40.6 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/29/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.310	2.00	0.00690	mg/L	1	BGJ0010	10/02/23	10/02/23	EPA 6020B	J

Total Metals by EPA 6020B

Date Sampled: **09/29/23 10:35**

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: Martin Eckert III

Reported:
10/09/23 10:05

CS-SS-04@2'
2309569-03 (Soil)

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Total Metals by EPA 6020B

Arsenic	1.32	0.200	0.168	mg/kg dry	1	BGJ0023	10/02/23	10/03/23	EPA 6020B
Barium	183	0.400	0.316	"	"	"	"	"	"
Cadmium	0.309	0.200	0.00720	"	"	"	"	"	"
Copper	3.10	0.400	0.0209	"	"	"	"	"	"
Lead	9.74	0.200	0.0550	"	"	"	"	"	"
Nickel	3.35	0.400	0.0610	"	"	"	"	"	"
Silver	0.0690	0.0200	0.00267	"	"	"	"	"	"
Zinc	11.3	0.400	0.266	"	"	"	"	"	"
Selenium	ND	0.260	0.175	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/29/23 10:35**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGJ0054	10/02/23	10/04/23	EPA 7196A	

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

Date Sampled: **09/29/23 10:35**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	30.1	0.0591		mg/L dry	1	BGJ0107	10/03/23	10/05/23	EPA 6020B	
Magnesium	8.05	0.0591		"	"	"	"	"	"	
Sodium	87.2	0.0591		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/29/23 10:35**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0181	0.00100		units	1	BGJ0243	10/06/23	10/06/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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8000 W 44th Ave
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Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
10/09/23 10:05

CS-SS-04@2'
2309569-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/29/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	84.6			%	1	BGJ0009	10/02/23	10/02/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/29/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.488	0.0100	0.00100	mmhos/cm	1	BGJ0166	10/04/23	10/04/23	EPA 120.1	

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

Date Sampled: **09/29/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.86			pH Units	1	BGJ0167	10/04/23	10/04/23	EPA 9045D	

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Eagle Environmental Consulting
8000 W 44th Ave
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Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
10/09/23 10:05

CS-SS-05@2'
2309569-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/29/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0110	10/03/23	10/04/23	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	0.020	0.50		"	"	"	"	"	"	J

Date Sampled: **09/29/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		58.0 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		96.7 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.4 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/29/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BGJ0113	10/03/23	10/04/23	EPA 8015M	
C28-C36 (ORO)	24	50	4.3	"	"	"	"	"	"	J

Date Sampled: **09/29/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		115 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
10/09/23 10:05

CS-SS-05@2'
2309569-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/29/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0016	10/02/23	10/03/23	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: **09/29/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		75.9 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		80.3 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/29/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.322	2.00	0.00690	mg/L	1	BGJ0010	10/02/23	10/02/23	EPA 6020B	J

Total Metals by EPA 6020B

Date Sampled: **09/29/23 10:40**

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

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Wheat Ridge CO, 80033

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

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
10/09/23 10:05

CS-SS-05@2'
2309569-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.954	0.200	0.168	mg/kg dry	1	BGJ0023	10/02/23	10/03/23	EPA 6020B	
Barium	40.9	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0777	0.200	0.00720	"	"	"	"	"	"	J
Copper	2.40	0.400	0.0209	"	"	"	"	"	"	
Lead	3.88	0.200	0.0550	"	"	"	"	"	"	
Nickel	2.34	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0204	0.0200	0.00267	"	"	"	"	"	"	
Zinc	8.29	0.400	0.266	"	"	"	"	"	"	
Selenium	0.241	0.260	0.175	"	"	"	"	"	"	J

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/29/23 10:40**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGJ0054	10/02/23	10/04/23	EPA 7196A	

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

Date Sampled: **09/29/23 10:40**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	34.8	0.0530		mg/L dry	1	BGJ0107	10/03/23	10/05/23	EPA 6020B	
Magnesium	11.5	0.0530		"	"	"	"	"	"	
Sodium	306	0.0530		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/29/23 10:40**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0603	0.00100		units	1	BGJ0243	10/06/23	10/06/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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8000 W 44th Ave
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Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
10/09/23 10:05

CS-SS-05@2'
2309569-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/29/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	94.3			%	1	BGJ0009	10/02/23	10/02/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/29/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	2.00	0.0100	0.00100	mmhos/cm	1	BGJ0166	10/04/23	10/04/23	EPA 120.1	

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

Date Sampled: **09/29/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.11			pH Units	1	BGJ0167	10/04/23	10/04/23	EPA 9045D	

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

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
10/09/23 10:05

CS-SS-06@2'
2309569-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/29/23 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0110	10/03/23	10/04/23	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	0.027	0.50		"	"	"	"	"	"	J

Date Sampled: **09/29/23 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		89.9 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		104 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.9 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/29/23 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BGJ0113	10/03/23	10/04/23	EPA 8015M	
C28-C36 (ORO)	22	50	4.3	"	"	"	"	"	"	J

Date Sampled: **09/29/23 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		129 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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8000 W 44th Ave
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Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
10/09/23 10:05

CS-SS-06@2'
2309569-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/29/23 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0016	10/02/23	10/03/23	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: **09/29/23 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		70.5 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		67.7 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/29/23 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.525	2.00	0.00690	mg/L	1	BGJ0010	10/02/23	10/02/23	EPA 6020B	J

Total Metals by EPA 6020B

Date Sampled: **09/29/23 10:45**

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: Martin Eckert III

Reported:
10/09/23 10:05

CS-SS-06@2'
2309569-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.34	0.200	0.168	mg/kg dry	1	BGJ0023	10/02/23	10/03/23	EPA 6020B	
Barium	191	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.360	0.200	0.00720	"	"	"	"	"	"	
Copper	3.32	0.400	0.0209	"	"	"	"	"	"	
Lead	10.9	0.200	0.0550	"	"	"	"	"	"	
Nickel	3.52	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0747	0.0200	0.00267	"	"	"	"	"	"	
Zinc	12.0	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/29/23 10:45**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGJ0054	10/02/23	10/04/23	EPA 7196A	

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

Date Sampled: **09/29/23 10:45**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	25.5	0.0631		mg/L dry	1	BGJ0107	10/03/23	10/05/23	EPA 6020B	
Magnesium	28.7	0.0631		"	"	"	"	"	"	
Sodium	266	0.0631		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/29/23 10:45**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0248	0.00100		units	1	BGJ0243	10/06/23	10/06/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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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: Martin Eckert III

Reported:
10/09/23 10:05

CS-SS-06@2'
2309569-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/29/23 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	79.2			%	1	BGJ0009	10/02/23	10/02/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/29/23 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	1.33	0.0100	0.00100	mmhos/cm	1	BGJ0166	10/04/23	10/04/23	EPA 120.1	

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

Date Sampled: **09/29/23 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.70			pH Units	1	BGJ0167	10/04/23	10/04/23	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: Martin Eckert III

Reported:
10/09/23 10:05

CS-SS-07@2'
2309569-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/29/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0110	10/03/23	10/04/23	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	0.011	0.50		"	"	"	"	"	"	J

Date Sampled: **09/29/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		71.1 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.8 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/29/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BGJ0113	10/03/23	10/04/23	EPA 8015M	
C28-C36 (ORO)	19	50	4.3	"	"	"	"	"	"	J

Date Sampled: **09/29/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		108 %		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: Martin Eckert III

Reported:
10/09/23 10:05

CS-SS-07@2'
2309569-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/29/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0016	10/02/23	10/03/23	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: **09/29/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		68.7 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		66.2 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/29/23 10:50**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.745	2.00	0.00690	mg/L	1	BGJ0010	10/02/23	10/02/23	EPA 6020B	J

Total Metals by EPA 6020B

Date Sampled: **09/29/23 10:50**

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: Martin Eckert III

Reported:
10/09/23 10:05

CS-SS-07@2'
2309569-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.38	0.200	0.168	mg/kg dry	1	BGJ0023	10/02/23	10/03/23	EPA 6020B
Barium	176	0.400	0.316	"	"	"	"	"	"
Cadmium	0.321	0.200	0.00720	"	"	"	"	"	"
Copper	3.20	0.400	0.0209	"	"	"	"	"	"
Lead	9.94	0.200	0.0550	"	"	"	"	"	"
Nickel	3.66	0.400	0.0610	"	"	"	"	"	"
Silver	0.0607	0.0200	0.00267	"	"	"	"	"	"
Zinc	11.5	0.400	0.266	"	"	"	"	"	"
Selenium	ND	0.260	0.175	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/29/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGJ0054	10/02/23	10/04/23	EPA 7196A	

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

Date Sampled: **09/29/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Calcium	56.4	0.0617		mg/L dry	1	BGJ0107	10/03/23	10/05/23	EPA 6020B	
Magnesium	70.5	0.0617		"	"	"	"	"	"	
Sodium	467	0.0617		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/29/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Sodium Adsorption Ratio	0.0393	0.00100		units	1	BGJ0243	10/06/23	10/06/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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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: Martin Eckert III

Reported:
10/09/23 10:05

CS-SS-07@2'
2309569-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/29/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	81.1			%	1	BGJ0009	10/02/23	10/02/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/29/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	2.70	0.0100	0.00100	mmhos/cm	1	BGJ0166	10/04/23	10/04/23	EPA 120.1	

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

Date Sampled: **09/29/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.58			pH Units	1	BGJ0167	10/04/23	10/04/23	EPA 9045D	

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8000 W 44th Ave
Wheat Ridge CO, 80033

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

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
10/09/23 10:05

CS-SS-08@2'
2309569-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/29/23 10:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0110	10/03/23	10/04/23	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	0.013	0.50		"	"	"	"	"	"	J

Date Sampled: **09/29/23 10:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		67.9 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		99.9 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.0 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/29/23 10:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BGJ0113	10/03/23	10/04/23	EPA 8015M	
C28-C36 (ORO)	11	50	4.3	"	"	"	"	"	"	J

Date Sampled: **09/29/23 10:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		127 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
10/09/23 10:05

CS-SS-08@2'
2309569-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/29/23 10:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0016	10/02/23	10/03/23	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: **09/29/23 10:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		64.6 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		62.6 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/29/23 10:55**

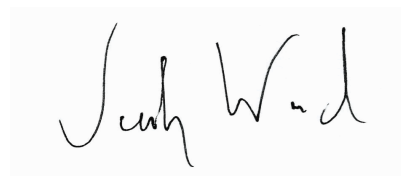
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.379	2.00	0.00690	mg/L	1	BGJ0010	10/02/23	10/02/23	EPA 6020B	J

Total Metals by EPA 6020B

Date Sampled: **09/29/23 10:55**

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

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8000 W 44th Ave
Wheat Ridge CO, 80033

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

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
10/09/23 10:05

CS-SS-08@2'
2309569-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.38	0.200	0.168	mg/kg dry	1	BGJ0023	10/02/23	10/03/23	EPA 6020B	
Barium	164	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.339	0.200	0.00720	"	"	"	"	"	"	
Copper	3.09	0.400	0.0209	"	"	"	"	"	"	
Lead	9.00	0.200	0.0550	"	"	"	"	"	"	
Nickel	3.27	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0712	0.0200	0.00267	"	"	"	"	"	"	
Zinc	11.0	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/29/23 10:55**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGJ0054	10/02/23	10/04/23	EPA 7196A	

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

Date Sampled: **09/29/23 10:55**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	34.9	0.0618		mg/L dry	1	BGJ0107	10/03/23	10/05/23	EPA 6020B	
Magnesium	20.2	0.0618		"	"	"	"	"	"	
Sodium	181	0.0618		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/29/23 10:55**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0263	0.00100		units	1	BGJ0243	10/06/23	10/06/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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: Martin Eckert III

Reported:
10/09/23 10:05

CS-SS-08@2'
2309569-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/29/23 10:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	80.8			%	1	BGJ0009	10/02/23	10/02/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/29/23 10:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	1.02	0.0100	0.00100	mmhos/cm	1	BGJ0166	10/04/23	10/04/23	EPA 120.1	

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

Date Sampled: **09/29/23 10:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.47			pH Units	1	BGJ0167	10/04/23	10/04/23	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: Martin Eckert III

Reported:
10/09/23 10:05

CS-FS-01@3'
2309569-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/29/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0110	10/03/23	10/04/23	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: **09/29/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		71.8 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		104 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.0 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/29/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BGJ0113	10/03/23	10/04/23	EPA 8015M	
C28-C36 (ORO)	13	50	4.3	"	"	"	"	"	"	J

Date Sampled: **09/29/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		126 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Number: [none]
Project Manager: Martin Eckert III

Reported:
10/09/23 10:05

CS-FS-01@3'
2309569-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/29/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0016	10/02/23	10/03/23	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: **09/29/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		69.7 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		67.7 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/29/23 11:00**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.537	2.00	0.00690	mg/L	1	BGJ0010	10/02/23	10/02/23	EPA 6020B	J

Total Metals by EPA 6020B

Date Sampled: **09/29/23 11:00**

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: Martin Eckert III

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10/09/23 10:05

CS-FS-01@3'
2309569-08 (Soil)

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Total Metals by EPA 6020B

Arsenic	1.48	0.200	0.168	mg/kg dry	1	BGJ0023	10/02/23	10/03/23	EPA 6020B	
Barium	289	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.448	0.200	0.00720	"	"	"	"	"	"	
Copper	3.26	0.400	0.0209	"	"	"	"	"	"	
Lead	11.6	0.200	0.0550	"	"	"	"	"	"	
Nickel	3.73	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0698	0.0200	0.00267	"	"	"	"	"	"	
Zinc	11.6	0.400	0.266	"	"	"	"	"	"	
Selenium	0.178	0.260	0.175	"	"	"	"	"	"	J

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/29/23 11:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGJ0054	10/02/23	10/04/23	EPA 7196A	

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

Date Sampled: **09/29/23 11:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	44.5	0.0623		mg/L dry	1	BGJ0107	10/03/23	10/05/23	EPA 6020B	
Magnesium	44.7	0.0623		"	"	"	"	"	"	
Sodium	293	0.0623		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/29/23 11:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0555	0.00100		units	1	BGJ0243	10/06/23	10/06/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
10/09/23 10:05

CS-FS-01@3'
2309569-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/29/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	80.2			%	1	BGJ0009	10/02/23	10/02/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/29/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	1.62	0.0100	0.00100	mmhos/cm	1	BGJ0166	10/04/23	10/04/23	EPA 120.1	

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

Date Sampled: **09/29/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.63			pH Units	1	BGJ0167	10/04/23	10/04/23	EPA 9045D	

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8000 W 44th Ave
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Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
10/09/23 10:05

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGJ0110 - EPA 5030 Soil MS

Blank (BGJ0110-BLK1)

Prepared & Analyzed: 10/03/23

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	0.0298		"	0.0400		74.5	50-150			
Surrogate: Toluene-d8	0.0392		"	0.0400		98.1	50-150			
Surrogate: 4-Bromofluorobenzene	0.0380		"	0.0400		95.0	50-150			

LCS (BGJ0110-BS1)

Prepared & Analyzed: 10/03/23

Benzene	0.109	0.0020	mg/kg	0.100		109	70-130			
Toluene	0.111	0.0050	"	0.100		111	70-130			
Ethylbenzene	0.116	0.0050	"	0.100		116	70-130			
m,p-Xylene	0.225	0.010	"	0.200		113	70-130			
o-Xylene	0.108	0.0050	"	0.100		108	70-130			
1,2,4-Trimethylbenzene	0.108	0.0050	"	0.100		108	70-130			
1,3,5-Trimethylbenzene	0.111	0.0050	"	0.100		111	70-130			
Naphthalene	0.0835	0.0038	"	0.100		83.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0294		"	0.0400		73.4	50-150			
Surrogate: Toluene-d8	0.0410		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0385		"	0.0400		96.2	50-150			

Matrix Spike (BGJ0110-MS1)

Source: 2309527-01

Prepared & Analyzed: 10/03/23

Benzene	0.0976	0.0020	mg/kg	0.100	ND	97.6	70-130			
Toluene	0.0910	0.0050	"	0.100	ND	91.0	70-130			
Ethylbenzene	0.0873	0.0050	"	0.100	ND	87.3	70-130			
m,p-Xylene	0.168	0.010	"	0.200	ND	83.9	70-130			
o-Xylene	0.0828	0.0050	"	0.100	ND	82.8	70-130			
1,2,4-Trimethylbenzene	0.0753	0.0050	"	0.100	ND	75.3	70-130			
1,3,5-Trimethylbenzene	0.0756	0.0050	"	0.100	ND	75.6	70-130			
Naphthalene	0.0715	0.0038	"	0.100	ND	71.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0328		"	0.0400		82.1	50-150			
Surrogate: Toluene-d8	0.0403		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0386		"	0.0400		96.6	50-150			

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

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
10/09/23 10:05

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

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

Batch BGJ0110 - EPA 5030 Soil MS

Matrix Spike Dup (BGJ0110-MSD1)

Source: 2309527-01

Prepared & Analyzed: 10/03/23

Benzene	0.105	0.0020	mg/kg	0.100	ND	105	70-130	6.86	30	
Toluene	0.0977	0.0050	"	0.100	ND	97.7	70-130	7.15	30	
Ethylbenzene	0.0980	0.0050	"	0.100	ND	98.0	70-130	11.5	30	
m,p-Xylene	0.189	0.010	"	0.200	ND	94.7	70-130	12.1	30	
o-Xylene	0.0920	0.0050	"	0.100	ND	92.0	70-130	10.5	30	
1,2,4-Trimethylbenzene	0.0832	0.0050	"	0.100	ND	83.2	70-130	9.95	30	
1,3,5-Trimethylbenzene	0.0838	0.0050	"	0.100	ND	83.8	70-130	10.3	30	
Naphthalene	0.0760	0.0038	"	0.100	ND	76.0	70-130	6.18	30	
Surrogate: 1,2-Dichloroethane-d4	0.0321		"	0.0400		80.2	50-150			
Surrogate: Toluene-d8	0.0402		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0378		"	0.0400		94.6	50-150			

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

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
10/09/23 10:05

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGJ0113 - EPA 3550A

Blank (BGJ0113-BLK1)

Prepared: 10/03/23 Analyzed: 10/04/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	16.0		"	12.5		128	30-150			

LCS (BGJ0113-BS1)

Prepared: 10/03/23 Analyzed: 10/04/23

C10-C28 (DRO)	430	50	mg/kg	500		86.0	70-130			
Surrogate: o-Terphenyl	17.7		"	12.5		142	30-150			

Matrix Spike (BGJ0113-MS1)

Source: 2309527-01

Prepared: 10/03/23 Analyzed: 10/04/23

C10-C28 (DRO)	451	50	mg/kg	500	39.9	82.3	70-130			
Surrogate: o-Terphenyl	15.2		"	12.5		121	30-150			


Matrix Spike Dup (BGJ0113-MSD1)

Source: 2309527-01

Prepared: 10/03/23 Analyzed: 10/04/23

C10-C28 (DRO)	459	50	mg/kg	500	39.9	83.9	70-130	1.78	20	
Surrogate: o-Terphenyl	13.8		"	12.5		110	30-150			

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

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
10/09/23 10:05

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGJ0016 - EPA 5030 Soil MS

Blank (BGJ0016-BLK1)

Prepared & Analyzed: 10/02/23

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	"								
Surrogate: 2-Methylnaphthalene-d10	0.0361		"	0.0333		108		40-150			
Surrogate: Fluoranthene-d10	0.0433		"	0.0333		130		40-150			

LCS (BGJ0016-BS1)

Prepared & Analyzed: 10/02/23

Acenaphthene	0.0331	0.00500	mg/kg	0.0333		99.4		31-137			
Anthracene	0.0311	0.00500	"	0.0333		93.4		30-120			
Benzo (a) anthracene	0.0258	0.00500	"	0.0333		77.4		30-120			
Benzo (a) pyrene	0.0276	0.00500	"	0.0333		82.7		30-120			
Benzo (b) fluoranthene	0.0303	0.00500	"	0.0333		90.8		30-120			
Benzo (k) fluoranthene	0.0328	0.00500	"	0.0333		98.5		30-120			
Chrysene	0.0298	0.00500	"	0.0333		89.4		30-120			
Dibenz (a,h) anthracene	0.0296	0.00500	"	0.0333		88.8		30-120			
Fluoranthene	0.0314	0.00500	"	0.0333		94.1		30-120			
Fluorene	0.0319	0.00500	"	0.0333		95.7		30-120			
Indeno (1,2,3-cd) pyrene	0.0312	0.00500	"	0.0333		93.6		30-120			
Pyrene	0.0224	0.00500	"	0.0333		67.3		35-142			
1-Methylnaphthalene	0.0269	0.00500	"	0.0333		80.7		35-142			
2-Methylnaphthalene	0.0339	0.00500	"	0.0333		102		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0263		"	0.0333		79.0		40-150			
Surrogate: Fluoranthene-d10	0.0330		"	0.0333		99.1		40-150			

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Project Number: [none]
Project Manager: Martin Eckert III

Reported:
10/09/23 10:05

PAH by EPA Method 8270D SIM - Quality Control

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

Batch BGJ0016 - EPA 5030 Soil MS

Matrix Spike (BGJ0016-MS1)

Source: 2309565-01

Prepared & Analyzed: 10/02/23

Acenaphthene	0.0306	0.00500	mg/kg	0.0333	ND	91.9	31-137				
Anthracene	0.0254	0.00500	"	0.0333	ND	76.3	30-120				
Benzo (a) anthracene	0.0227	0.00500	"	0.0333	ND	68.0	30-120				
Benzo (a) pyrene	0.0216	0.00500	"	0.0333	ND	64.7	30-120				
Benzo (b) fluoranthene	0.0263	0.00500	"	0.0333	ND	78.9	30-120				
Benzo (k) fluoranthene	0.0279	0.00500	"	0.0333	ND	83.6	30-120				
Chrysene	0.0251	0.00500	"	0.0333	ND	75.4	30-120				
Dibenz (a,h) anthracene	0.0251	0.00500	"	0.0333	ND	75.3	30-120				
Fluoranthene	0.0252	0.00500	"	0.0333	ND	75.5	30-120				
Fluorene	0.0270	0.00500	"	0.0333	ND	81.0	30-120				
Indeno (1,2,3-cd) pyrene	0.0252	0.00500	"	0.0333	ND	75.6	30-120				
Pyrene	0.0179	0.00500	"	0.0333	ND	53.6	35-142				
1-Methylnaphthalene	0.0241	0.00500	"	0.0333	ND	72.2	15-130				
2-Methylnaphthalene	0.0275	0.00500	"	0.0333	ND	82.4	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0245		"	0.0333		73.4	40-150				
Surrogate: Fluoranthene-d10	0.0277		"	0.0333		83.0	40-150				

Matrix Spike Dup (BGJ0016-MSD1)

Source: 2309565-01

Prepared & Analyzed: 10/02/23

Acenaphthene	0.0250	0.00500	mg/kg	0.0333	ND	75.0	31-137	20.3	30
Anthracene	0.0235	0.00500	"	0.0333	ND	70.4	30-120	7.97	30
Benzo (a) anthracene	0.0192	0.00500	"	0.0333	ND	57.7	30-120	16.4	30
Benzo (a) pyrene	0.0229	0.00500	"	0.0333	ND	68.8	30-120	6.26	30
Benzo (b) fluoranthene	0.0241	0.00500	"	0.0333	ND	72.4	30-120	8.70	30
Benzo (k) fluoranthene	0.0258	0.00500	"	0.0333	ND	77.4	30-120	7.65	30
Chrysene	0.0233	0.00500	"	0.0333	ND	69.9	30-120	7.57	30
Dibenz (a,h) anthracene	0.0233	0.00500	"	0.0333	ND	69.8	30-120	7.63	30
Fluoranthene	0.0231	0.00500	"	0.0333	ND	69.4	30-120	8.38	30
Fluorene	0.0249	0.00500	"	0.0333	ND	74.8	30-120	7.85	30
Indeno (1,2,3-cd) pyrene	0.0247	0.00500	"	0.0333	ND	74.2	30-120	1.86	30
Pyrene	0.0161	0.00500	"	0.0333	ND	48.2	35-142	10.7	30
1-Methylnaphthalene	0.0221	0.00500	"	0.0333	ND	66.3	15-130	8.54	50
2-Methylnaphthalene	0.0267	0.00500	"	0.0333	ND	80.0	15-130	2.93	50
Surrogate: 2-Methylnaphthalene-d10	0.0226		"	0.0333		67.9	40-150		
Surrogate: Fluoranthene-d10	0.0253		"	0.0333		76.0	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: Martin Eckert III

Reported:
10/09/23 10:05

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

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

Batch BGJ0010 - EPA 3050B

Blank (BGJ0010-BLK1)

Prepared & Analyzed: 10/02/23

Boron ND 2.00 mg/L

LCS (BGJ0010-BS1)

Prepared & Analyzed: 10/02/23

Boron 5.19 2.00 mg/L 5.00 104 80-120

Duplicate (BGJ0010-DUP1)

Source: 2309565-01

Prepared & Analyzed: 10/02/23

Boron 0.0277 2.00 mg/L 0.0468 51.3 20 QR-01, J

Matrix Spike (BGJ0010-MS1)

Source: 2309565-01

Prepared & Analyzed: 10/02/23

Boron 5.00 2.00 mg/L 5.00 0.0468 99.0 75-125

Matrix Spike Dup (BGJ0010-MSD1)

Source: 2309565-01

Prepared & Analyzed: 10/02/23

Boron 5.19 2.00 mg/L 5.00 0.0468 103 75-125 3.66 25

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8000 W 44th Ave
Wheat Ridge CO, 80033

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

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
10/09/23 10:05

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGJ0023 - EPA 3050B

Blank (BGJ0023-BLK1)

Prepared: 10/02/23 Analyzed: 10/03/23

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

LCS (BGJ0023-BS1)

Prepared: 10/02/23 Analyzed: 10/03/23

Arsenic	41.0	0.200	mg/kg wet	40.0	102	80-120
Barium	40.7	0.400	"	40.0	102	80-120
Cadmium	2.06	0.200	"	2.00	103	80-120
Copper	38.4	0.400	"	40.0	96.1	80-120
Lead	23.8	0.200	"	20.0	119	80-120
Nickel	42.5	0.400	"	40.0	106	80-120
Silver	2.37	0.0200	"	2.00	118	80-120
Zinc	40.5	0.400	"	40.0	101	80-120

Duplicate (BGJ0023-DUP1)

Source: 2309531-01

Prepared: 10/02/23 Analyzed: 10/03/23

Arsenic	1.97	0.200	mg/kg dry	0.728	92.3	20	QR-01
Barium	35.3	0.400	"	35.3	0.141	20	
Cadmium	0.169	0.200	"	0.119	34.8	20	QR-01, J
Copper	1.13	0.400	"	0.785	35.9	20	QR-01
Lead	10.2	0.200	"	9.26	9.17	20	
Nickel	1.31	0.400	"	0.826	45.6	20	QR-01
Silver	0.0108	0.0200	"	0.0120	10.9	20	J
Zinc	3.47	0.400	"	2.55	30.6	20	QR-01
Selenium	ND	0.260	"	ND		200	

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Wheat Ridge CO, 80033

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

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
10/09/23 10:05

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGJ0023 - EPA 3050B

Matrix Spike (BGJ0023-MS1)		Source: 2309531-01			Prepared: 10/02/23 Analyzed: 10/03/23					
Arsenic	22.3	0.200	mg/kg dry	41.4	0.728	52.0	75-125			QM-07
Barium	73.4	0.400	"	41.4	35.3	91.9	75-125			
Cadmium	2.51	0.200	"	2.07	0.119	115	75-125			
Copper	21.4	0.400	"	41.4	0.785	49.8	75-125			QM-07
Lead	25.6	0.200	"	20.7	9.26	78.8	75-125			
Nickel	21.7	0.400	"	41.4	0.826	50.3	75-125			QM-07
Silver	2.33	0.0200	"	2.07	0.0120	112	75-125			
Zinc	24.9	0.400	"	41.4	2.55	54.0	75-125			QM-07

Matrix Spike Dup (BGJ0023-MSD1)		Source: 2309531-01			Prepared: 10/02/23 Analyzed: 10/03/23					
Arsenic	22.6	0.200	mg/kg dry	41.4	0.728	52.7	75-125	1.34	25	QM-07
Barium	72.2	0.400	"	41.4	35.3	89.0	75-125	1.69	25	
Cadmium	2.51	0.200	"	2.07	0.119	116	75-125	0.0824	25	
Copper	21.4	0.400	"	41.4	0.785	49.7	75-125	0.244	25	QM-07
Lead	25.0	0.200	"	20.7	9.26	76.1	75-125	2.19	25	
Nickel	21.7	0.400	"	41.4	0.826	50.5	75-125	0.288	25	QM-07
Silver	2.31	0.0200	"	2.07	0.0120	111	75-125	0.999	25	
Zinc	25.0	0.400	"	41.4	2.55	54.2	75-125	0.345	25	QM-07

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

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
10/09/23 10:05

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGJ0054 - 3060A Mod

Blank (BGJ0054-BLK1)

Prepared: 10/02/23 Analyzed: 10/04/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGJ0054-BS1)

Prepared: 10/02/23 Analyzed: 10/04/23

Chromium, Hexavalent 25.0 0.30 mg/kg wet 25.0 100 80-120

Duplicate (BGJ0054-DUP1)

Source: 2309528-01

Prepared: 10/02/23 Analyzed: 10/04/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGJ0054-MS1)

Source: 2309528-01

Prepared: 10/02/23 Analyzed: 10/04/23

Chromium, Hexavalent 27.9 0.30 mg/kg dry 27.9 ND 100 75-125

Matrix Spike Dup (BGJ0054-MSD1)

Source: 2309528-01

Prepared: 10/02/23 Analyzed: 10/04/23

Chromium, Hexavalent 28.0 0.30 mg/kg dry 27.9 ND 101 75-125 0.598 20

Summit Scientific

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

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
10/09/23 10:05

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

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

Batch BGJ0107 - General Preparation

Blank (BGJ0107-BLK1)

Prepared: 10/03/23 Analyzed: 10/05/23

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

LCS (BGJ0107-BS1)

Prepared: 10/03/23 Analyzed: 10/05/23

Calcium	5.52	0.0500	mg/L wet	5.00	110	70-130
Magnesium	4.98	0.0500	"	5.00	99.5	70-130
Sodium	5.64	0.0500	"	5.00	113	70-130

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

Project Number: [none]

Project Manager: Martin Eckert III

Reported:

10/09/23 10:05

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

Summit Scientific

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

Batch BGJ0009 - General Preparation

Duplicate (BGJ0009-DUP1)

Source: 2309565-01

Prepared & Analyzed: 10/02/23

% Solids	87.0	%	87.0	0.0198	20
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Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
10/09/23 10:05

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

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

Batch BGJ0166 - General Preparation

Blank (BGJ0166-BLK1)

Prepared & Analyzed: 10/04/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGJ0166-BS1)

Prepared & Analyzed: 10/04/23

Specific Conductance (EC) 0.150 0.0100 mmhos/cm 0.150 100 95-105

Duplicate (BGJ0166-DUP1)

Source: 2309569-01

Prepared & Analyzed: 10/04/23

Specific Conductance (EC) 1.81 0.0100 mmhos/cm 1.84 1.75 20

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: Martin Eckert III

Reported:

10/09/23 10:05

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

Summit Scientific

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

Batch BGJ0167 - General Preparation

LCS (BGJ0167-BS1)

Prepared & Analyzed: 10/04/23

pH	9.09	pH Units	9.18	99.0	95-105
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Duplicate (BGJ0167-DUP1)

Source: 2309569-01

Prepared & Analyzed: 10/04/23

pH	7.83	pH Units	7.85	0.255	20
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8000 W 44th Ave
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Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
10/09/23 10:05

Notes and Definitions

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.
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