



## **FIGURES**

**Figure 1: Topographic Site Location Map**

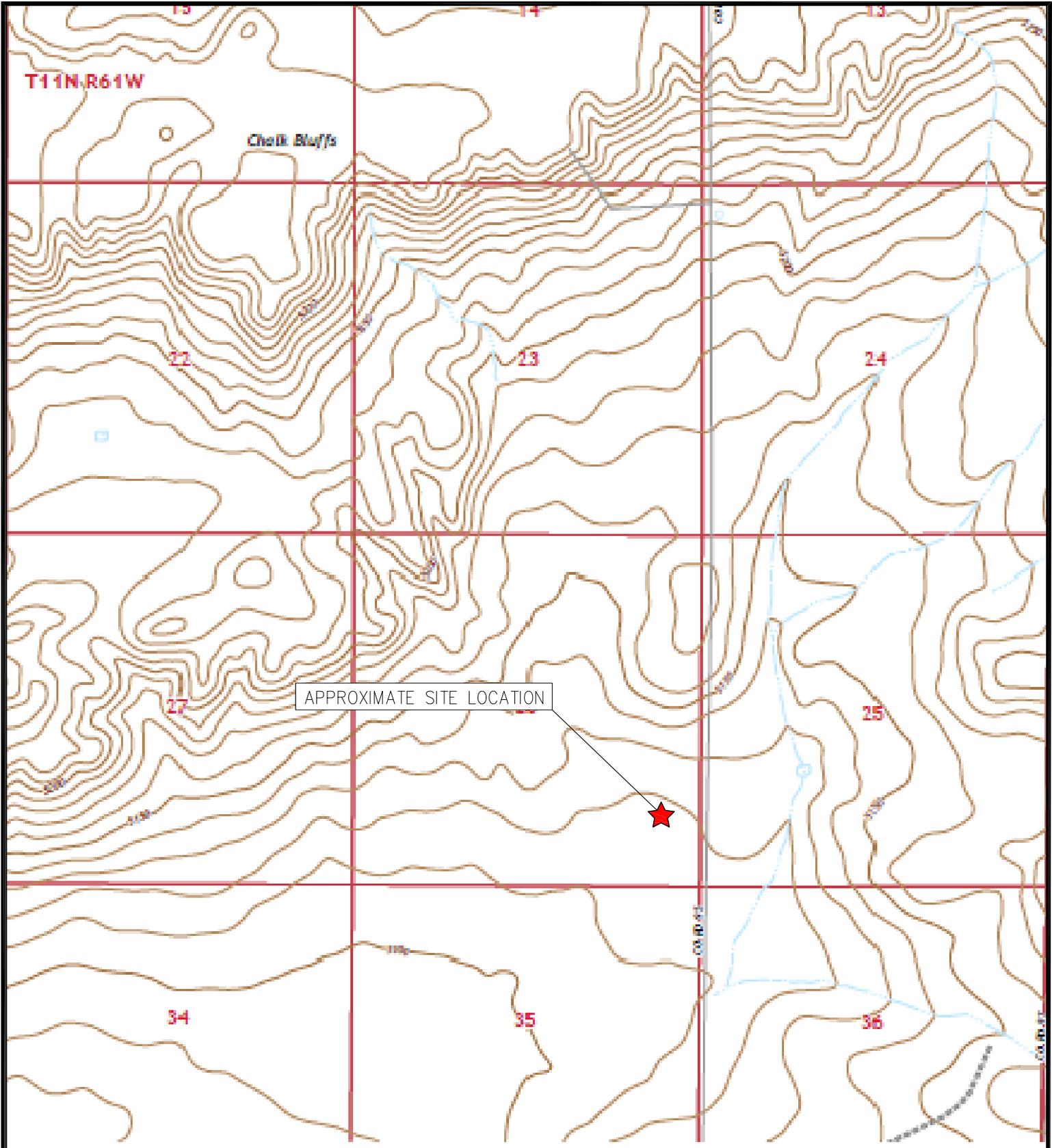
**Figure 2: Aerial Site Location Map**

**Figure 3: Initial Assessment Soil Analytical Map**

**Figure 4: Initial Assessment Polycyclic Aromatic Hydrocarbons Map**

**Figure 5: Metals in Soil Map**

**Figure 6: Confirmation Soil Analytical Map**



TOPOGRAPHIC SITE LOCATION MAP  
 COX PC GK 26-99HZ  
 VALVE RELEASE  
 40.888245 / -104.165144  
 SE ¼ SE ¼ SEC.26 T11N R61W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 418179  
 REMEDIATION # 26411



**EAGLE**  
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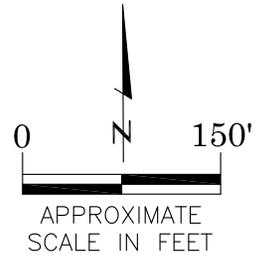
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP,  
 GROVER NORTH, CO QUADRANGLE 2022

FIGURE 1



LEGEND

- COX PC GK 26-99HZ APPROXIMATE RELEASE LOCATION
- APPROXIMATE TANK BATTERY BOUNDARIES



AERIAL SITE LOCATION MAP

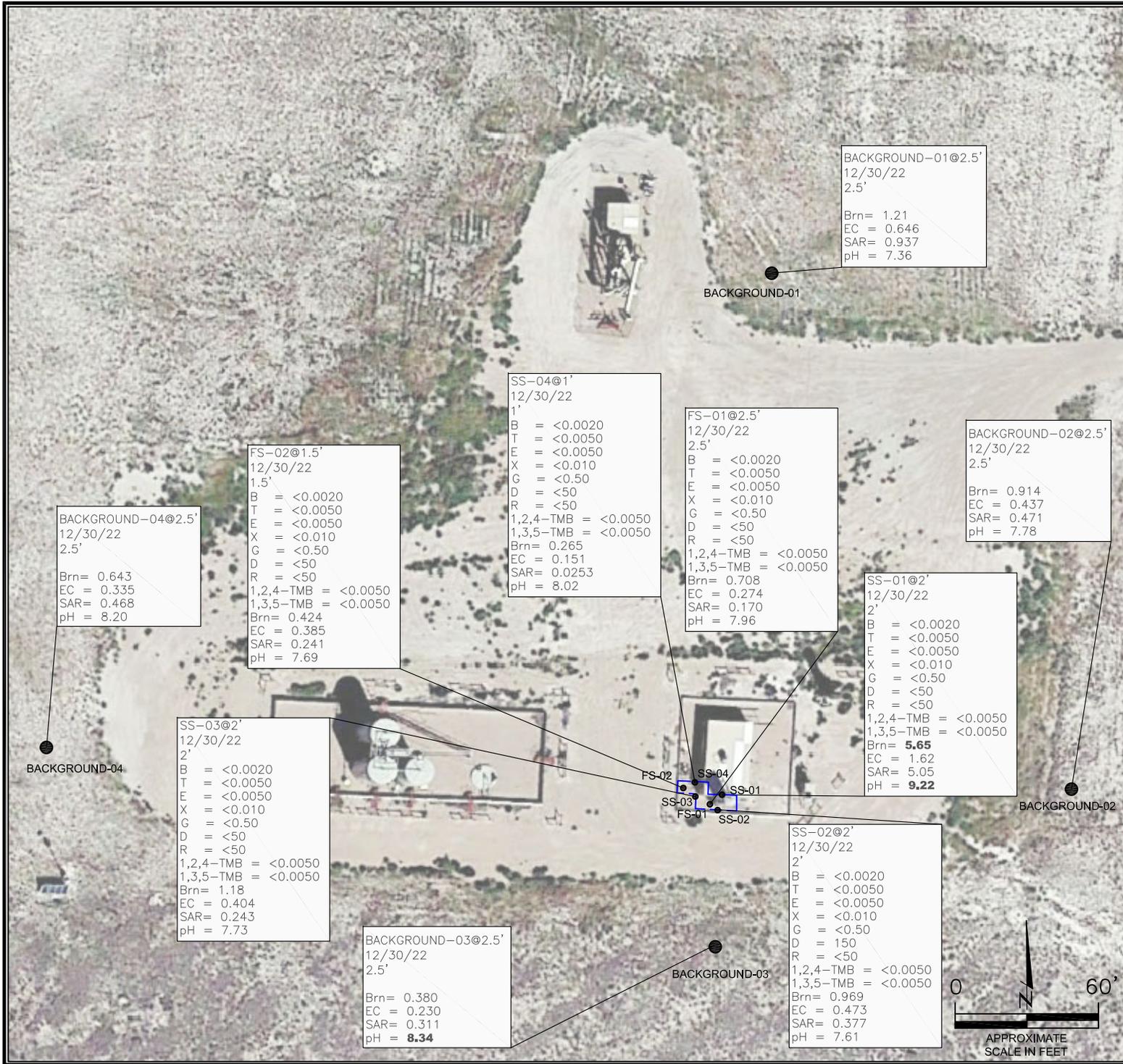
COX PC GK 26-99HZ  
VALVE RELEASE  
40.888245 / -104.165144  
SE $\frac{1}{4}$  SE $\frac{1}{4}$  SEC.26 T11N R61W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 418179  
REMEDIAL # 26411

DATE: 01/03/23

FIG. NO. 2  
DRAWN BY: IM



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**LEGEND**

- INITIAL ASSESSMENT BOUNDARIES
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

**PARAMETERS**

SAMPLE LOCATION	
DATE	
DEPTH (FEET)	
B = BENZENE (mg/kg)	
T = TOLUENE (mg/kg)	
E = ETHYLBENZENE (mg/kg)	
X = TOTAL XYLENES (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)	
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 = MILLIHOS PER CENTIMETER

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:  
 VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS.

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

VALUES PRESENTED WITH ASTERISK (\*) EXCEED COGCC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS.

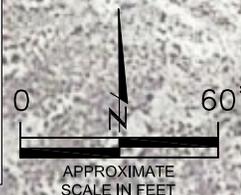
COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

**INITIAL ASSESSMENT SOIL ANALYTICAL MAP**

COX PC GK 26-99HZ  
 VALVE RELEASE  
 40.888245 / -104.165144  
 SE 1/4 SE 1/4 SEC.26 T11N R61W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 418179  
 REMEDIATION # 26411

DATE: 03/02/23  
 DRAWN BY: AMN  
 FIG. NO. 3

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**LEGEND**

- INITIAL ASSESSMENT BOUNDARIES
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- SS-01 APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

**PARAMETERS**

SAMPLE LOCATION  
 DATE SAMPLE COLLECTED  
 APPROXIMATE DEPTH  
 POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

(BRL) - ALL VALUES BELOW REGULATORY LIMITS

NOTES:  
 VALUES PRESENTED IN **BOLD** CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 REGULATORY LIMITS.

VALUES PRESENTED WITH AN ASTERISK (\*) EXCEED COGCC TABLE 915-1 GROUNDWATER SOIL SCREENING LEVELS.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

SS-02@2'  
 12/30/22  
 2'  
 1-Methylnaphthalene = **0.00788\***  
 2-Methylnaphthalene = <0.00500  
 Acenaphthene = <0.00500  
 Anthracene = <0.00500  
 Benzo(a)anthracene = <0.00500  
 Benzo(a)pyrene = <0.00500  
 Benzo(b)fluoranthene = <0.00500  
 Benzo(k)fluoranthene = <0.00500  
 Chrysene = 0.007124  
 Dibenzo(a,h)anthracene = <0.00500  
 Fluoranthene = <0.00500  
 Fluorene = 0.00941  
 Indeno(1,2,3-CD)pyrene = <0.00500  
 Naphthalene = <0.0038  
 Pyrene = <0.00500

SS-01@2'  
 12/30/22  
 2'  
 (BRL)

SS-04@1'  
 12/30/22  
 1'  
 (BRL)

FS-02@1.5'  
 12/30/22  
 1.5'  
 (BRL)

SS-03@2'  
 12/30/22  
 2'  
 (BRL)

FS-01@2.5'  
 12/30/22  
 2.5'  
 (BRL)

**INITIAL ASSESSMENT POLYCYCLIC AROMATIC**

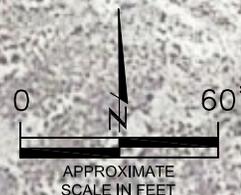
HYDROCARBONS MAP  
 COX PC GK 26-99HZ  
 VALVE RELEASE  
 40.888245 / -104.165144  
 SE 1/4 SEC.26 T11N R61W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 418179  
 REMEDIATION # 26411

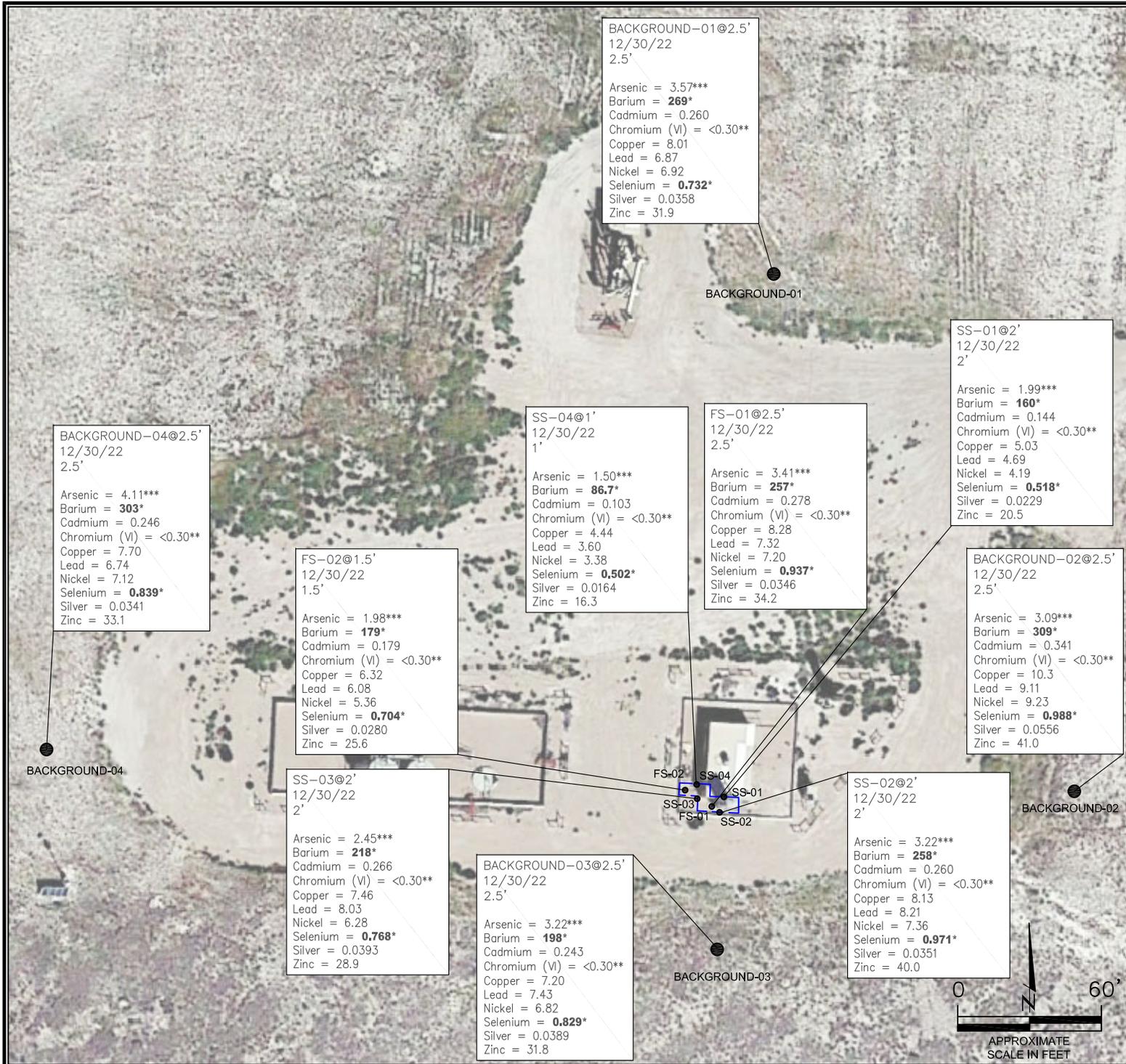
DATE:  
 03/02/23  
 DRAWN BY:  
 AMN

FIG.  
 NO. 4



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BACKGROUND-01@2.5'  
12/30/22  
2.5'

Arsenic = 3.57\*\*\*  
Barium = **269\***  
Cadmium = 0.260  
Chromium (VI) = <0.30\*\*  
Copper = 8.01  
Lead = 6.87  
Nickel = 6.92  
Selenium = **0.732\***  
Silver = 0.0358  
Zinc = 31.9

BACKGROUND-01

SS-01@2'  
12/30/22  
2'

Arsenic = 1.99\*\*\*  
Barium = **160\***  
Cadmium = 0.144  
Chromium (VI) = <0.30\*\*  
Copper = 5.03  
Lead = 4.69  
Nickel = 4.19  
Selenium = **0.518\***  
Silver = 0.0229  
Zinc = 20.5

FS-01@2.5'  
12/30/22  
2.5'

Arsenic = 3.41\*\*\*  
Barium = **257\***  
Cadmium = 0.278  
Chromium (VI) = <0.30\*\*  
Copper = 8.28  
Lead = 7.32  
Nickel = 7.20  
Selenium = **0.937\***  
Silver = 0.0346  
Zinc = 34.2

BACKGROUND-02@2.5'  
12/30/22  
2.5'

Arsenic = 3.09\*\*\*  
Barium = **309\***  
Cadmium = 0.341  
Chromium (VI) = <0.30\*\*  
Copper = 10.3  
Lead = 9.11  
Nickel = 9.23  
Selenium = **0.988\***  
Silver = 0.0556  
Zinc = 41.0

BACKGROUND-02

SS-04@1'  
12/30/22  
1'

Arsenic = 1.50\*\*\*  
Barium = **86.7\***  
Cadmium = 0.103  
Chromium (VI) = <0.30\*\*  
Copper = 4.44  
Lead = 3.60  
Nickel = 3.38  
Selenium = **0.502\***  
Silver = 0.0164  
Zinc = 16.3

FS-02@1.5'  
12/30/22  
1.5'

Arsenic = 1.98\*\*\*  
Barium = **179\***  
Cadmium = 0.179  
Chromium (VI) = <0.30\*\*  
Copper = 6.32  
Lead = 6.08  
Nickel = 5.36  
Selenium = **0.704\***  
Silver = 0.0280  
Zinc = 25.6

BACKGROUND-04@2.5'  
12/30/22  
2.5'

Arsenic = 4.11\*\*\*  
Barium = **303\***  
Cadmium = 0.246  
Chromium (VI) = <0.30\*\*  
Copper = 7.70  
Lead = 6.74  
Nickel = 7.12  
Selenium = **0.839\***  
Silver = 0.0341  
Zinc = 33.1

BACKGROUND-04

SS-03@2'  
12/30/22  
2'

Arsenic = 2.45\*\*\*  
Barium = **218\***  
Cadmium = 0.266  
Chromium (VI) = <0.30\*\*  
Copper = 7.46  
Lead = 8.03  
Nickel = 6.28  
Selenium = **0.768\***  
Silver = 0.0393  
Zinc = 28.9

BACKGROUND-03@2.5'  
12/30/22  
2.5'

Arsenic = 3.22\*\*\*  
Barium = **198\***  
Cadmium = 0.243  
Chromium (VI) = <0.30\*\*  
Copper = 7.20  
Lead = 7.43  
Nickel = 6.82  
Selenium = **0.829\***  
Silver = 0.0389  
Zinc = 31.8

BACKGROUND-03

SS-02@2'  
12/30/22  
2'

Arsenic = 3.22\*\*\*  
Barium = **258\***  
Cadmium = 0.260  
Chromium (VI) = <0.30\*\*  
Copper = 8.13  
Lead = 8.21  
Nickel = 7.36  
Selenium = **0.971\***  
Silver = 0.0351  
Zinc = 40.0

**LEGEND**

- INITIAL ASSESSMENT BOUNDARIES
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

**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:  
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT/OR ABOVE LABORATORY REPORTING LIMITS AND/OR MINIMUM DETECTION LIMITS.

VALUES PRESENTED WITH **BOLD** VALUES CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 VALUES

VALUES PRESENTED WITH AN ASTERISK (\*) EXCEED COGCC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS.

\*\*ACHIEVABLE PRACTICAL QUANTITATIVE LIMITS FOR HEXAVALENT CHROMIUM (Cr VI) IN SOILS IS IN THE RANGE OF 0.1 TO 1 mg/kg.

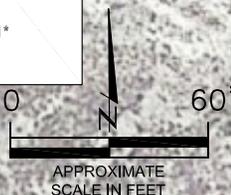
\*\*\*LOCAL "CLEAN-UP LEVEL" (4.38 mg/kg) IS 1.25\*BACKGROUND AVERAGE (3.50 mg/kg).

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

**METALS IN SOIL MAP**  
COX PC GK 26-99HZ  
VALVE RELEASE  
40.888245 / -104.165144  
SE ¼ SE ¼ SEC.26 T11N R61W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 418179  
REMEDIATION # 26411

DATE:  
03/02/23  
DRAWN BY:  
AMN  
FIG.  
NO. 5

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**LEGEND**

- INITIAL ASSESSMENT BOUNDARIES
- OVER-EXCAVATION BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION
DATE
DEPTH (FEET)
B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (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)
Brn= BORON (mg/L)
EC = SPECIFIC CONDUCTANCE (mmhos/cm)
SAR= SODIUM ADSORPTION RATIO
pH = pH (pH UNITS)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

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

**BRL** - ALL CONCENTRATIONS **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:  
 VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS.

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

VALUES PRESENTED WITH ASTERISK (\*) EXCEED COGCC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS.

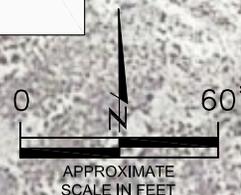
COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

**CONFIRMATION SOIL ANALYTICAL MAP**

COX PC GK 26-99HZ  
 VALVE RELEASE  
 40.888245 / -104.165144  
 SE 1/4 SEC. 26 T11N R61W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 418179  
 REMEDIATION # 26411

DATE: 03/02/23  
 DRAWN BY: AMN  
 FIG. NO. 6

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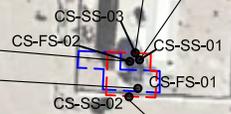
CS-SS-03@2.5'  
 02/21/23  
 2.5'  
 B = <0.0020  
 T = <0.0050  
 E = <0.0050  
 X = <0.010  
 G = 0.0093  
 D = 19  
 R = <50  
 1,2,4-TMB = <0.0050  
 1,3,5-TMB = <0.0050  
 Brn= 0.451  
 EC = 0.629  
 SAR= 1.53  
 pH = **8.83**  
 PAHs = BRL

CS-SS-01@2.5'  
 02/07/23  
 2.5'  
 B = <0.0020  
 T = <0.0050  
 E = <0.0050  
 X = <0.010  
 G = 0.11  
 D = 11  
 R = 5.5  
 1,2,4-TMB = <0.0050  
 1,3,5-TMB = <0.0050  
 Brn= **3.25**  
 EC = 2.08  
 SAR= 5.84  
 pH = **8.84**  
 PAHs = BRL

CS-FS-02@3'  
 02/21/23  
 3'  
 B = <0.0020  
 T = <0.0050  
 E = <0.0050  
 X = <0.010  
 G = 0.0098  
 D = 12  
 R = 4.6  
 1,2,4-TMB = <0.0050  
 1,3,5-TMB = <0.0050  
 Brn= 0.445  
 EC = 3.60  
 SAR= **17.2**  
 pH = 7.90  
 PAHs = BRL

CS-SS-02@2.5'  
 02/07/23  
 2.5'  
 B = <0.0020  
 T = <0.0050  
 E = <0.0050  
 X = <0.010  
 G = 0.12  
 D = 12  
 R = 4.9  
 1,2,4-TMB = <0.0050  
 1,3,5-TMB = <0.0050  
 Brn= 0.349  
 EC = 0.670  
 SAR= 2.03  
 pH = 7.79  
 PAHs = BRL

CS-FS-01@3'  
 02/07/23  
 3'  
 B = <0.0020  
 T = <0.0050  
 E = <0.0050  
 X = <0.010  
 G = 0.12  
 D = 16  
 R = <50  
 1,2,4-TMB = <0.0050  
 1,3,5-TMB = <0.0050  
 Brn= 0.170  
 EC = 1.37  
 SAR= 4.60  
 pH = 7.68  
 PAHs = BRL





## **TABLES**

**Table 1: Photoionization Detector Reading Summary**

**Table 2: Soil Analytical Results Summary**

**TABLE 1**  
**PHOTOIONIZATION DETECTOR READING SUMMARY**  
**COX PC GK 26-99HZ**  
**VALVE RELEASE**  
**40.888245 / -104.165144**  
**SE1/4 SE1/4 SEC.26 T11N R61W 6PM**  
**WELD COUNTY, COLORADO**  
**LOCATION ID 418179**  
**REMEDATION # 26411**

<b>Sample Location</b> (Latitude/Longitude)	<b>Date</b>	<b>Approximate Depth</b> (feet)	<b>PID Reading</b> (ppm-v)	<b>Lab Submission</b> (Y/N)
SS-01 @ 2' (40.888249 / -104.165141)	12/30/22	2	1.1	Y
SS-02 @ 2' (40.888230 / -104.165137)	12/30/22	2	0.4	Y
SS-03 @ 2' (40.888235 / -104.165177)	12/30/22	2	0.9	Y
SS-04 @ 1' (40.888259 / -104.165186)	12/30/22	1	0.9	Y
FS-01 @ 2.5' (40.888237 / -104.165157)	12/30/22	2.5	0.6	Y
FS-02 @ 1.5' (40.888252 / -104.165191)	12/30/22	1.5	1.4	Y
Background-01 @ 2.5' (40.888857 / -104.165034)	12/30/22	2.5	0.9	Y
Background-02 @ 2.5' (40.888236 / -104.164614)	12/30/22	2.5	0.3	Y
Background-03 @ 2.5' (40.888075 / -104.165166)	12/30/22	2.5	0.2	Y
Background-04 @ 2.5' (40.888313 / -104.166201)	12/30/22	2.5	0.8	Y
CS-SS-01 @ 2.5' (40.888245 / -104.165152)	02/07/23	2.5	3.2	Y
CS-SS-02 @ 2.5' (40.888230 / -104.165151)	02/07/23	2.5	0.9	Y
CS-FS-01 @ 3' (40.888236 / -104.165152)	02/07/23	3	1.7	Y
CS-SS-03 @ 2.5' (40.888257 / -104.165146)	02/21/23	2.5	1.2	Y
CS-FS-02 @ 3' (40.888249 / -104.165148)	02/21/23	3	1.5	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2  
SOIL ANALYTICAL RESULTS SUMMARY  
COX PC GK 26-99HZ  
VALVE RELEASE  
40.888245 / -104.165144  
SE1/4 SEC.26 T11N R61W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 418179  
REMEDIATION # 26411

Sample Location		SS-01 @ 2'	SS-02 @ 2'	SS-03 @ 2'	SS-04 @ 1'
(Latitude / Longitude)		(40.888249 / -104.165141)	(40.888230 / -104.165137)	(40.888235 / -104.165177)	(40.888259 / -104.165186)
Sample Date		12/30/2022	12/30/2022	12/30/2022	12/30/2022
Sample Depth		2'	2'	2'	1'
PID Reading (ppm-v)		1.1	0.4	0.9	0.9
Regulatory Limits					
Chemical of Concern	Units	COGCC Table 915-1 RSSLs	COGCC Table 915-1 GSSLs	Local Clean-Up Level	
<b>VOCs</b>					
Benzene	mg/kg	1.2	0.0026	--	<0.0020
Toluene	mg/kg	490	0.69	--	<0.0050
Ethylbenzene	mg/kg	5.8	0.78	--	<0.0050
Total Xylenes	mg/kg	58	9.9	--	<0.010
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	<0.0050
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	<0.0050
<b>Total Petroleum Hydrocarbons</b>					
TPH-GRO	mg/kg	500	--	--	<0.50
TPH-DRO	mg/kg	500	--	--	<50
TPH-RRO	mg/kg	500	--	--	<50
<b>Polycyclic Aromatic Hydrocarbons</b>					
1-Methyl-naphthalene	mg/kg	18	0.006	--	<0.00500
2-Methyl-naphthalene	mg/kg	24	0.019	--	<0.00500
Acenaphthene	mg/kg	360	0.55	--	<0.00500
Anthracene	mg/kg	1800	5.8	--	<0.00500
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	<0.00500
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	<0.00500
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	<0.00500
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	<0.00500
Chrysene	mg/kg	110	9	--	0.00712
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	<0.00500
Fluoranthene	mg/kg	240	8.9	--	<0.00500
Fluorene	mg/kg	240	0.54	--	0.00941
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	<0.00500
Naphthalene	mg/kg	2	0.0038	--	<0.0038
Pyrene	mg/kg	180	1.3	--	<0.00500
<b>Soil Suitability (Inorganics)</b>					
Boron	mg/L	2	--	--	5.65
pH	standard unit	6-8.3	--	--	9.22
Sodium Adsorption Ratio (SAR)	--	<6	--	--	5.05
Specific Conductance (EC)	mmhos/cm	<4	--	--	1.62
<b>Metals</b>					
Arsenic	mg/kg	0.68***	0.29***	4.38***	1.99***
Barium	mg/kg	15000	62	--	160*
Cadmium	mg/kg	71	0.38	--	0.260
Copper	mg/kg	3100	46	--	5.03
Lead	mg/kg	400	14	--	4.69
Nickel	mg/kg	1500	26	--	4.19
Selenium	mg/kg	390	0.26	--	0.518*
Silver	mg/kg	390	0.8	--	0.0229
Zinc	mg/kg	23000	370	--	20.5
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	<0.30**
COGCC = Colorado Oil and Gas Conservation Commission					
mg/kg = milligrams per kilogram					
mmhos/cm = millimhos per centimeter					
PID = Photoionization Detector					
ppm-v = parts per million by volume					
mg/L = milligrams per liter					
SAR = Sodium Adsorption Ratio					
Notes:					
Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit.					
Values presented in <b>BOLD</b> exceed COGCC Table 915-1 Regulatory Limits. Values presented with asterisk (*) exceed COGCC Table 915-1 GSSLs.					
**Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg.					
***Local clean-up level (4.38 mg/kg) is 1.25*Background average (3.50 mg/kg)					

TABLE 2  
SOIL ANALYTICAL RESULTS SUMMARY  
COX PC GK 26-99HZ  
VALVE RELEASE  
40.888245 / -104.165144  
SE1/4 SE1/4 SEC.26 T11N R61W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 418179  
REMIEDIATION # 26411

Sample Location		FS-01 @ 2.5'		FS-02 @ 1.5'		Background-01 @ 2.5'		Background-02 @ 2.5'	
(Latitude / Longitude)		(40.888237 / -104.165157)		(40.888252 / -104.165191)		(40.888857 / -104.165034)		(40.888236 / -104.164614)	
Sample Date		12/30/2022		12/30/2022		12/30/2022		12/30/2022	
Sample Depth		2.5'		1.5'		2.5'		2.5'	
PID Reading (ppm-v)		0.6		1.4		0.9		0.3	
Regulatory Limits									
Chemical of Concern	Units	COGCC Table 915-1 RSSLs	COGCC Table 915-1 GSSLs	Local Clean-Up Level					
<b>VOCs</b>									
Benzene	mg/kg	1.2	0.0026	--	<0.0020	<0.0020	NA	NA	NA
Toluene	mg/kg	490	0.69	--	<0.0050	<0.0050	NA	NA	NA
Ethylbenzene	mg/kg	5.8	0.78	--	<0.0050	<0.0050	NA	NA	NA
Total Xylenes	mg/kg	58	9.9	--	<0.010	<0.010	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	<0.0050	<0.0050	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	<0.0050	<0.0050	NA	NA	NA
<b>Total Petroleum Hydrocarbons</b>									
TPH-GRO	mg/kg	500	--	--	<0.50	<0.50	NA	NA	NA
TPH-DRO	mg/kg	500	--	--	<50	<50	NA	NA	NA
TPH-RRO	mg/kg	500	--	--	<50	<50	NA	NA	NA
<b>Polycyclic Aromatics Hydrocarbons</b>									
1-Methyl-naphthalene	mg/kg	18	0.006	--	<0.00500	<0.00500	NA	NA	NA
2-Methyl-naphthalene	mg/kg	24	0.019	--	<0.00500	<0.00500	NA	NA	NA
Acenaphthene	mg/kg	360	0.55	--	<0.00500	<0.00500	NA	NA	NA
Anthracene	mg/kg	1800	5.8	--	<0.00500	<0.00500	NA	NA	NA
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	<0.00500	<0.00500	NA	NA	NA
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	<0.00500	<0.00500	NA	NA	NA
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	<0.00500	<0.00500	NA	NA	NA
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	<0.00500	<0.00500	NA	NA	NA
Chrysene	mg/kg	110	9	--	<0.00500	0.0220	NA	NA	NA
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	<0.00500	<0.00500	NA	NA	NA
Fluoranthene	mg/kg	240	8.9	--	<0.00500	<0.00500	NA	NA	NA
Fluorene	mg/kg	240	0.54	--	<0.00500	0.0196	NA	NA	NA
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	<0.00500	<0.00500	NA	NA	NA
Naphthalene	mg/kg	2	0.0038	--	<0.0038	<0.0038	NA	NA	NA
Pyrene	mg/kg	180	1.3	--	<0.00500	<0.00500	NA	NA	NA
<b>Soil Suitability (Inorganics)</b>									
Boron	mg/L	2	--	--	0.708	0.424	1.21	0.914	
pH	standard unit	6-8.3	--	--	7.96	7.69	7.36	7.78	
Sodium Adsorption Ratio (SAR)	--	<6	--	--	0.170	0.241	0.937	0.471	
Specific Conductance (EC)	mmhos/cm	<4	--	--	0.274	0.385	0.646	0.437	
<b>Metals</b>									
Arsenic	mg/kg	0.68***	0.29***	4.38***	3.41***	1.98***	3.57***	3.09***	
Barium	mg/kg	15000	62	--	257*	179*	269*	309*	
Cadmium	mg/kg	71	0.38	--	0.278	0.179	0.260	0.341	
Copper	mg/kg	3100	46	--	8.28	6.32	8.01	10.3	
Lead	mg/kg	400	14	--	7.32	6.08	6.87	9.11	
Nickel	mg/kg	1500	26	--	7.20	5.36	6.92	9.23	
Selenium	mg/kg	390	0.26	--	0.937*	0.704*	0.732*	0.988*	
Silver	mg/kg	390	0.8	--	0.0346	0.0280	0.0358	0.0556	
Zinc	mg/kg	23000	370	--	34.2	25.6	31.9	41.0	
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	<0.30**	<0.30**	<0.30**	<0.30**	
COGCC = Colorado Oil and Gas Conservation Commission mg/kg = milligrams per kilogram mmhos/cm = millimhos per centimeter PID = Photoionization Detector ppm-v = parts per million by volume mg/L = milligrams per liter SAR = Sodium Adsorption Ratio									
Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit. Values presented in <b>BOLD</b> exceed COGCC Table 915-1 Regulatory Limits. Values presented with asterisk (*) exceed COGCC Table 915-1 GSSLs. **Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg. ***Local clean-up level (4.38 mg/kg) is 1.25*Background average (3.50 mg/kg)									

TABLE 2  
SOIL ANALYTICAL RESULTS SUMMARY  
COX PC GK 26-99HZ  
VALVE RELEASE  
40.888245 / -104.165144  
SE1/4 SEC.26 T11N R61W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 418179  
REMEDIATION # 26411

Sample Location		Background-03 @ 2.5'	Background-04 @ 2.5'	CS-SS-01 @ 2.5'	CS-SS-02 @ 2.5'
(Latitude / Longitude)		(40.888075 / -104.165166)	(40.888313 / -104.166201)	(40.888245 / -104.165152)	(40.888230 / -104.165151)
Sample Date		12/30/2022	12/30/2022	2/7/2023	2/7/2023
Sample Depth		2.5'	2.5'	2.5'	2.5'
PID Reading (ppm-v)		0.2	0.8	3.2	0.9
Regulatory Limits					
Chemical of Concern	Units	COGCC Table 915-1 RSSLs	COGCC Table 915-1 GSSLs	Local Clean-Up Level	
<b>VOCs</b>					
Benzene	mg/kg	1.2	0.0026	--	NA
Toluene	mg/kg	490	0.69	--	NA
Ethylbenzene	mg/kg	5.8	0.78	--	NA
Total Xylenes	mg/kg	58	9.9	--	NA
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	NA
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	NA
<b>Total Petroleum Hydrocarbons</b>					
TPH-GRO	mg/kg	500	--	--	NA
TPH-DRO	mg/kg	500	--	--	NA
TPH-RRO	mg/kg	500	--	--	NA
<b>Polycyclic Aromatics Hydrocarbons</b>					
1-Methyl-naphthalene	mg/kg	18	0.006	--	NA
2-Methyl-naphthalene	mg/kg	24	0.019	--	NA
Acenaphthene	mg/kg	360	0.55	--	NA
Anthracene	mg/kg	1800	5.8	--	NA
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	NA
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	NA
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	NA
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	NA
Chrysene	mg/kg	110	9	--	NA
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	NA
Fluoranthene	mg/kg	240	8.9	--	NA
Fluorene	mg/kg	240	0.54	--	NA
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	NA
Naphthalene	mg/kg	2	0.0038	--	NA
Pyrene	mg/kg	180	1.3	--	NA
<b>Soil Suitability (Inorganics)</b>					
Boron	mg/L	2	--	--	0.380
pH	standard unit	6-8.3	--	--	8.34
Sodium Adsorption Ratio (SAR)	--	<6	--	--	0.311
Specific Conductance (EC)	mmhos/cm	<4	--	--	0.230
<b>Metals</b>					
Arsenic	mg/kg	0.68***	0.29***	4.38***	3.22***
Barium	mg/kg	15000	62	--	196*
Cadmium	mg/kg	71	0.38	--	0.243
Copper	mg/kg	3100	46	--	7.20
Lead	mg/kg	400	14	--	7.43
Nickel	mg/kg	1500	26	--	6.82
Selenium	mg/kg	390	0.26	--	0.829*
Silver	mg/kg	390	0.8	--	0.0389
Zinc	mg/kg	23000	370	--	31.8
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	<0.30**
COGCC = Colorado Oil and Gas Conservation Commission					
mg/kg = milligrams per kilogram					
mmhos/cm = millimhos per centimeter					
PID = Photoionization Detector					
ppm-v = parts per million by volume					
mg/L = milligrams per liter					
SAR = Sodium Adsorption Ratio					
Notes:					
Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit.					
Values presented in <b>BOLD</b> exceed COGCC Table 915-1 Regulatory Limits. Values presented with asterisk (*) exceed COGCC Table 915-1 GSSLs.					
**Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg.					
***Local clean-up level (4.38 mg/kg) is 1.25*Background average (3.50 mg/kg)					

TABLE 2  
SOIL ANALYTICAL RESULTS SUMMARY  
COX PC GK 26-99HZ  
VALVE RELEASE  
40.888245 / -104.165144  
SE1/4 SE1/4 SEC.26 T11N R61W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 418179  
REMIEDIATION # 26411

Sample Location	CS-FS-01 @ 3'		CS-SS-03 @ 2.5'		CS-FS-02 @ 3'	
(Latitude / Longitude)	(40.888236 / -104.165152)		(40.888257 / -104.165146)		(40.888249 / -104.165148)	
Sample Date	2/7/2023		2/21/2023		2/21/2023	
Sample Depth	3'		2.5'		3'	
PID Reading (ppm-v)	1.7		1.2		1.5	
Regulatory Limits						
Chemical of Concern	Units	COGCC Table 915-1 RSSLs	COGCC Table 915-1 GSSLs			
<b>VOCs</b>						
Benzene	mg/kg	1.2	0.0026	<0.0020	<0.0020	<0.0020
Toluene	mg/kg	490	0.69	<0.0050	<0.0050	<0.0050
Ethylbenzene	mg/kg	5.8	0.78	<0.0050	<0.0050	<0.0050
Total Xylenes	mg/kg	58	9.9	<0.010	<0.010	<0.010
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	<0.0050	<0.0050	<0.0050
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	<0.0050	<0.0050	<0.0050
<b>Total Petroleum Hydrocarbons</b>						
TPH-GRO	mg/kg	500	--	0.12	0.0093	0.0098
TPH-DRO	mg/kg	500	--	16	19	12
TPH-RRO	mg/kg	500	--	<50	<50	4.6
<b>Polycyclic Aromatics Hydrocarbons</b>						
1-Methyl-naphthalene	mg/kg	18	0.006	<0.00500	<0.00500	<0.00500
2-Methyl-naphthalene	mg/kg	24	0.019	<0.00500	<0.00500	<0.00500
Acenaphthene	mg/kg	360	0.55	<0.00500	<0.00500	<0.00500
Anthracene	mg/kg	1800	5.8	<0.00500	0.00314	<0.00500
Benzo(a)-anthracene	mg/kg	1.1	0.011	<0.00500	<0.00500	<0.00500
Benzo(a)-pyrene	mg/kg	0.11	0.24	<0.00500	<0.00500	<0.00500
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	<0.00500	<0.00500	<0.00500
Benzo(k)-fluoranthene	mg/kg	11	2.9	<0.00500	<0.00500	<0.00500
Chrysene	mg/kg	110	9	<0.00500	<0.00500	<0.00500
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	<0.00500	<0.00500	<0.00500
Fluoranthene	mg/kg	240	8.9	<0.00500	<0.00500	<0.00500
Fluorene	mg/kg	240	0.54	<0.00500	<0.00500	<0.00500
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	<0.00500	<0.00500	<0.00500
Naphthalene	mg/kg	2	0.0038	<0.0038	<0.0038	<0.0038
Pyrene	mg/kg	180	1.3	<0.00500	<0.00500	<0.00500
<b>Soil Suitability (Inorganics)</b>						
Boron	mg/L	2	--	0.170	0.451	0.445
pH	standard unit	6-8.3	--	7.68	<b>8.83</b>	7.90
Sodium Adsorption Ratio (SAR)	--	<6	--	4.60	1.53	<b>17.2</b>
Specific Conductance (EC)	mmhos/cm	<4	--	1.37	0.629	3.60
COGCC = Colorado Oil and Gas Conservation Commission		VOCs - Volatile Organic Compounds		NA - Not Analyzed		
mg/kg = milligrams per kilogram		RSSLs = Residential Soil Screening Levels				
mmhos/cm = millimhos per centimeter		GSSLs = Protection of Groundwater Soil Screening Levels				
PID = Photoionization Detector		TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics				
ppm-v = parts per million by volume		TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics				
mg/L = milligrams per liter		TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics				
SAR = Sodium Adsorption Ratio						
Notes:						
Values presented in <b>BOLD</b> exceed COGCC Table 915-1 Regulatory Limits. Values presented with asterisk (*) exceed COGCC Table 915-1 GSSLs.						



## **ATTACHMENT A**

### **Photo Log**

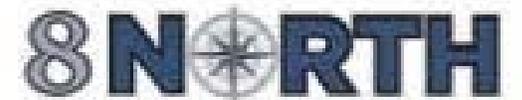
Cox PC GK 26-99HZ

Location ID 418179

Remediation # 26411

Release Assessment

December 2022 – February 2023

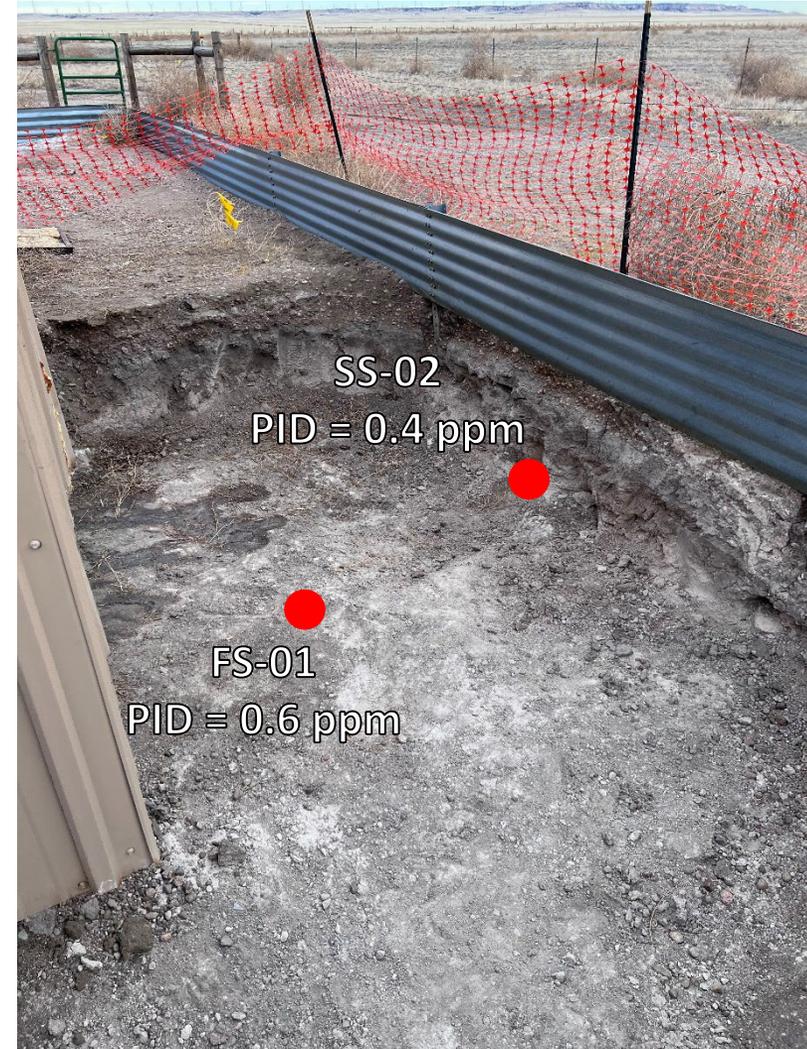


# Initial Assessment – 12/30/22



Looking north

No petroleum hydrocarbon staining or odor observed



Looking southeast

No petroleum hydrocarbon staining or odor observed

# Initial Assessment – 12/30/22



Looking west

No petroleum hydrocarbon staining or odor observed



Looking north

No petroleum hydrocarbon staining or odor observed

# Initial Assessment – 12/30/22



Looking south

No petroleum hydrocarbon staining or odor observed



Looking west

No petroleum hydrocarbon staining or odor observed

# Initial Assessment – 12/30/22



Looking north

No petroleum hydrocarbon staining or odor observed



Looking east

No petroleum hydrocarbon staining or odor observed

# Confirmation Sampling – 02/07/23



Looking north

No petroleum hydrocarbon staining or odor observed



Looking south

No petroleum hydrocarbon staining or odor observed

# Confirmation Sampling – 02/07/23



Looking west

No petroleum hydrocarbon staining or odor observed

## Confirmation Sampling – 02/21/23



CS-SS-03  
PID = 1.2 ppm

Looking west

No petroleum hydrocarbon staining or odor observed



CS-FS-02  
PID = 1.5 ppm

Looking north

No petroleum hydrocarbon staining or odor observed



## **ATTACHMENT B**

### **Laboratory Analytical Reports**

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

January 05, 2023

Martin Eckert III

Civitas Resources

650 Southgate Drive

Windsor, CO 80550

RE: Cox PC GK26-99HZ

Work Order # 2212576

Enclosed are the results of analyses for samples received by Summit Scientific on 12/30/22 18:02. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Scott Sheely For Paul Shrewsbury

President



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-01@2'	2212576-01	Soil	12/30/22 13:05	12/30/22 18:02
SS-02@2'	2212576-02	Soil	12/30/22 13:10	12/30/22 18:02
SS-03@2'	2212576-03	Soil	12/30/22 13:15	12/30/22 18:02
SS-04@1'	2212576-04	Soil	12/30/22 13:20	12/30/22 18:02
FS-01@2.5'	2212576-05	Soil	12/30/22 13:25	12/30/22 18:02
FS-02@1.5'	2212576-06	Soil	12/30/22 13:30	12/30/22 18:02

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

2212576

S<sub>2</sub>

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

Page 1 of 1

Client: Eagle Environmental Consulting / Civitas

Project Manager: Martin Eckert III / invoice Cory

Address: 8000 W 44th Ave

E-Mail: mec3@eagle-enviro.com

City/State/Zip: Wheat Ridge, CO 80033

Phone: 303-433-0479

Project Name: Cox PC GK 26-99HZ

Sampler Name: IM

Project Number:       

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	As, BTEX, TMS	-8760D	Perfluoro-8010	PAHs-8720 SEM	EC-9050A	SAR-20B		PH-9045D
1	SS-01 @ 2'	12/30/22	1305	2			X			X				X	X	X	X	X		EL/SAR/pH =
2	SS-02 @ 2'		1310																	Saturated push prep
3	SS-03 @ 2'		1315																	
4	SS-04 @ 1'		1320																	Ⓜ MDLs needed
5	FS-01 @ 2.5'		1325																	
6	FS-02 @ 1.5'		1330																	
7																				
8																				
9																				
10																				

Relinquished by: John Mahan Date/Time: 12/30/22 1801

Received by: Sheree Buehler Date/Time: 12/30/22 18:02

Turn Around Time (Check)  
Same Day      72 hours       
24 hours      Standard ✓  
48 hours     

Notes:

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Sample Integrity:  
Samples Intact: Yes No

Temperature Upon Receipt: 0  
IR gun correction: \_\_\_\_\_

Corrected Temperature \_\_\_\_\_  
HNO3 lot # \_\_\_\_\_  
IR gun #: \_\_\_\_\_

S<sub>2</sub>

2212576

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

Sample Receipt Checklist

*Civitas*

Client: Eagle Environmental Consulting Client Project ID: Cox PC GK 20-99H2

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

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

Temp (°C)

Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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"/>	<i>ice</i>
If custody seals are present, are they intact? <sup>(1)</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation <b>(excluding cooling)</b> ? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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):

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

*SB*

Custodian Printed Name

*12/30/22 18:02*

Date/Time



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

**SS-01@2'**  
**2212576-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **12/30/22 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGA0007	01/03/23	01/03/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **12/30/22 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		103 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		104 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **12/30/22 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BGA0008	01/03/23	01/03/23	EPA 8015M	
C28-C36 (ORO)	ND	50	4.3	"	"	"	"	"	"	

Date Sampled: **12/30/22 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		124 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

**SS-01@2'**  
**2212576-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **12/30/22 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGA0006	01/03/23	01/04/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	"
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	"
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	"
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	"

Date Sampled: **12/30/22 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		59.4 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		69.9 %		40-150		"	"	"	"	"

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

Date Sampled: **12/30/22 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>5.65</b>	0.0100	0.00690	mg/L	1	BGA0013	01/03/23	01/04/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **12/30/22 13:05**

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

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

**SS-01@2'**  
**2212576-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.99	0.237	0.200	mg/kg dry	1	BGA0019	01/03/23	01/04/23	EPA 6020B	
Barium	160	0.474	0.375	"	"	"	"	"	"	
Cadmium	0.144	0.237	0.00853	"	"	"	"	"	"	
Copper	5.03	0.474	0.0248	"	"	"	"	"	"	
Lead	4.69	0.237	0.0651	"	"	"	"	"	"	
Nickel	4.19	0.474	0.0723	"	"	"	"	"	"	
Selenium	0.518	0.308	0.207	"	"	"	"	"	"	
Silver	0.0229	0.0237	0.00316	"	"	"	"	"	"	
Zinc	20.5	0.474	0.315	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 12/30/22 13:05

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.0040	mg/kg dry	1	BFL0775	12/31/22	01/01/23	EPA 7196A	

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

Date Sampled: 12/30/22 13:05

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	960	0.0593		mg/L dry	1	BGA0018	01/03/23	01/04/23	EPA 6020B	
Magnesium	31.6	0.0593		"	"	"	"	"	"	
Sodium	584	0.0593		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 12/30/22 13:05

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.05	0.00100		units	1	BGA0079	01/05/23	01/05/23	Calculation	

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

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

**SS-01@2'**  
**2212576-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **12/30/22 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	<b>84.4</b>			%	1	BGA0014	01/03/23	01/03/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **12/30/22 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	<b>1.62</b>	0.0100	0.00100	mmhos/cm	1	BGA0039	01/04/23	01/04/23	EPA 120.1	

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

Date Sampled: **12/30/22 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	<b>9.22</b>			pH Units	1	BGA0040	01/04/23	01/04/23	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

**SS-02@2'**  
**2212576-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **12/30/22 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGA0007	01/03/23	01/03/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	"
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	"
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	"
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	"
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	"

Date Sampled: **12/30/22 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		110 %		50-150		"	"	"	"	"
Surrogate: Toluene-d8		104 %		50-150		"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		112 %		50-150		"	"	"	"	"

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **12/30/22 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>C10-C28 (DRO)</b>	<b>150</b>	50	4.3	mg/kg	1	BGA0008	01/03/23	01/03/23	EPA 8015M	
C28-C36 (ORO)	ND	50	4.3	"	"	"	"	"	"	

Date Sampled: **12/30/22 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		125 %		30-150		"	"	"	"	"

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

**SS-02@2'**  
**2212576-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **12/30/22 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGA0006	01/03/23	01/04/23	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	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.00712</b>	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.00941</b>	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.00788</b>	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **12/30/22 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		49.7 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		56.7 %		40-150		"	"	"	"	

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

Date Sampled: **12/30/22 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.969</b>	0.0100	0.00690	mg/L	1	BGA0013	01/03/23	01/04/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **12/30/22 13:10**

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

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

**SS-02@2'**  
**2212576-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.22	0.230	0.194	mg/kg dry	1	BGA0019	01/03/23	01/04/23	EPA 6020B	
Barium	258	0.461	0.364	"	"	"	"	"	"	
Cadmium	0.260	0.230	0.00829	"	"	"	"	"	"	
Copper	8.13	0.461	0.0241	"	"	"	"	"	"	
Lead	8.21	0.230	0.0633	"	"	"	"	"	"	
Nickel	7.36	0.461	0.0702	"	"	"	"	"	"	
Selenium	0.971	0.299	0.202	"	"	"	"	"	"	
Silver	0.0351	0.0230	0.00307	"	"	"	"	"	"	
Zinc	40.0	0.461	0.306	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 12/30/22 13:10

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.0040	mg/kg dry	1	BFL0775	12/31/22	01/01/23	EPA 7196A	

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

Date Sampled: 12/30/22 13:10

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	73.4	0.0576		mg/L dry	1	BGA0018	01/03/23	01/04/23	EPA 6020B	
Magnesium	10.1	0.0576		"	"	"	"	"	"	
Sodium	13.0	0.0576		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 12/30/22 13:10

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.377	0.00100		units	1	BGA0079	01/05/23	01/05/23	Calculation	

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

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

**SS-02@2'**  
**2212576-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **12/30/22 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	86.8			%	1	BGA0014	01/03/23	01/03/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **12/30/22 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.473	0.0100	0.00100	mmhos/cm	1	BGA0039	01/04/23	01/04/23	EPA 120.1	

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

Date Sampled: **12/30/22 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.61			pH Units	1	BGA0040	01/04/23	01/04/23	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

**SS-03@2'**  
**2212576-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **12/30/22 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGA0007	01/03/23	01/03/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **12/30/22 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		108 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		103 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **12/30/22 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BGA0008	01/03/23	01/03/23	EPA 8015M	
C28-C36 (ORO)	ND	50	4.3	"	"	"	"	"	"	

Date Sampled: **12/30/22 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		122 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

**SS-03@2'**  
**2212576-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **12/30/22 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGA0006	01/03/23	01/04/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	"
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	"
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	"
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	"

Date Sampled: **12/30/22 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		48.0 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		54.3 %		40-150		"	"	"	"	"

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

Date Sampled: **12/30/22 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>1.18</b>	0.0100	0.00690	mg/L	1	BGA0013	01/03/23	01/04/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **12/30/22 13:15**

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

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

**SS-03@2'**  
**2212576-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.45	0.239	0.201	mg/kg dry	1	BGA0019	01/03/23	01/04/23	EPA 6020B	
Barium	218	0.478	0.378	"	"	"	"	"	"	
Cadmium	0.266	0.239	0.00861	"	"	"	"	"	"	
Copper	7.46	0.478	0.0250	"	"	"	"	"	"	
Lead	8.03	0.239	0.0657	"	"	"	"	"	"	
Nickel	6.28	0.478	0.0729	"	"	"	"	"	"	
Selenium	0.768	0.311	0.209	"	"	"	"	"	"	
Silver	0.0393	0.0239	0.00319	"	"	"	"	"	"	
Zinc	28.9	0.478	0.318	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 12/30/22 13:15

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.0040	mg/kg dry	1	BFL0775	12/31/22	01/01/23	EPA 7196A	

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

Date Sampled: 12/30/22 13:15

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	52.6	0.0598		mg/L dry	1	BGA0018	01/03/23	01/04/23	EPA 6020B	
Magnesium	8.44	0.0598		"	"	"	"	"	"	
Sodium	7.20	0.0598		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 12/30/22 13:15

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.243	0.00100		units	1	BGA0079	01/05/23	01/05/23	Calculation	

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

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

**SS-03@2'**  
**2212576-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **12/30/22 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	83.6			%	1	BGA0014	01/03/23	01/03/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **12/30/22 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.404	0.0100	0.00100	mmhos/cm	1	BGA0039	01/04/23	01/04/23	EPA 120.1	

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

Date Sampled: **12/30/22 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.73			pH Units	1	BGA0040	01/04/23	01/04/23	EPA 9045D	

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

**SS-04@1'**  
**2212576-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **12/30/22 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGA0007	01/03/23	01/03/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	"
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	"
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	"
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	"
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	"

Date Sampled: **12/30/22 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		112 %		50-150		"	"	"	"	"
Surrogate: Toluene-d8		106 %		50-150		"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		111 %		50-150		"	"	"	"	"

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **12/30/22 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BGA0008	01/03/23	01/04/23	EPA 8015M	
C28-C36 (ORO)	ND	50	4.3	"	"	"	"	"	"	

Date Sampled: **12/30/22 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		127 %		30-150		"	"	"	"	"

**PAH by EPA Method 8270D SIM**

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

**SS-04@1'**  
**2212576-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **12/30/22 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGA0006	01/03/23	01/04/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	"
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	"
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	"
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	"

Date Sampled: **12/30/22 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		65.0 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		73.6 %		40-150		"	"	"	"	"

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

Date Sampled: **12/30/22 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.265</b>	0.0100	0.00690	mg/L	1	BGA0013	01/03/23	01/04/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **12/30/22 13:20**

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

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

**SS-04@1'**  
**2212576-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.50	0.225	0.189	mg/kg dry	1	BGA0019	01/03/23	01/04/23	EPA 6020B
Barium	86.7	0.449	0.355	"	"	"	"	"	"
Cadmium	0.103	0.225	0.00808	"	"	"	"	"	"
Copper	4.44	0.449	0.0235	"	"	"	"	"	"
Lead	3.60	0.225	0.0617	"	"	"	"	"	"
Nickel	3.38	0.449	0.0685	"	"	"	"	"	"
Selenium	0.502	0.292	0.196	"	"	"	"	"	"
Silver	0.0164	0.0225	0.00300	"	"	"	"	"	"
Zinc	16.3	0.449	0.299	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 12/30/22 13:20

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.0040	mg/kg dry	1	BFL0775	12/31/22	01/01/23	EPA 7196A	

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

Date Sampled: 12/30/22 13:20

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	302	0.0561		mg/L dry	1	BGA0018	01/03/23	01/04/23	EPA 6020B	
Magnesium	14.4	0.0561		"	"	"	"	"	"	
Sodium	1.66	0.0561		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 12/30/22 13:20

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0253	0.00100		units	1	BGA0079	01/05/23	01/05/23	Calculation	

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

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

**SS-04@1'**  
**2212576-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **12/30/22 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	89.1			%	1	BGA0014	01/03/23	01/03/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **12/30/22 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.151	0.0100	0.00100	mmhos/cm	1	BGA0039	01/04/23	01/04/23	EPA 120.1	

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

Date Sampled: **12/30/22 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.02			pH Units	1	BGA0040	01/04/23	01/04/23	EPA 9045D	

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

**FS-01@2.5'**  
**2212576-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **12/30/22 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGA0007	01/03/23	01/03/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	"
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	"
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	"
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	"
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	"

Date Sampled: **12/30/22 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		107 %		50-150		"	"	"	"	"
Surrogate: Toluene-d8		105 %		50-150		"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		112 %		50-150		"	"	"	"	"

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **12/30/22 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BGA0008	01/03/23	01/04/23	EPA 8015M	
C28-C36 (ORO)	ND	50	4.3	"	"	"	"	"	"	"

Date Sampled: **12/30/22 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		124 %		30-150		"	"	"	"	"

**PAH by EPA Method 8270D SIM**

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

**FS-01@2.5'**  
**2212576-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **12/30/22 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGA0006	01/03/23	01/04/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	"
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	"
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	"
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	"

Date Sampled: **12/30/22 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		62.5 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		77.1 %		40-150		"	"	"	"	"

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

Date Sampled: **12/30/22 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.708</b>	0.0100	0.00690	mg/L	1	BGA0013	01/03/23	01/04/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **12/30/22 13:25**

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

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650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

**FS-01@2.5'**  
**2212576-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.41	0.254	0.214	mg/kg dry	1	BGA0019	01/03/23	01/04/23	EPA 6020B	
Barium	257	0.508	0.402	"	"	"	"	"	"	
Cadmium	0.278	0.254	0.00915	"	"	"	"	"	"	
Copper	8.28	0.508	0.0266	"	"	"	"	"	"	
Lead	7.32	0.254	0.0699	"	"	"	"	"	"	
Nickel	7.20	0.508	0.0775	"	"	"	"	"	"	
Selenium	0.937	0.331	0.222	"	"	"	"	"	"	
Silver	0.0346	0.0254	0.00339	"	"	"	"	"	"	
Zinc	34.2	0.508	0.338	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 12/30/22 13:25

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.0040	mg/kg dry	1	BFL0775	12/31/22	01/01/23	EPA 7196A	

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

Date Sampled: 12/30/22 13:25

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	619	0.0636		mg/L dry	1	BGA0018	01/03/23	01/04/23	EPA 6020B	
Magnesium	28.2	0.0636		"	"	"	"	"	"	
Sodium	15.9	0.0636		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 12/30/22 13:25

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.170	0.00100		units	1	BGA0079	01/05/23	01/05/23	Calculation	

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

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

**FS-01@2.5'**  
**2212576-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **12/30/22 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	78.7			%	1	BGA0014	01/03/23	01/03/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **12/30/22 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.274	0.0100	0.00100	mmhos/cm	1	BGA0039	01/04/23	01/04/23	EPA 120.1	

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

Date Sampled: **12/30/22 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.96			pH Units	1	BGA0040	01/04/23	01/04/23	EPA 9045D	

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650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

**FS-02@1.5'**  
**2212576-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **12/30/22 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGA0007	01/03/23	01/03/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **12/30/22 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		110 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		106 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **12/30/22 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BGA0008	01/03/23	01/04/23	EPA 8015M	
C28-C36 (ORO)	ND	50	4.3	"	"	"	"	"	"	

Date Sampled: **12/30/22 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		132 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

**FS-02@1.5'**  
**2212576-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **12/30/22 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGA0006	01/03/23	01/04/23	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	"	"	"	"	"	"	"
<b>Chrysene</b>	<b>0.0220</b>	0.00500	0.000237	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	"
<b>Fluorene</b>	<b>0.0196</b>	0.00500	0.000477	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	"
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	"

Date Sampled: **12/30/22 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		71.7 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		81.1 %		40-150		"	"	"	"	"

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

Date Sampled: **12/30/22 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.424</b>	0.0100	0.00690	mg/L	1	BGA0013	01/03/23	01/04/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **12/30/22 13:30**

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

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Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

**FS-02@1.5'**  
**2212576-06 (Soil)**

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**Total Metals by EPA 6020B**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.98	0.258	0.217	mg/kg dry	1	BGA0019	01/03/23	01/04/23	EPA 6020B	
Barium	179	0.516	0.407	"	"	"	"	"	"	
Cadmium	0.179	0.258	0.00928	"	"	"	"	"	"	
Copper	6.32	0.516	0.0269	"	"	"	"	"	"	
Lead	6.08	0.258	0.0709	"	"	"	"	"	"	
Nickel	5.36	0.516	0.0786	"	"	"	"	"	"	
Selenium	0.704	0.335	0.226	"	"	"	"	"	"	
Silver	0.0280	0.0258	0.00344	"	"	"	"	"	"	
Zinc	25.6	0.516	0.343	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 12/30/22 13:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.0040	mg/kg dry	1	BFL0775	12/31/22	01/01/23	EPA 7196A	

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

Date Sampled: 12/30/22 13:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	71.8	0.0645		mg/L dry	1	BGA0018	01/03/23	01/04/23	EPA 6020B	
Magnesium	12.7	0.0645		"	"	"	"	"	"	
Sodium	8.43	0.0645		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 12/30/22 13:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.241	0.00100		units	1	BGA0079	01/05/23	01/05/23	Calculation	

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

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Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

**FS-02@1.5'**  
**2212576-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **12/30/22 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	77.6			%	1	BGA0014	01/03/23	01/03/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **12/30/22 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.385	0.0100	0.00100	mmhos/cm	1	BGA0039	01/04/23	01/04/23	EPA 120.1	

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

Date Sampled: **12/30/22 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.69			pH Units	1	BGA0040	01/04/23	01/04/23	EPA 9045D	

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

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

#### Batch BGA0007 - EPA 5030 Soil MS

##### Blank (BGA0007-BLK1)

Prepared & Analyzed: 01/03/23

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	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0418</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>		<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0413</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>		<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0441</i>		<i>"</i>	<i>0.0400</i>		<i>110</i>		<i>50-150</i>			

##### LCS (BGA0007-BS1)

Prepared & Analyzed: 01/03/23

Benzene	0.138	0.0020	mg/kg	0.125		110		70-130			
Toluene	0.139	0.0050	"	0.125		112		70-130			
Ethylbenzene	0.128	0.0050	"	0.125		102		70-130			
m,p-Xylene	0.245	0.010	"	0.250		98.0		70-130			
o-Xylene	0.119	0.0050	"	0.125		95.2		70-130			
1,2,4-Trimethylbenzene	0.131	0.0050	"	0.125		104		70-130			
1,3,5-Trimethylbenzene	0.130	0.0050	"	0.125		104		70-130			
Naphthalene	0.105	0.0038	"	0.125		84.3		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0435</i>		<i>"</i>	<i>0.0400</i>		<i>109</i>		<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0421</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>		<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0423</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>		<i>50-150</i>			

##### Matrix Spike (BGA0007-MS1)

Source: 2212560-01

Prepared & Analyzed: 01/03/23

Benzene	0.136	0.0020	mg/kg	0.125	ND	109		70-130			
Toluene	0.137	0.0050	"	0.125	ND	110		70-130			
Ethylbenzene	0.125	0.0050	"	0.125	ND	99.9		70-130			
m,p-Xylene	0.241	0.010	"	0.250	ND	96.5		70-130			
o-Xylene	0.117	0.0050	"	0.125	ND	94.0		70-130			
1,2,4-Trimethylbenzene	0.128	0.0050	"	0.125	ND	102		70-130			
1,3,5-Trimethylbenzene	0.128	0.0050	"	0.125	ND	102		70-130			
Naphthalene	0.109	0.0038	"	0.125	ND	87.5		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0431</i>		<i>"</i>	<i>0.0400</i>		<i>108</i>		<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0426</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>		<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0420</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>		<i>50-150</i>			

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

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

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

**Batch BGA0007 - EPA 5030 Soil MS**

Matrix Spike Dup (BGA0007-MSD1)	Source: 2212560-01			Prepared & Analyzed: 01/03/23						
Benzene	0.137	0.0020	mg/kg	0.125	ND	110	70-130	1.14	30	
Toluene	0.142	0.0050	"	0.125	ND	113	70-130	2.99	30	
Ethylbenzene	0.129	0.0050	"	0.125	ND	103	70-130	3.31	30	
m,p-Xylene	0.249	0.010	"	0.250	ND	99.7	70-130	3.19	30	
o-Xylene	0.121	0.0050	"	0.125	ND	96.8	70-130	2.92	30	
1,2,4-Trimethylbenzene	0.133	0.0050	"	0.125	ND	106	70-130	3.80	30	
1,3,5-Trimethylbenzene	0.132	0.0050	"	0.125	ND	106	70-130	3.54	30	
Naphthalene	0.118	0.0038	"	0.125	ND	94.6	70-130	7.83	30	
Surrogate: 1,2-Dichloroethane-d4	0.0438		"	0.0400		110	50-150			
Surrogate: Toluene-d8	0.0429		"	0.0400		107	50-150			
Surrogate: 4-Bromofluorobenzene	0.0423		"	0.0400		106	50-150			

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

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

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

**Batch BGA0008 - EPA 3550A**

**Blank (BGA0008-BLK1)**

Prepared & Analyzed: 01/03/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	13.5		"	12.5	108	30-150					

**LCS (BGA0008-BS1)**

Prepared & Analyzed: 01/03/23

C10-C28 (DRO)	432	50	mg/kg	500	86.4	70-130					
Surrogate: <i>o</i> -Terphenyl	11.2		"	12.5	89.7	30-150					

**Matrix Spike (BGA0008-MS1)**

Source: 2212560-01

Prepared & Analyzed: 01/03/23

C10-C28 (DRO)	398	50	mg/kg	500	13.0	76.9	70-130				
Surrogate: <i>o</i> -Terphenyl	6.14		"	12.5	49.1	30-150					

**Matrix Spike Dup (BGA0008-MSD1)**

Source: 2212560-01

Prepared & Analyzed: 01/03/23

C10-C28 (DRO)	409	50	mg/kg	500	13.0	79.3	70-130	2.91	20		
Surrogate: <i>o</i> -Terphenyl	5.89		"	12.5	47.1	30-150					

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Project: Cox PC GK26-99HZ

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

Reported:  
01/05/23 14:03

PAH by EPA Method 8270D SIM - Quality Control

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

Batch BGA0006 - EPA 5030 Soil MS

Blank (BGA0006-BLK1)

Prepared & Analyzed: 01/03/23

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	0.0265		"	0.0333		79.5		40-150		
Surrogate: Fluoranthene-d10	0.0328		"	0.0333		98.3		40-150		

LCS (BGA0006-BS1)

Prepared & Analyzed: 01/03/23

Acenaphthene	0.0307	0.00500	mg/kg	0.0333		92.0		31-137		
Anthracene	0.0299	0.00500	"	0.0333		89.6		30-120		
Benzo (a) anthracene	0.0297	0.00500	"	0.0333		89.2		30-120		
Benzo (a) pyrene	0.0294	0.00500	"	0.0333		88.3		30-120		
Benzo (b) fluoranthene	0.0296	0.00500	"	0.0333		88.8		30-120		
Benzo (k) fluoranthene	0.0301	0.00500	"	0.0333		90.3		30-120		
Chrysene	0.0316	0.00500	"	0.0333		94.7		30-120		
Dibenz (a,h) anthracene	0.0274	0.00500	"	0.0333		82.2		30-120		
Fluoranthene	0.0254	0.00500	"	0.0333		76.2		30-120		
Fluorene	0.0302	0.00500	"	0.0333		90.6		30-120		
Indeno (1,2,3-cd) pyrene	0.0307	0.00500	"	0.0333		92.0		30-120		
Pyrene	0.0209	0.00500	"	0.0333		62.8		35-142		
1-Methylnaphthalene	0.0292	0.00500	"	0.0333		87.6		35-142		
2-Methylnaphthalene	0.0273	0.00500	"	0.0333		82.0		35-142		
Surrogate: 2-Methylnaphthalene-d10	0.0292		"	0.0333		87.6		40-150		
Surrogate: Fluoranthene-d10	0.0311		"	0.0333		93.2		40-150		

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Project: Cox PC GK26-99HZ

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

Reported:  
01/05/23 14:03

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

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

**Batch BGA0006 - EPA 5030 Soil MS**

<b>Matrix Spike (BGA0006-MS1)</b>	<b>Source: 2212550-01</b>			<b>Prepared &amp; Analyzed: 01/03/23</b>							
Acenaphthene	0.0215	0.00500	mg/kg	0.0333	ND	64.5	31-137				
Anthracene	0.0211	0.00500	"	0.0333	ND	63.2	30-120				
Benzo (a) anthracene	0.0218	0.00500	"	0.0333	ND	65.5	30-120				
Benzo (a) pyrene	0.0211	0.00500	"	0.0333	ND	63.4	30-120				
Benzo (b) fluoranthene	0.0215	0.00500	"	0.0333	ND	64.5	30-120				
Benzo (k) fluoranthene	0.0220	0.00500	"	0.0333	ND	66.1	30-120				
Chrysene	0.0225	0.00500	"	0.0333	ND	67.5	30-120				
Dibenz (a,h) anthracene	0.0204	0.00500	"	0.0333	ND	61.3	30-120				
Fluoranthene	0.0171	0.00500	"	0.0333	ND	51.3	30-120				
Fluorene	0.0214	0.00500	"	0.0333	ND	64.3	30-120				
Indeno (1,2,3-cd) pyrene	0.0219	0.00500	"	0.0333	ND	65.6	30-120				
Pyrene	0.0145	0.00500	"	0.0333	ND	43.4	35-142				
1-Methylnaphthalene	0.0241	0.00500	"	0.0333	ND	72.3	15-130				
2-Methylnaphthalene	0.0235	0.00500	"	0.0333	ND	70.6	15-130				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0230</i>		<i>"</i>	<i>0.0333</i>		<i>69.0</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0221</i>		<i>"</i>	<i>0.0333</i>		<i>66.2</i>	<i>40-150</i>				

<b>Matrix Spike Dup (BGA0006-MSD1)</b>	<b>Source: 2212550-01</b>			<b>Prepared &amp; Analyzed: 01/03/23</b>							
Acenaphthene	0.0279	0.00500	mg/kg	0.0333	ND	83.7	31-137	25.9	30		
Anthracene	0.0274	0.00500	"	0.0333	ND	82.1	30-120	26.0	30		
Benzo (a) anthracene	0.0284	0.00500	"	0.0333	ND	85.3	30-120	26.2	30		
Benzo (a) pyrene	0.0274	0.00500	"	0.0333	ND	82.1	30-120	25.7	30		
Benzo (b) fluoranthene	0.0276	0.00500	"	0.0333	ND	82.7	30-120	24.8	30		
Benzo (k) fluoranthene	0.0282	0.00500	"	0.0333	ND	84.6	30-120	24.5	30		
Chrysene	0.0288	0.00500	"	0.0333	ND	86.3	30-120	24.4	30		
Dibenz (a,h) anthracene	0.0265	0.00500	"	0.0333	ND	79.6	30-120	26.0	30		
Fluoranthene	0.0229	0.00500	"	0.0333	ND	68.8	30-120	29.1	30		
Fluorene	0.0274	0.00500	"	0.0333	ND	82.3	30-120	24.5	30		
Indeno (1,2,3-cd) pyrene	0.0283	0.00500	"	0.0333	ND	84.9	30-120	25.6	30		
Pyrene	0.0164	0.00500	"	0.0333	ND	49.3	35-142	12.8	30		
1-Methylnaphthalene	0.0302	0.00500	"	0.0333	ND	90.6	15-130	22.4	50		
2-Methylnaphthalene	0.0336	0.00500	"	0.0333	ND	101	15-130	35.1	50		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0286</i>		<i>"</i>	<i>0.0333</i>		<i>85.9</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0279</i>		<i>"</i>	<i>0.0333</i>		<i>83.8</i>	<i>40-150</i>				

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

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

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

**Batch BGA0013 - EPA 3050B**

**Blank (BGA0013-BLK1)**

Prepared: 01/03/23 Analyzed: 01/04/23

Boron ND 0.0100 mg/L

**LCS (BGA0013-BS1)**

Prepared: 01/03/23 Analyzed: 01/04/23

Boron 5.92 0.0100 mg/L 5.00 118 80-120

**Duplicate (BGA0013-DUP1)**

**Source: 2212572-01**

Prepared: 01/03/23 Analyzed: 01/04/23

Boron 0.181 0.0100 mg/L 0.154 16.1 20

**Matrix Spike (BGA0013-MS1)**

**Source: 2212572-01**

Prepared: 01/03/23 Analyzed: 01/04/23

Boron 5.09 0.0100 mg/L 5.00 0.154 98.7 75-125

**Matrix Spike Dup (BGA0013-MSD1)**

**Source: 2212572-01**

Prepared: 01/03/23 Analyzed: 01/04/23

Boron 5.09 0.0100 mg/L 5.00 0.154 98.7 75-125 0.0155 25

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BGA0019 - EPA 3050B**

**Blank (BGA0019-BLK1)**

Prepared: 01/03/23 Analyzed: 01/04/23

Arsenic	ND	0.200	mg/kg wet						
Barium	ND	0.400	"						
Cadmium	ND	0.200	"						
Copper	0.0414	0.400	"						
Lead	ND	0.200	"						
Nickel	ND	0.400	"						
Selenium	ND	0.260	"						
Silver	ND	0.0200	"						
Zinc	ND	0.400	"						

**LCS (BGA0019-BS1)**

Prepared: 01/03/23 Analyzed: 01/04/23

Arsenic	44.2	0.200	mg/kg wet	40.0		111	80-120
Barium	43.3	0.400	"	40.0		108	80-120
Cadmium	2.12	0.200	"	2.00		106	80-120
Copper	41.7	0.400	"	40.0		104	80-120
Lead	20.9	0.200	"	20.0		104	80-120
Nickel	41.8	0.400	"	40.0		105	80-120
Selenium	4.29	0.260	"	4.00		107	80-120
Silver	2.09	0.0200	"	2.00		104	80-120
Zinc	44.8	0.400	"	40.0		112	80-120

**Duplicate (BGA0019-DUP1)**

Source: 2212575-01

Prepared: 01/03/23 Analyzed: 01/04/23

Arsenic	3.57	0.228	mg/kg dry	3.57		0.0148	20
Barium	271	0.457	"	269		0.723	20
Cadmium	0.259	0.228	"	0.260		0.0426	20
Copper	8.11	0.457	"	8.01		1.24	20
Lead	6.90	0.228	"	6.87		0.448	20
Nickel	7.01	0.457	"	6.92		1.39	20
Selenium	0.839	0.297	"	0.732		13.6	20
Silver	0.0392	0.0228	"	0.0358		8.99	20
Zinc	32.5	0.457	"	31.9		1.64	20

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BGA0019 - EPA 3050B**

**Matrix Spike (BGA0019-MS1)**

Source: 2212575-01

Prepared: 01/03/23 Analyzed: 01/04/23

Arsenic	44.4	0.228	mg/kg dry	45.7	3.57	89.5	75-125			
Barium	280	0.457	"	45.7	269	22.7	75-125			QM-05
Cadmium	2.07	0.228	"	2.28	0.260	79.3	75-125			
Copper	43.3	0.457	"	45.7	8.01	77.2	75-125			
Lead	22.8	0.228	"	22.8	6.87	69.9	75-125			QM-05
Nickel	44.1	0.457	"	45.7	6.92	81.3	75-125			
Selenium	4.47	0.297	"	4.57	0.732	81.9	75-125			
Silver	1.83	0.0228	"	2.28	0.0358	78.6	75-125			
Zinc	68.8	0.457	"	45.7	31.9	80.7	75-125			

**Matrix Spike Dup (BGA0019-MSD1)**

Source: 2212575-01

Prepared: 01/03/23 Analyzed: 01/04/23

Arsenic	55.9	0.228	mg/kg dry	45.7	3.57	115	75-125	22.9	25	
Barium	361	0.457	"	45.7	269	201	75-125	25.4	25	QM-05
Cadmium	2.60	0.228	"	2.28	0.260	103	75-125	22.8	25	
Copper	54.8	0.457	"	45.7	8.01	103	75-125	23.6	25	
Lead	27.9	0.228	"	22.8	6.87	92.1	75-125	20.0	25	
Nickel	56.0	0.457	"	45.7	6.92	107	75-125	23.9	25	
Selenium	5.38	0.297	"	4.57	0.732	102	75-125	18.6	25	
Silver	2.32	0.0228	"	2.28	0.0358	100	75-125	23.5	25	
Zinc	79.8	0.457	"	45.7	31.9	105	75-125	14.9	25	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

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

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

**Batch BFL0775 - 3060A Mod**

**Blank (BFL0775-BLK1)**

Prepared: 12/31/22 Analyzed: 01/01/23

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BFL0775-BS1)**

Prepared: 12/31/22 Analyzed: 01/01/23

Chromium, Hexavalent 24.4 0.30 mg/kg wet 25.0 97.4 80-120

**Duplicate (BFL0775-DUP1)**

**Source: 2212567-01**

Prepared: 12/31/22 Analyzed: 01/01/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BFL0775-MS1)**

**Source: 2212567-01**

Prepared: 12/31/22 Analyzed: 01/01/23

Chromium, Hexavalent 29.1 0.30 mg/kg dry 29.4 ND 99.0 75-125

**Matrix Spike Dup (BFL0775-MSD1)**

**Source: 2212567-01**

Prepared: 12/31/22 Analyzed: 01/01/23

Chromium, Hexavalent 29.3 0.30 mg/kg dry 29.4 ND 99.6 75-125 0.604 20

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

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

**Summit Scientific**

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

**Batch BGA0018 - General Preparation**

**Blank (BGA0018-BLK1)**

Prepared: 01/03/23 Analyzed: 01/04/23

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

**LCS (BGA0018-BS1)**

Prepared: 01/03/23 Analyzed: 01/04/23

Calcium	4.73	0.0500	mg/L wet	5.00		94.6	70-130			
Magnesium	4.69	0.0500	"	5.00		93.8	70-130			
Sodium	4.50	0.0500	"	5.00		90.0	70-130			

Summit Scientific

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Civitas Resources  
 650 Southgate Drive  
 Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
 01/05/23 14:03

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

**Summit Scientific**

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

**Batch BGA0014 - General Preparation**

**Duplicate (BGA0014-DUP1)**

**Source: 2212572-01**

**Prepared & Analyzed: 01/03/23**

% Solids	95.3		%		94.7			0.709	20	
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

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

**Summit Scientific**

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

**Batch BGA0039 - General Preparation**

**Blank (BGA0039-BLK1)**

Prepared & Analyzed: 01/04/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BGA0039-BS1)**

Prepared & Analyzed: 01/04/23

Specific Conductance (EC) 0.149 0.0100 mmhos/cm 0.150 99.4 95-105

**Duplicate (BGA0039-DUP1)**

Source: 2212572-01

Prepared & Analyzed: 01/04/23

Specific Conductance (EC) 0.231 0.0100 mmhos/cm 0.234 1.16 20

Summit Scientific

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Civitas Resources  
 650 Southgate Drive  
 Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
 01/05/23 14:03

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

**Summit Scientific**

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

**Batch BGA0040 - General Preparation**

**LCS (BGA0040-BS1)**

Prepared & Analyzed: 01/04/23

pH	9.19		pH Units	9.18	100	95-105
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**Duplicate (BGA0040-DUP1)**

Source: 2212572-01

Prepared & Analyzed: 01/04/23

pH	7.02		pH Units	7.35	4.59	20
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 14:03

### Notes and Definitions

- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

January 05, 2023

Martin Eckert III

Civitas Resources

650 Southgate Drive

Windsor, CO 80550

RE: Cox PC GK26-99HZ

Work Order # 2212575

Enclosed are the results of analyses for samples received by Summit Scientific on 12/30/22 18:02. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Scott Sheely For Paul Shrewsbury

President



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 13:59

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@2.5'	2212575-01	Soil	12/30/22 12:30	12/30/22 18:02
Background-02@2.5'	2212575-02	Soil	12/30/22 13:00	12/30/22 18:02
Background-03@2.5'	2212575-03	Soil	12/30/22 14:00	12/30/22 18:02
Background-04@2.5'	2212575-04	Soil	12/30/22 14:20	12/30/22 18:02

Summit Scientific

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# Summit Scientific

S<sub>2</sub>

2212575

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

Page 1 of 1

Client: Eagle Environmental Consulting / Civitas

Project Manager: Marin Eckert III / Invoice Copy

Address: 8000 W 44th Ave

E-Mail: mee3@eagle-enviro.com

City/State/Zip: Wheat Ridge, CO 80033

Phone: 303-433-0479

Project Name: Cox PC GK 26-99 HZ

Sampler Name: IM

Project Number: \_\_\_\_\_

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	EC-9070A	SAR-20B	PH-9045D	Boron-DDBA/Arbitral	Table 915/Arbitral	-600B/7196A		
1	Background-01 @ 2.5'	12/30/22	1230	2			X			X				X	X	X				EE/SAR/PH =
2	Background-02 @ 2.5'	↓	1300	↓			↓			↓				↓	↓	↓				Saturated pack prep
3	Background-03 @ 2.5'	↓	1400	↓			↓			↓				↓	↓	↓				
4	Background-04 @ 2.5'	↓	1420	↓			↓			↓				↓	↓	↓				⊗ MDLs needed
5																				
6																				
7																				
8																				
9																				
10																				

Relinquished by: <u>Rick Mahut</u>	Date/Time: <u>12/30/22 1801</u>	Received by: <u>Sheree Baker</u>	Date/Time: <u>12/30/22 18:02</u>	Turn Around Time (Check) Same Day _____ 72 hours 24 hours _____ Standard <input checked="" type="checkbox"/> 48 hours _____	Notes:
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____		
Temperature Upon Receipt: <u>0</u>	Corrected Temperature _____	HNO3 lot # _____		Sample Integrity:	
IR gun correction: _____	IR gun #: _____	Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No			

S<sub>2</sub>

2212575

Sample Receipt Checklist

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

Client: Eagle Environmental Consulting *Civitas* Client Project ID: Cox PC GK 20-99 H2

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

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

Temp (°C)  Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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"/>	<i>ice</i>
If custody seals are present, are they intact? <sup>(1)</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation <b>(excluding cooling)</b> ? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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):

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

S3  
Custodian Printed Name

12/30/22 18:02  
Date/Time



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 13:59

**Background-01@2.5'**  
**2212575-01 (Soil)**

Summit Scientific

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

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>1.21</b>	0.0100	0.00690	mg/L	1	BGA0013	01/03/23	01/04/23	EPA 6020B	

**Total Metals by EPA 6020B**

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Arsenic</b>	<b>3.57</b>	0.228	0.192	mg/kg dry	1	BGA0019	01/03/23	01/04/23	EPA 6020B	
<b>Barium</b>	<b>269</b>	0.457	0.361	"	"	"	"	"	"	
<b>Cadmium</b>	<b>0.260</b>	0.228	0.00822	"	"	"	"	"	"	
<b>Copper</b>	<b>8.01</b>	0.457	0.0239	"	"	"	"	"	"	
<b>Lead</b>	<b>6.87</b>	0.228	0.0627	"	"	"	"	"	"	
<b>Nickel</b>	<b>6.92</b>	0.457	0.0696	"	"	"	"	"	"	
<b>Selenium</b>	<b>0.732</b>	0.297	0.200	"	"	"	"	"	"	
<b>Silver</b>	<b>0.0358</b>	0.0228	0.00305	"	"	"	"	"	"	
<b>Zinc</b>	<b>31.9</b>	0.457	0.304	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chromium, Hexavalent	ND	0.30	0.0040	mg/kg dry	1	BFL0775	12/31/22	01/01/23	EPA 7196A	

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

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Calcium</b>	<b>65.1</b>	0.0571		mg/L dry	1	BGA0018	01/03/23	01/04/23	EPA 6020B	
<b>Magnesium</b>	<b>13.5</b>	0.0571		"	"	"	"	"	"	
<b>Sodium</b>	<b>31.8</b>	0.0571		"	"	"	"	"	"	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 13:59

**Background-01@2.5'**  
**2212575-01 (Soil)**

**Summit Scientific**

**Calculated Analysis**

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.937</b>	0.00100		units	1	BGA0079	01/05/23	01/05/23	Calculation	

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

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>87.6</b>			%	1	BGA0014	01/03/23	01/03/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.646</b>	0.0100	0.00100	mmhos/cm	1	BGA0039	01/04/23	01/04/23	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>7.36</b>			pH Units	1	BGA0040	01/04/23	01/04/23	EPA 9045D	

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 13:59

**Background-02@2.5'**  
**2212575-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **12/30/22 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.914</b>	0.0100	0.00690	mg/L	1	BGA0013	01/03/23	01/04/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **12/30/22 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Arsenic</b>	<b>3.09</b>	0.231	0.194	mg/kg dry	1	BGA0019	01/03/23	01/04/23	EPA 6020B	
<b>Barium</b>	<b>309</b>	0.461	0.364	"	"	"	"	"	"	
<b>Cadmium</b>	<b>0.341</b>	0.231	0.00830	"	"	"	"	"	"	
<b>Copper</b>	<b>10.3</b>	0.461	0.0241	"	"	"	"	"	"	
<b>Lead</b>	<b>9.11</b>	0.231	0.0634	"	"	"	"	"	"	
<b>Nickel</b>	<b>9.23</b>	0.461	0.0703	"	"	"	"	"	"	
<b>Selenium</b>	<b>0.988</b>	0.300	0.202	"	"	"	"	"	"	
<b>Silver</b>	<b>0.0556</b>	0.0231	0.00308	"	"	"	"	"	"	
<b>Zinc</b>	<b>41.0</b>	0.461	0.307	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **12/30/22 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chromium, Hexavalent	ND	0.30	0.0040	mg/kg dry	1	BFL0775	12/31/22	01/01/23	EPA 7196A	

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

Date Sampled: **12/30/22 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Calcium</b>	<b>174</b>	0.0576		mg/L dry	1	BGA0018	01/03/23	01/04/23	EPA 6020B	
<b>Magnesium</b>	<b>16.9</b>	0.0576		"	"	"	"	"	"	
<b>Sodium</b>	<b>24.3</b>	0.0576		"	"	"	"	"	"	

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 13:59

**Background-02@2.5'**  
**2212575-02 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **12/30/22 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Sodium Adsorption Ratio	0.471	0.00100		units	1	BGA0079	01/05/23	01/05/23	Calculation	

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

Date Sampled: **12/30/22 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	86.7			%	1	BGA0014	01/03/23	01/03/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **12/30/22 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.437	0.0100	0.00100	mmhos/cm	1	BGA0039	01/04/23	01/04/23	EPA 120.1	

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

Date Sampled: **12/30/22 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.78			pH Units	1	BGA0040	01/04/23	01/04/23	EPA 9045D	

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 13:59

**Background-03@2.5'**  
**2212575-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **12/30/22 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.380</b>	0.0100	0.00690	mg/L	1	BGA0013	01/03/23	01/04/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **12/30/22 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Arsenic</b>	<b>3.22</b>	0.226	0.191	mg/kg dry	1	BGA0019	01/03/23	01/04/23	EPA 6020B	
<b>Barium</b>	<b>198</b>	0.453	0.358	"	"	"	"	"	"	
<b>Cadmium</b>	<b>0.243</b>	0.226	0.00815	"	"	"	"	"	"	
<b>Copper</b>	<b>7.20</b>	0.453	0.0237	"	"	"	"	"	"	
<b>Lead</b>	<b>7.43</b>	0.226	0.0622	"	"	"	"	"	"	
<b>Nickel</b>	<b>6.82</b>	0.453	0.0690	"	"	"	"	"	"	
<b>Selenium</b>	<b>0.829</b>	0.294	0.198	"	"	"	"	"	"	
<b>Silver</b>	<b>0.0389</b>	0.0226	0.00302	"	"	"	"	"	"	
<b>Zinc</b>	<b>31.8</b>	0.453	0.301	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **12/30/22 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chromium, Hexavalent	ND	0.30	0.0040	mg/kg dry	1	BFL0775	12/31/22	01/01/23	EPA 7196A	

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

Date Sampled: **12/30/22 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Calcium</b>	<b>614</b>	0.0566		mg/L dry	1	BGA0018	01/03/23	01/04/23	EPA 6020B	
<b>Magnesium</b>	<b>38.3</b>	0.0566		"	"	"	"	"	"	
<b>Sodium</b>	<b>29.4</b>	0.0566		"	"	"	"	"	"	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 13:59

**Background-03@2.5'**  
**2212575-03 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **12/30/22 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Sodium Adsorption Ratio	<b>0.311</b>	0.00100		units	1	BGA0079	01/05/23	01/05/23	Calculation	

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

Date Sampled: **12/30/22 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	<b>88.4</b>			%	1	BGA0014	01/03/23	01/03/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **12/30/22 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	<b>0.230</b>	0.0100	0.00100	mmhos/cm	1	BGA0039	01/04/23	01/04/23	EPA 120.1	

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

Date Sampled: **12/30/22 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	<b>8.34</b>			pH Units	1	BGA0040	01/04/23	01/04/23	EPA 9045D	

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 13:59

**Background-04@2.5'**  
**2212575-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **12/30/22 14:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.643</b>	0.0100	0.00690	mg/L	1	BGA0013	01/03/23	01/04/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **12/30/22 14:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Arsenic</b>	<b>4.11</b>	0.224	0.188	mg/kg dry	1	BGA0019	01/03/23	01/04/23	EPA 6020B	
<b>Barium</b>	<b>303</b>	0.447	0.353	"	"	"	"	"	"	
<b>Cadmium</b>	<b>0.246</b>	0.224	0.00805	"	"	"	"	"	"	
<b>Copper</b>	<b>7.70</b>	0.447	0.0234	"	"	"	"	"	"	
<b>Lead</b>	<b>6.74</b>	0.224	0.0615	"	"	"	"	"	"	
<b>Nickel</b>	<b>7.12</b>	0.447	0.0682	"	"	"	"	"	"	
<b>Selenium</b>	<b>0.839</b>	0.291	0.196	"	"	"	"	"	"	
<b>Silver</b>	<b>0.0341</b>	0.0224	0.00299	"	"	"	"	"	"	
<b>Zinc</b>	<b>33.1</b>	0.447	0.297	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **12/30/22 14:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chromium, Hexavalent	ND	0.30	0.0040	mg/kg dry	1	BFL0775	12/31/22	01/01/23	EPA 7196A	

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

Date Sampled: **12/30/22 14:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Calcium</b>	<b>518</b>	0.0559		mg/L dry	1	BGA0018	01/03/23	01/04/23	EPA 6020B	
<b>Magnesium</b>	<b>35.0</b>	0.0559		"	"	"	"	"	"	
<b>Sodium</b>	<b>40.8</b>	0.0559		"	"	"	"	"	"	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 13:59

**Background-04@2.5'**  
**2212575-04 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **12/30/22 14:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Sodium Adsorption Ratio	<b>0.468</b>	0.00100		units	1	BGA0079	01/05/23	01/05/23	Calculation	

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

Date Sampled: **12/30/22 14:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	<b>89.4</b>			%	1	BGA0014	01/03/23	01/03/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **12/30/22 14:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	<b>0.335</b>	0.0100	0.00100	mmhos/cm	1	BGA0039	01/04/23	01/04/23	EPA 120.1	

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

Date Sampled: **12/30/22 14:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	<b>8.20</b>			pH Units	1	BGA0040	01/04/23	01/04/23	EPA 9045D	

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Civitas Resources  
 650 Southgate Drive  
 Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
 01/05/23 13:59

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

**Summit Scientific**

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

**Batch BGA0013 - EPA 3050B**

**Blank (BGA0013-BLK1)**

Prepared: 01/03/23 Analyzed: 01/04/23

Boron ND 0.0100 mg/L

**LCS (BGA0013-BS1)**

Prepared: 01/03/23 Analyzed: 01/04/23

Boron 5.92 0.0100 mg/L 5.00 118 80-120

**Duplicate (BGA0013-DUP1)**

Source: 2212572-01

Prepared: 01/03/23 Analyzed: 01/04/23

Boron 0.181 0.0100 mg/L 0.154 16.1 20

**Matrix Spike (BGA0013-MS1)**

Source: 2212572-01

Prepared: 01/03/23 Analyzed: 01/04/23

Boron 5.09 0.0100 mg/L 5.00 0.154 98.7 75-125

**Matrix Spike Dup (BGA0013-MSD1)**

Source: 2212572-01

Prepared: 01/03/23 Analyzed: 01/04/23

Boron 5.09 0.0100 mg/L 5.00 0.154 98.7 75-125 0.0155 25

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 13:59

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BGA0019 - EPA 3050B**

**Blank (BGA0019-BLK1)**

Prepared: 01/03/23 Analyzed: 01/04/23

Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	0.0414	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Selenium	ND	0.260	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							

**LCS (BGA0019-BS1)**

Prepared: 01/03/23 Analyzed: 01/04/23

Arsenic	44.2	0.200	mg/kg wet	40.0	111	80-120
Barium	43.3	0.400	"	40.0	108	80-120
Cadmium	2.12	0.200	"	2.00	106	80-120
Copper	41.7	0.400	"	40.0	104	80-120
Lead	20.9	0.200	"	20.0	104	80-120
Nickel	41.8	0.400	"	40.0	105	80-120
Selenium	4.29	0.260	"	4.00	107	80-120
Silver	2.09	0.0200	"	2.00	104	80-120
Zinc	44.8	0.400	"	40.0	112	80-120

**Duplicate (BGA0019-DUP1)**

Source: 2212575-01

Prepared: 01/03/23 Analyzed: 01/04/23

Arsenic	3.57	0.228	mg/kg dry	3.57	0.0148	20
Barium	271	0.457	"	269	0.723	20
Cadmium	0.259	0.228	"	0.260	0.0426	20
Copper	8.11	0.457	"	8.01	1.24	20
Lead	6.90	0.228	"	6.87	0.448	20
Nickel	7.01	0.457	"	6.92	1.39	20
Selenium	0.839	0.297	"	0.732	13.6	20
Silver	0.0392	0.0228	"	0.0358	8.99	20
Zinc	32.5	0.457	"	31.9	1.64	20

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 13:59

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BGA0019 - EPA 3050B**

**Matrix Spike (BGA0019-MS1)**

Source: 2212575-01

Prepared: 01/03/23 Analyzed: 01/04/23

Arsenic	44.4	0.228	mg/kg dry	45.7	3.57	89.5	75-125			
Barium	280	0.457	"	45.7	269	22.7	75-125			QM-05
Cadmium	2.07	0.228	"	2.28	0.260	79.3	75-125			
Copper	43.3	0.457	"	45.7	8.01	77.2	75-125			
Lead	22.8	0.228	"	22.8	6.87	69.9	75-125			QM-05
Nickel	44.1	0.457	"	45.7	6.92	81.3	75-125			
Selenium	4.47	0.297	"	4.57	0.732	81.9	75-125			
Silver	1.83	0.0228	"	2.28	0.0358	78.6	75-125			
Zinc	68.8	0.457	"	45.7	31.9	80.7	75-125			

**Matrix Spike Dup (BGA0019-MSD1)**

Source: 2212575-01

Prepared: 01/03/23 Analyzed: 01/04/23

Arsenic	55.9	0.228	mg/kg dry	45.7	3.57	115	75-125	22.9	25	
Barium	361	0.457	"	45.7	269	201	75-125	25.4	25	QM-05
Cadmium	2.60	0.228	"	2.28	0.260	103	75-125	22.8	25	
Copper	54.8	0.457	"	45.7	8.01	103	75-125	23.6	25	
Lead	27.9	0.228	"	22.8	6.87	92.1	75-125	20.0	25	
Nickel	56.0	0.457	"	45.7	6.92	107	75-125	23.9	25	
Selenium	5.38	0.297	"	4.57	0.732	102	75-125	18.6	25	
Silver	2.32	0.0228	"	2.28	0.0358	100	75-125	23.5	25	
Zinc	79.8	0.457	"	45.7	31.9	105	75-125	14.9	25	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 13:59

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

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

**Batch BFL0775 - 3060A Mod**

**Blank (BFL0775-BLK1)**

Prepared: 12/31/22 Analyzed: 01/01/23

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BFL0775-BS1)**

Prepared: 12/31/22 Analyzed: 01/01/23

Chromium, Hexavalent 24.4 0.30 mg/kg wet 25.0 97.4 80-120

**Duplicate (BFL0775-DUP1)**

**Source: 2212567-01**

Prepared: 12/31/22 Analyzed: 01/01/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BFL0775-MS1)**

**Source: 2212567-01**

Prepared: 12/31/22 Analyzed: 01/01/23

Chromium, Hexavalent 29.1 0.30 mg/kg dry 29.4 ND 99.0 75-125

**Matrix Spike Dup (BFL0775-MSD1)**

**Source: 2212567-01**

Prepared: 12/31/22 Analyzed: 01/01/23

Chromium, Hexavalent 29.3 0.30 mg/kg dry 29.4 ND 99.6 75-125 0.604 20

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 13:59

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

**Summit Scientific**

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

**Batch BGA0018 - General Preparation**

**Blank (BGA0018-BLK1)**

Prepared: 01/03/23 Analyzed: 01/04/23

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

**LCS (BGA0018-BS1)**

Prepared: 01/03/23 Analyzed: 01/04/23

Calcium	4.73	0.0500	mg/L wet	5.00		94.6	70-130			
Magnesium	4.69	0.0500	"	5.00		93.8	70-130			
Sodium	4.50	0.0500	"	5.00		90.0	70-130			

Summit Scientific

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Civitas Resources  
 650 Southgate Drive  
 Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
 01/05/23 13:59

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

**Summit Scientific**

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

**Batch BGA0014 - General Preparation**

**Duplicate (BGA0014-DUP1)**

**Source: 2212572-01**

Prepared & Analyzed: 01/03/23

% Solids	95.3		%		94.7			0.709	20	
----------	------	--	---	--	------	--	--	-------	----	--

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 13:59

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

**Summit Scientific**

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

**Batch BGA0039 - General Preparation**

**Blank (BGA0039-BLK1)**

Prepared & Analyzed: 01/04/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BGA0039-BS1)**

Prepared & Analyzed: 01/04/23

Specific Conductance (EC) 0.149 0.0100 mmhos/cm 0.150 99.4 95-105

**Duplicate (BGA0039-DUP1)**

Source: 2212572-01

Prepared & Analyzed: 01/04/23

Specific Conductance (EC) 0.231 0.0100 mmhos/cm 0.234 1.16 20

Summit Scientific

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Civitas Resources  
 650 Southgate Drive  
 Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
 01/05/23 13:59

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

**Summit Scientific**

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

**Batch BGA0040 - General Preparation**

**LCS (BGA0040-BS1)**

Prepared & Analyzed: 01/04/23

pH	9.19	pH Units	9.18	100	95-105
----	------	----------	------	-----	--------

**Duplicate (BGA0040-DUP1)**

Source: 2212572-01

Prepared & Analyzed: 01/04/23

pH	7.02	pH Units	7.35	4.59	20
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
01/05/23 13:59

### Notes and Definitions

- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

February 09, 2023

Martin Eckert III

Civitas Resources

650 Southgate Drive

Windsor, CO 80550

RE: Cox PC GK26-99HZ

Work Order # 2302104

Enclosed are the results of analyses for samples received by Summit Scientific on 02/07/23 14:28. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Sheely". The signature is written in a cursive style with a large initial "S".

Scott Sheely For Paul Shrewsbury

President



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
02/09/23 15:25

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS-SS-01@2.5'	2302104-01	Soil	02/07/23 11:35	02/07/23 14:28
CS-SS-02@2.5'	2302104-02	Soil	02/07/23 11:40	02/07/23 14:28
CS-FS-01@3'	2302104-03	Soil	02/07/23 11:45	02/07/23 14:28

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

2302804

S<sub>2</sub>

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

Page 1 of 1

Client: Eagle Environmental Consulting / Civitas

Project Manager: Martin Eckert III / invoice Cory

Address: 4200 W 44th Ave

E-Mail: mee3@eagle-enviro.com

City/State/Zip: Wheat Ridge, CO 80033

Phone: 303-433-0479

Project Name: Cox PL GK 26-99HZ

Sampler Name: IM

Project Number: —

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	GC, STEK, TABS - 8260D	DDO/REO-8015D	PAHs - 8270D SIM	Baron - DTPH/50th In	EC-9050A	SAR-2013	
1	CS-SS-01 @ 2.5'	2/7/23	1135	2			X			X				X	X	X	X		EC/SAR/PH =
2	CS-SS-02 @ 2.5'	↓	1140	↓										X	X	X	X		saturated paste prep
3	CS-FS-01 @ 3'	↓	1145	↓										X	X	X	X		
4																			Ⓢ MDLs needed
5																			
6																			
7																			
8																			
9																			
10																			
Relinquished by: <i>[Signature]</i>		Date/Time: 2/7/23/1427		Received by: <i>[Signature]</i>		Date/Time: 02/07/23 14:28		Turn Around Time (Check)			Notes:								
								Same Day <input checked="" type="checkbox"/>			72 hours <input type="checkbox"/>								
								24 hours <input type="checkbox"/>			Standard <input type="checkbox"/>								
								48 hours <input type="checkbox"/>											
Temperature Upon Receipt: 1.1		Corrected Temperature		HNO3 lot #		Sample Integrity:			Samples Intact: Yes No										
IR gun correction: _____		IR gun #: 02																	

# S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2302104Client: Eagle Environmental Consulting/Civitas Client Project ID: Cox PC GK 26-94HZShipped Via: H.D./P.U./FedEx/UPS/USPS/Other  Airbill #: \_\_\_\_\_

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------

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

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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):

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

Crown Strohman  
Custodian Printed Name

02/07/23  
Date/Time

14:35pm



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
02/09/23 15:25

**CS-SS-01@2.5'**  
**2302104-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/07/23 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGB0182	02/07/23	02/07/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.11</b>	<b>0.50</b>		"	"	"	"	"	"	

Date Sampled: **02/07/23 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		81.5 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		88.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.3 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/07/23 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>C10-C28 (DRO)</b>	<b>11</b>	50	4.3	mg/kg	1	BGB0183	02/07/23	02/07/23	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>5.5</b>	50	4.3	"	"	"	"	"	"	

Date Sampled: **02/07/23 11:35**

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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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
02/09/23 15:25

**CS-SS-01@2.5'**  
**2302104-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/07/23 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGB0191	02/08/23	02/09/23	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: **02/07/23 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		75.9 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		61.5 %		40-150		"	"	"	"	

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

Date Sampled: **02/07/23 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>3.25</b>	0.0100	0.00690	mg/L	1	BGB0184	02/07/23	02/09/23	EPA 6020B	

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

Date Sampled: **02/07/23 11:35**

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

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
02/09/23 15:25

**CS-SS-01@2.5'**  
**2302104-01 (Soil)**

**Summit Scientific**

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1300	0.0631		mg/L dry	1	BGB0170	02/07/23	02/09/23	EPA 6020B	
Magnesium	86.4	0.0631		"	"	"	"	"	"	
Sodium	805	0.0631		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/07/23 11:35**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.84	0.00100		units	1	BGB0264	02/09/23	02/09/23	Calculation	

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

Date Sampled: **02/07/23 11:35**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.3			%	1	BGB0202	02/08/23	02/08/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/07/23 11:35**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.08	0.0100	0.00100	mmhos/cm	1	BGB0198	02/08/23	02/08/23	EPA 120.1	

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

Date Sampled: **02/07/23 11:35**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.84			pH Units	1	BGB0199	02/08/23	02/08/23	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
02/09/23 15:25

**CS-SS-02@2.5'**  
**2302104-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/07/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGB0182	02/07/23	02/07/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.12</b>	<b>0.50</b>		"	"	"	"	"	"	

Date Sampled: **02/07/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		83.1 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		92.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/07/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>C10-C28 (DRO)</b>	<b>12</b>	50	4.3	mg/kg	1	BGB0183	02/07/23	02/07/23	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>4.9</b>	50	4.3	"	"	"	"	"	"	

Date Sampled: **02/07/23 11:40**

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

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
02/09/23 15:25

**CS-SS-02@2.5'**  
**2302104-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/07/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGB0191	02/08/23	02/09/23	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: **02/07/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		85.6 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		67.6 %		40-150		"	"	"	"	"

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

Date Sampled: **02/07/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.349</b>	0.0100	0.00690	mg/L	1	BGB0184	02/07/23	02/09/23	EPA 6020B	

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

Date Sampled: **02/07/23 11:40**

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

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
02/09/23 15:25

**CS-SS-02@2.5'**  
**2302104-02 (Soil)**

**Summit Scientific**

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	59.5	0.0654		mg/L dry	1	BGB0170	02/07/23	02/09/23	EPA 6020B	
Magnesium	8.04	0.0654		"	"	"	"	"	"	
Sodium	62.8	0.0654		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/07/23 11:40**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.03	0.00100		units	1	BGB0264	02/09/23	02/09/23	Calculation	

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

Date Sampled: **02/07/23 11:40**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	76.5			%	1	BGB0202	02/08/23	02/08/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/07/23 11:40**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.670	0.0100	0.00100	mmhos/cm	1	BGB0198	02/08/23	02/08/23	EPA 120.1	

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

Date Sampled: **02/07/23 11:40**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.79			pH Units	1	BGB0199	02/08/23	02/08/23	EPA 9045D	

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Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
02/09/23 15:25

**CS-FS-01@3'**  
**2302104-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/07/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGB0182	02/07/23	02/07/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.12</b>	<b>0.50</b>		"	"	"	"	"	"	

Date Sampled: **02/07/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		79.0 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		88.9 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/07/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>C10-C28 (DRO)</b>	<b>16</b>	50	4.3	mg/kg	1	BGB0183	02/07/23	02/07/23	EPA 8015M	
C28-C36 (ORO)	ND	50	4.3	"	"	"	"	"	"	

Date Sampled: **02/07/23 11:45**

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

**PAH by EPA Method 8270D SIM**

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650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
02/09/23 15:25

**CS-FS-01@3'**  
**2302104-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/07/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGB0191	02/08/23	02/09/23	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: **02/07/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		85.1 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		73.4 %		40-150		"	"	"	"	

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

Date Sampled: **02/07/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.170</b>	0.0100	0.00690	mg/L	1	BGB0184	02/07/23	02/09/23	EPA 6020B	

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

Date Sampled: **02/07/23 11:45**

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

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650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
02/09/23 15:25

**CS-FS-01@3'**  
**2302104-03 (Soil)**

**Summit Scientific**

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	73.9	0.0722		mg/L dry	1	BGB0170	02/07/23	02/09/23	EPA 6020B	
Magnesium	16.6	0.0722		"	"	"	"	"	"	
Sodium	168	0.0722		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/07/23 11:45**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.60	0.00100		units	1	BGB0264	02/09/23	02/09/23	Calculation	

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

Date Sampled: **02/07/23 11:45**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	69.3			%	1	BGB0202	02/08/23	02/08/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/07/23 11:45**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.37	0.0100	0.00100	mmhos/cm	1	BGB0198	02/08/23	02/08/23	EPA 120.1	

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

Date Sampled: **02/07/23 11:45**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.68			pH Units	1	BGB0199	02/08/23	02/08/23	EPA 9045D	

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
02/09/23 15:25

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

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

#### Batch BGB0182 - EPA 5030 Soil MS

##### Blank (BGB0182-BLK1)

Prepared: 02/07/23 Analyzed: 02/08/23

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	0.170	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0447</i>		<i>"</i>	<i>0.0400</i>		<i>112</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0470</i>		<i>"</i>	<i>0.0400</i>		<i>118</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0494</i>		<i>"</i>	<i>0.0400</i>		<i>123</i>	<i>50-150</i>			

##### LCS (BGB0182-BS1)

Prepared: 02/07/23 Analyzed: 02/08/23

Benzene	0.0869	0.0020	mg/kg	0.100		86.9	70-130			
Toluene	0.0869	0.0050	"	0.100		86.9	70-130			
Ethylbenzene	0.108	0.0050	"	0.100		108	70-130			
m,p-Xylene	0.221	0.010	"	0.200		110	70-130			
o-Xylene	0.103	0.0050	"	0.100		103	70-130			
1,2,4-Trimethylbenzene	0.0972	0.0050	"	0.100		97.2	70-130			
1,3,5-Trimethylbenzene	0.103	0.0050	"	0.100		103	70-130			
Naphthalene	0.0911	0.0038	"	0.100		91.1	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0246</i>		<i>"</i>	<i>0.0400</i>		<i>61.4</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0354</i>		<i>"</i>	<i>0.0400</i>		<i>88.5</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0374</i>		<i>"</i>	<i>0.0400</i>		<i>93.5</i>	<i>50-150</i>			

##### Matrix Spike (BGB0182-MS1)

Source: 2302104-01

Prepared: 02/07/23 Analyzed: 02/08/23

Benzene	0.0809	0.0020	mg/kg	0.100	ND	80.9	70-130			
Toluene	0.0727	0.0050	"	0.100	ND	72.7	70-130			
Ethylbenzene	0.0992	0.0050	"	0.100	ND	99.2	70-130			
m,p-Xylene	0.199	0.010	"	0.200	ND	99.4	70-130			
o-Xylene	0.0929	0.0050	"	0.100	ND	92.9	70-130			
1,2,4-Trimethylbenzene	0.0862	0.0050	"	0.100	ND	86.2	70-130			
1,3,5-Trimethylbenzene	0.0889	0.0050	"	0.100	ND	88.9	70-130			
Naphthalene	0.0933	0.0038	"	0.100	ND	93.3	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0238</i>		<i>"</i>	<i>0.0400</i>		<i>59.4</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0324</i>		<i>"</i>	<i>0.0400</i>		<i>81.1</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0366</i>		<i>"</i>	<i>0.0400</i>		<i>91.5</i>	<i>50-150</i>			

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
02/09/23 15:25

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

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

**Batch BGB0182 - EPA 5030 Soil MS**

Matrix Spike Dup (BGB0182-MSD1)	Source: 2302104-01			Prepared: 02/07/23 Analyzed: 02/08/23					
Benzene	0.0796	0.0020	mg/kg	0.100	ND	79.6	70-130	1.53	30
Toluene	0.0718	0.0050	"	0.100	ND	71.8	70-130	1.16	30
Ethylbenzene	0.0979	0.0050	"	0.100	ND	97.9	70-130	1.31	30
m,p-Xylene	0.195	0.010	"	0.200	ND	97.4	70-130	2.07	30
o-Xylene	0.0916	0.0050	"	0.100	ND	91.6	70-130	1.40	30
1,2,4-Trimethylbenzene	0.0849	0.0050	"	0.100	ND	84.9	70-130	1.51	30
1,3,5-Trimethylbenzene	0.0883	0.0050	"	0.100	ND	88.3	70-130	0.643	30
Naphthalene	0.0923	0.0038	"	0.100	ND	92.3	70-130	1.03	30
Surrogate: 1,2-Dichloroethane-d4	0.0239		"	0.0400		59.8	50-150		
Surrogate: Toluene-d8	0.0326		"	0.0400		81.4	50-150		
Surrogate: 4-Bromofluorobenzene	0.0362		"	0.0400		90.4	50-150		

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650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
02/09/23 15:25

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

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

**Batch BGB0183 - EPA 3550A**

**Blank (BGB0183-BLK1)**

Prepared: 02/07/23 Analyzed: 02/08/23

C10-C28 (DRO)	19.2	50	mg/kg								
C28-C36 (ORO)	5.14	50	"								
Surrogate: <i>o</i> -Terphenyl	13.0		"	12.5	104	30-150					

**LCS (BGB0183-BS1)**

Prepared: 02/07/23 Analyzed: 02/08/23

C10-C28 (DRO)	455	50	mg/kg	500	91.0	70-130					
Surrogate: <i>o</i> -Terphenyl	13.3		"	12.5	106	30-150					

**Matrix Spike (BGB0183-MS1)**

Source: 2302104-01

Prepared: 02/07/23 Analyzed: 02/08/23

C10-C28 (DRO)	422	50	mg/kg	500	10.6	82.3	70-130				
Surrogate: <i>o</i> -Terphenyl	11.5		"	12.5	92.0	30-150					

**Matrix Spike Dup (BGB0183-MSD1)**

Source: 2302104-01

Prepared: 02/07/23 Analyzed: 02/08/23

C10-C28 (DRO)	405	50	mg/kg	500	10.6	78.8	70-130	4.21	20		
Surrogate: <i>o</i> -Terphenyl	11.4		"	12.5	91.4	30-150					

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
02/09/23 15:25

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

**Summit Scientific**

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

**Batch BGB0191 - EPA 5030 Soil MS**

**Blank (BGB0191-BLK1)**

Prepared & Analyzed: 02/08/23

Acenaphthene	ND	0.00500	mg/kg								
Anthracene	ND	0.00500	"								
Benzo (a) anthracene	ND	0.00500	"								
Benzo (a) pyrene	ND	0.00500	"								
Benzo (b) fluoranthene	ND	0.00500	"								
Benzo (k) fluoranthene	ND	0.00500	"								
Chrysene	ND	0.00500	"								
Dibenz (a,h) anthracene	ND	0.00500	"								
Fluoranthene	ND	0.00500	"								
Fluorene	ND	0.00500	"								
Indeno (1,2,3-cd) pyrene	ND	0.00500	"								
Pyrene	ND	0.00500	"								
1-Methylnaphthalene	ND	0.00500	"								
2-Methylnaphthalene	ND	0.00500	"								
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0333</i>		"	<i>0.0333</i>		<i>99.9</i>		<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0289</i>		"	<i>0.0333</i>		<i>86.8</i>		<i>40-150</i>			

**LCS (BGB0191-BS1)**

Prepared & Analyzed: 02/08/23

Acenaphthene	0.0373	0.00500	mg/kg	0.0333		112		31-137			
Anthracene	0.0344	0.00500	"	0.0333		103		30-120			
Benzo (a) anthracene	0.0269	0.00500	"	0.0333		80.6		30-120			
Benzo (a) pyrene	0.0280	0.00500	"	0.0333		84.1		30-120			
Benzo (b) fluoranthene	0.0272	0.00500	"	0.0333		81.6		30-120			
Benzo (k) fluoranthene	0.0340	0.00500	"	0.0333		102		30-120			
Chrysene	0.0294	0.00500	"	0.0333		88.1		30-120			
Dibenz (a,h) anthracene	0.0301	0.00500	"	0.0333		90.2		30-120			
Fluoranthene	0.0383	0.00500	"	0.0333		115		30-120			
Fluorene	0.0330	0.00500	"	0.0333		99.1		30-120			
Indeno (1,2,3-cd) pyrene	0.0279	0.00500	"	0.0333		83.7		30-120			
Pyrene	0.0306	0.00500	"	0.0333		91.9		35-142			
1-Methylnaphthalene	0.0294	0.00500	"	0.0333		88.2		35-142			
2-Methylnaphthalene	0.0317	0.00500	"	0.0333		95.0		35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0294</i>		"	<i>0.0333</i>		<i>88.1</i>		<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0373</i>		"	<i>0.0333</i>		<i>112</i>		<i>40-150</i>			

Summit Scientific

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



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

Reported:  
02/09/23 15:25

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGB0191 - EPA 5030 Soil MS

Matrix Spike (BGB0191-MS1)	Source: 2302103-01			Prepared & Analyzed: 02/08/23						
Acenaphthene	0.0203	0.00500	mg/kg	0.0333	ND	60.9	31-137			
Anthracene	0.0191	0.00500	"	0.0333	ND	57.2	30-120			
Benzo (a) anthracene	0.0168	0.00500	"	0.0333	ND	50.4	30-120			
Benzo (a) pyrene	0.0154	0.00500	"	0.0333	ND	46.2	30-120			
Benzo (b) fluoranthene	0.0144	0.00500	"	0.0333	ND	43.1	30-120			
Benzo (k) fluoranthene	0.0176	0.00500	"	0.0333	ND	52.8	30-120			
Chrysene	0.0158	0.00500	"	0.0333	ND	47.5	30-120			
Dibenz (a,h) anthracene	0.0156	0.00500	"	0.0333	ND	46.8	30-120			
Fluoranthene	0.0193	0.00500	"	0.0333	ND	57.9	30-120			
Fluorene	0.0185	0.00500	"	0.0333	ND	55.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0149	0.00500	"	0.0333	ND	44.7	30-120			
Pyrene	0.0168	0.00500	"	0.0333	ND	50.5	35-142			
1-Methylnaphthalene	0.0199	0.00500	"	0.0333	ND	59.8	15-130			
2-Methylnaphthalene	0.0224	0.00500	"	0.0333	ND	67.3	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0196		"	0.0333		58.8	40-150			
Surrogate: Fluoranthene-d10	0.0195		"	0.0333		58.5	40-150			

Matrix Spike Dup (BGB0191-MSD1)	Source: 2302103-01			Prepared & Analyzed: 02/08/23						
Acenaphthene	0.0187	0.00500	mg/kg	0.0333	ND	56.1	31-137	8.08	30	
Anthracene	0.0174	0.00500	"	0.0333	ND	52.3	30-120	8.80	30	
Benzo (a) anthracene	0.0161	0.00500	"	0.0333	ND	48.3	30-120	4.19	30	
Benzo (a) pyrene	0.0145	0.00500	"	0.0333	ND	43.5	30-120	6.09	30	
Benzo (b) fluoranthene	0.0152	0.00500	"	0.0333	ND	45.6	30-120	5.76	30	
Benzo (k) fluoranthene	0.0155	0.00500	"	0.0333	ND	46.6	30-120	12.4	30	
Chrysene	0.0147	0.00500	"	0.0333	ND	44.0	30-120	7.53	30	
Dibenz (a,h) anthracene	0.0147	0.00500	"	0.0333	ND	44.2	30-120	5.77	30	
Fluoranthene	0.0210	0.00500	"	0.0333	ND	62.9	30-120	8.29	30	
Fluorene	0.0164	0.00500	"	0.0333	ND	49.3	30-120	11.5	30	
Indeno (1,2,3-cd) pyrene	0.0140	0.00500	"	0.0333	ND	42.1	30-120	6.12	30	
Pyrene	0.0170	0.00500	"	0.0333	ND	50.9	35-142	0.680	30	
1-Methylnaphthalene	0.0176	0.00500	"	0.0333	ND	52.8	15-130	12.4	50	
2-Methylnaphthalene	0.0208	0.00500	"	0.0333	ND	62.3	15-130	7.66	50	
Surrogate: 2-Methylnaphthalene-d10	0.0179		"	0.0333		53.7	40-150			
Surrogate: Fluoranthene-d10	0.0208		"	0.0333		62.4	40-150			

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
02/09/23 15:25

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

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

**Batch BGB0184 - EPA 3050B**

**Blank (BGB0184-BLK1)**

Prepared: 02/07/23 Analyzed: 02/09/23

Boron ND 0.0100 mg/L

**LCS (BGB0184-BS1)**

Prepared: 02/07/23 Analyzed: 02/09/23

Boron 4.99 0.0100 mg/L 5.00 99.8 80-120

**Duplicate (BGB0184-DUP1)**

**Source: 2302069-01**

Prepared: 02/07/23 Analyzed: 02/09/23

Boron 0.165 0.0100 mg/L 0.177 7.18 20

**Matrix Spike (BGB0184-MS1)**

**Source: 2302069-01**

Prepared: 02/07/23 Analyzed: 02/09/23

Boron 5.00 0.0100 mg/L 5.00 0.177 96.4 75-125

**Matrix Spike Dup (BGB0184-MSD1)**

**Source: 2302069-01**

Prepared: 02/07/23 Analyzed: 02/09/23

Boron 4.94 0.0100 mg/L 5.00 0.177 95.3 75-125 1.15 25

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
02/09/23 15:25

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

**Summit Scientific**

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

**Batch BGB0170 - General Preparation**

**Blank (BGB0170-BLK1)**

Prepared: 02/07/23 Analyzed: 02/09/23

Calcium	0.0442	0.0500	mg/L wet
Magnesium	0.00333	0.0500	"
Sodium	ND	0.0500	"

**LCS (BGB0170-BS1)**

Prepared: 02/07/23 Analyzed: 02/09/23

Calcium	5.43	0.0500	mg/L wet	5.00	109	70-130
Magnesium	4.92	0.0500	"	5.00	98.4	70-130
Sodium	4.69	0.0500	"	5.00	93.9	70-130

Summit Scientific

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Civitas Resources  
 650 Southgate Drive  
 Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
 02/09/23 15:25

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

**Summit Scientific**

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

**Batch BGB0202 - General Preparation**

<b>Duplicate (BGB0202-DUP1)</b>		<b>Source: 2302104-01</b>			<b>Prepared &amp; Analyzed: 02/08/23</b>			
% Solids	81.5		%		79.3		2.73	20

Summit Scientific

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Civitas Resources  
 650 Southgate Drive  
 Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
 02/09/23 15:25

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

**Summit Scientific**

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

**Batch BGB0198 - General Preparation**

**Blank (BGB0198-BLK1)**

Prepared & Analyzed: 02/08/23

Specific Conductance (EC) 0.00120 0.0100 mmhos/cm

**LCS (BGB0198-BS1)**

Prepared & Analyzed: 02/08/23

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

**Duplicate (BGB0198-DUP1)**

Source: 2211388-01

Prepared & Analyzed: 02/08/23

Specific Conductance (EC) 0.413 0.0100 mmhos/cm 0.417 0.867 20

Summit Scientific

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Civitas Resources  
 650 Southgate Drive  
 Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
 02/09/23 15:25

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

**Summit Scientific**

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

**Batch BGB0199 - General Preparation**

**LCS (BGB0199-BS1)**

Prepared & Analyzed: 02/08/23

pH	9.05	pH Units	9.18	98.6	95-105
----	------	----------	------	------	--------

**Duplicate (BGB0199-DUP1)**

Source: 2302067-01

Prepared & Analyzed: 02/08/23

pH	8.29	pH Units	8.38	1.08	20
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
02/09/23 15:25

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

February 27, 2023

Martin Eckert III

Civitas Resources

650 Southgate Drive

Windsor, CO 80550

RE: Cox PC GK26-99HZ

Work Order # 2302399

Enclosed are the results of analyses for samples received by Summit Scientific on 02/21/23 17:11. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Scott Sheely For Paul Shrewsbury

President



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
02/27/23 12:35

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS-SS-03@2.5'	2302399-01	Soil	02/21/23 13:15	02/21/23 17:11
CS-FS-02@3'	2302399-02	Soil	02/21/23 13:20	02/21/23 17:11

Summit Scientific

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# SUMMIT SCIENTIFIC

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

Lab ID  
**2302399**  
Page **1** of **1**

<b>Send Data To:</b>		<b>Send Invoice To:</b>
Client: <i>Eagle Environmental Consulting</i>	Project Manager: <i>Martha Eckert III</i>	Company: <i>Civitas</i>
Address: <i>8000 W 44th Ave</i>	E-Mail: <i>mce3@eagle-enviro.com</i>	Project Name/Location:
City/State/Zip: <i>Wheat Ridge, CO 80033</i>		AFE#:
Phone: <i>303-433-0479</i>	Project Name: <i>Cox PC GK 26-99HZ</i>	PO/Billing Codes:
Sampler Name: <i>TL</i>	Project Number: <i>—</i>	Contact: <i>Cory</i>

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested							Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	G, BTEX, Naphthalene, TMS - 8260D	DRD/BRO - 8015D	PAHs - 8270D sin	EC - 9050A	SAR - 20A	pH - 9045D	
1	CS-SS-03 @ 2.5'	2-21-23	1315	2			X			X			X	X	X	X	X	X	EC, SAR, pH = saturated paste prep
2	CS-FS-02 @ 3'	2-21-23	1320	2			X			X			X	X	X	X	X	X	
3																			MDLs needed
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: <i>Trevor Lytle</i>	Date/Time: <i>2-21-23/1710</i>	Received by: <i>Sara Shochy</i>	Date/Time: <i>2/21/23 1711</i>	TAT Business Days	Field DO	Notes:	
				Same Day	X		Field EC
				1 Day			Field ORP
				2 Days			Field pH
				3 Days			Field Temp.
				Standard		Field Turb.	
Temperature Upon Receipt: <i>3.8</i>	Corrected Temperature: <i>—</i>	IR gun #: <i>02</i>	HNO3 lot #: <i>—</i>				

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2302399

Client: Eagle Environmental Client Project ID: Cox PC GK 26-99 H2

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

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

Temp (°C) 38 Thermometer # 02

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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"/>	<u>on Ice</u>
If custody seals are present, are they intact? <sup>(1)</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Same day</u>
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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):

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

[Signature]  
Custodian Printed Name

2/21/23 1711  
Date/Time



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
02/27/23 12:35

**CS-SS-03@2.5'**  
**2302399-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/21/23 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGB0673	02/21/23	02/21/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.0093</b>	<b>0.50</b>		"	"	"	"	"	"	

Date Sampled: **02/21/23 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		89.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		92.7 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.4 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/21/23 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>C10-C28 (DRO)</b>	<b>19</b>	50	4.3	mg/kg	1	BGB0674	02/21/23	02/21/23	EPA 8015M	
C28-C36 (ORO)	ND	50	4.3	"	"	"	"	"	"	

Date Sampled: **02/21/23 13:15**

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

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
02/27/23 12:35

**CS-SS-03@2.5'**  
**2302399-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/21/23 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGB0684	02/22/23	02/22/23	EPA 8270D SIM	
<b>Anthracene</b>	<b>0.00314</b>	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: **02/21/23 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		52.5 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		48.1 %		40-150		"	"	"	"	"

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

Date Sampled: **02/21/23 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.451</b>	0.0100	0.00690	mg/L	1	BGB0675	02/21/23	02/23/23	EPA 6020B	

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

Date Sampled: **02/21/23 13:15**

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

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
02/27/23 12:35

**CS-SS-03@2.5'**  
**2302399-01 (Soil)**

**Summit Scientific**

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	712	0.0592		mg/L dry	1	BGB0677	02/21/23	02/23/23	EPA 6020B	
Magnesium	29.2	0.0592		"	"	"	"	"	"	
Sodium	154	0.0592		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/21/23 13:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.53	0.00100		units	1	BGB0746	02/23/23	02/23/23	Calculation	

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

Date Sampled: **02/21/23 13:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.5			%	1	BGB0698	02/22/23	02/22/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/21/23 13:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.629	0.0100	0.00100	mmhos/cm	1	BGB0701	02/22/23	02/22/23	EPA 120.1	

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

Date Sampled: **02/21/23 13:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.83			pH Units	1	BGB0702	02/22/23	02/22/23	EPA 9045D	

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
02/27/23 12:35

**CS-FS-02@3'**  
**2302399-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/21/23 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGB0673	02/21/23	02/21/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.0098</b>	<b>0.50</b>		"	"	"	"	"	"	

Date Sampled: **02/21/23 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		94.5 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		96.0 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.6 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/21/23 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>C10-C28 (DRO)</b>	<b>12</b>	50	4.3	mg/kg	1	BGB0674	02/21/23	02/21/23	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>4.6</b>	50	4.3	"	"	"	"	"	"	

Date Sampled: **02/21/23 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		100 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
02/27/23 12:35

**CS-FS-02@3'**  
**2302399-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/21/23 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGB0684	02/22/23	02/23/23	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: **02/21/23 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		42.6 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		45.0 %		40-150		"	"	"	"	"

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

Date Sampled: **02/21/23 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.445</b>	0.0100	0.00690	mg/L	1	BGB0675	02/21/23	02/23/23	EPA 6020B	

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

Date Sampled: **02/21/23 13:20**

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

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650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
02/27/23 12:35

**CS-FS-02@3'**  
**2302399-02 (Soil)**

**Summit Scientific**

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	77.1	0.0653		mg/L dry	1	BGB0677	02/21/23	02/23/23	EPA 6020B	
Magnesium	11.8	0.0653		"	"	"	"	"	"	
Sodium	614	0.0653		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/21/23 13:20**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	17.2	0.00100		units	1	BGB0746	02/23/23	02/23/23	Calculation	

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

Date Sampled: **02/21/23 13:20**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	76.5			%	1	BGB0698	02/22/23	02/22/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/21/23 13:20**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.60	0.0100	0.00100	mmhos/cm	1	BGB0701	02/22/23	02/22/23	EPA 120.1	

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

Date Sampled: **02/21/23 13:20**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.90			pH Units	1	BGB0702	02/22/23	02/22/23	EPA 9045D	

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
02/27/23 12:35

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

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

#### Batch BGB0673 - EPA 5030 Soil MS

##### Blank (BGB0673-BLK1)

Prepared: 02/21/23 Analyzed: 02/22/23

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	0.0174	0.50	"								
Surrogate: 1,2-Dichloroethane-d4	0.0319		"	0.0400		79.7	50-150				
Surrogate: Toluene-d8	0.0375		"	0.0400		93.7	50-150				
Surrogate: 4-Bromofluorobenzene	0.0376		"	0.0400		94.0	50-150				

##### Blank (BGB0673-BLK2)

Prepared: 02/21/23 Analyzed: 02/22/23

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	0.0352		"	0.0400		88.0	50-150				
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150				
Surrogate: 4-Bromofluorobenzene	0.0435		"	0.0400		109	50-150				

##### LCS (BGB0673-BS1)

Prepared: 02/21/23 Analyzed: 02/22/23

Benzene	0.0921	0.0020	mg/kg	0.100		92.1	70-130				
Toluene	0.0865	0.0050	"	0.100		86.5	70-130				
Ethylbenzene	0.104	0.0050	"	0.100		104	70-130				
m,p-Xylene	0.206	0.010	"	0.200		103	70-130				
o-Xylene	0.0966	0.0050	"	0.100		96.6	70-130				
1,2,4-Trimethylbenzene	0.0968	0.0050	"	0.100		96.8	70-130				
1,3,5-Trimethylbenzene	0.102	0.0050	"	0.100		102	70-130				
Naphthalene	0.0957	0.0038	"	0.100		95.7	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0283		"	0.0400		70.8	50-150				
Surrogate: Toluene-d8	0.0372		"	0.0400		93.0	50-150				
Surrogate: 4-Bromofluorobenzene	0.0357		"	0.0400		89.2	50-150				

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

Reported:  
02/27/23 12:35

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

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

**Batch BGB0673 - EPA 5030 Soil MS**

**LCS (BGB0673-BS2)**

Prepared: 02/21/23 Analyzed: 02/22/23

Benzene	0.116	0.0020	mg/kg	0.100		116	70-130			
Toluene	0.121	0.0050	"	0.100		121	70-130			
Ethylbenzene	0.124	0.0050	"	0.100		124	70-130			
m,p-Xylene	0.243	0.010	"	0.200		122	70-130			
o-Xylene	0.115	0.0050	"	0.100		115	70-130			
1,2,4-Trimethylbenzene	0.126	0.0050	"	0.100		126	70-130			
1,3,5-Trimethylbenzene	0.126	0.0050	"	0.100		126	70-130			
Naphthalene	0.0796	0.0038	"	0.100		79.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0358		"	0.0400		89.6	50-150			
Surrogate: Toluene-d8	0.0410		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	50-150			

**Matrix Spike (BGB0673-MS1)**

Source: 2302398-01

Prepared: 02/21/23 Analyzed: 02/22/23

Benzene	0.0878	0.0020	mg/kg	0.100	ND	87.8	70-130			
Toluene	0.0817	0.0050	"	0.100	ND	81.7	70-130			
Ethylbenzene	0.0985	0.0050	"	0.100	ND	98.5	70-130			
m,p-Xylene	0.196	0.010	"	0.200	ND	98.2	70-130			
o-Xylene	0.0937	0.0050	"	0.100	ND	93.7	70-130			
1,2,4-Trimethylbenzene	0.0946	0.0050	"	0.100	ND	94.6	70-130			
1,3,5-Trimethylbenzene	0.0972	0.0050	"	0.100	ND	97.2	70-130			
Naphthalene	0.0719	0.0038	"	0.100	ND	71.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0297		"	0.0400		74.3	50-150			
Surrogate: Toluene-d8	0.0372		"	0.0400		93.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0358		"	0.0400		89.5	50-150			

**Matrix Spike (BGB0673-MS2)**

Source: 2302424-05

Prepared: 02/21/23 Analyzed: 02/22/23

Benzene	0.115	0.0020	mg/kg	0.100	ND	115	70-130			
Toluene	0.120	0.0050	"	0.100	ND	120	70-130			
Ethylbenzene	0.119	0.0050	"	0.100	ND	119	70-130			
m,p-Xylene	0.237	0.010	"	0.200	ND	119	70-130			
o-Xylene	0.113	0.0050	"	0.100	ND	113	70-130			
1,2,4-Trimethylbenzene	0.126	0.0050	"	0.100	ND	126	70-130			
1,3,5-Trimethylbenzene	0.125	0.0050	"	0.100	ND	125	70-130			
Naphthalene	0.0852	0.0038	"	0.100	ND	85.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0367		"	0.0400		91.6	50-150			
Surrogate: Toluene-d8	0.0411		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0406		"	0.0400		102	50-150			

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650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

Reported:  
02/27/23 12:35

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

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

**Batch BGB0673 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (BGB0673-MSD1)</b>	<b>Source: 2302398-01</b>			<b>Prepared: 02/21/23 Analyzed: 02/22/23</b>						
Benzene	0.0936	0.0020	mg/kg	0.100	ND	93.6	70-130	6.35	30	
Toluene	0.0874	0.0050	"	0.100	ND	87.4	70-130	6.85	30	
Ethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130	3.71	30	
m,p-Xylene	0.203	0.010	"	0.200	ND	102	70-130	3.54	30	
o-Xylene	0.0971	0.0050	"	0.100	ND	97.1	70-130	3.59	30	
1,2,4-Trimethylbenzene	0.0978	0.0050	"	0.100	ND	97.8	70-130	3.31	30	
1,3,5-Trimethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130	4.49	30	
Naphthalene	0.0751	0.0038	"	0.100	ND	75.1	70-130	4.28	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0299</i>		<i>"</i>	<i>0.0400</i>		<i>74.7</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0376</i>		<i>"</i>	<i>0.0400</i>		<i>94.0</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0368</i>		<i>"</i>	<i>0.0400</i>		<i>92.0</i>	<i>50-150</i>			

<b>Matrix Spike Dup (BGB0673-MSD2)</b>	<b>Source: 2302424-05</b>			<b>Prepared: 02/21/23 Analyzed: 02/22/23</b>						
Benzene	0.115	0.0020	mg/kg	0.100	ND	115	70-130	0.105	30	
Toluene	0.120	0.0050	"	0.100	ND	120	70-130	0.324	30	
Ethylbenzene	0.123	0.0050	"	0.100	ND	123	70-130	3.40	30	
m,p-Xylene	0.244	0.010	"	0.200	ND	122	70-130	2.81	30	
o-Xylene	0.113	0.0050	"	0.100	ND	113	70-130	0.0531	30	
1,2,4-Trimethylbenzene	0.126	0.0050	"	0.100	ND	126	70-130	0.143	30	
1,3,5-Trimethylbenzene	0.129	0.0050	"	0.100	ND	129	70-130	2.91	30	
Naphthalene	0.0849	0.0038	"	0.100	ND	84.9	70-130	0.388	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0357</i>		<i>"</i>	<i>0.0400</i>		<i>89.2</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0415</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0410</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>			

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
02/27/23 12:35

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

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

**Batch BGB0674 - EPA 3550A**

**Blank (BGB0674-BLK1)**

Prepared: 02/21/23 Analyzed: 02/22/23

C10-C28 (DRO)	12.7	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	11.1		"	12.5		88.8	30-150				

**Blank (BGB0674-BLK2)**

Prepared: 02/21/23 Analyzed: 02/22/23

C10-C28 (DRO)	16.4	50	mg/kg								
C28-C36 (ORO)	15.8	50	"								
Surrogate: <i>o</i> -Terphenyl	13.5		"	12.5		108	30-150				

**LCS (BGB0674-BS1)**

Prepared: 02/21/23 Analyzed: 02/22/23

C10-C28 (DRO)	456	50	mg/kg	500		91.3	70-130				
Surrogate: <i>o</i> -Terphenyl	11.3		"	12.5		90.3	30-150				

**LCS (BGB0674-BS2)**

Prepared: 02/21/23 Analyzed: 02/22/23

C10-C28 (DRO)	462	50	mg/kg	500		92.3	70-130				
Surrogate: <i>o</i> -Terphenyl	13.8		"	12.5		111	30-150				

**Matrix Spike (BGB0674-MS1)**

Source: 2302398-01

Prepared: 02/21/23 Analyzed: 02/22/23

C10-C28 (DRO)	413	50	mg/kg	500	10.6	80.5	70-130				
Surrogate: <i>o</i> -Terphenyl	11.2		"	12.5		89.8	30-150				

**Matrix Spike (BGB0674-MS2)**

Source: 2302424-05

Prepared: 02/21/23 Analyzed: 02/22/23

C10-C28 (DRO)	484	50	mg/kg	500	15.0	93.8	70-130				
Surrogate: <i>o</i> -Terphenyl	15.5		"	12.5		124	30-150				

**Matrix Spike Dup (BGB0674-MSD1)**

Source: 2302398-01

Prepared: 02/21/23 Analyzed: 02/22/23

C10-C28 (DRO)	425	50	mg/kg	500	10.6	82.9	70-130	2.80	20		
Surrogate: <i>o</i> -Terphenyl	11.6		"	12.5		92.6	30-150				

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
02/27/23 12:35

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

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

**Batch BGB0674 - EPA 3550A**

**Matrix Spike Dup (BGB0674-MSD2)**

Source: 2302424-05

Prepared: 02/21/23 Analyzed: 02/22/23

C10-C28 (DRO)	433	50	mg/kg	500	15.0	83.7	70-130	11.0	20	
Surrogate: <i>o</i> -Terphenyl	13.6		"	12.5		109	30-150			

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

Reported:  
02/27/23 12:35

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGB0684 - EPA 5030 Soil MS

Blank (BGB0684-BLK1)

Prepared & Analyzed: 02/22/23

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	0.0316		"	0.0333		94.9		40-150		
Surrogate: Fluoranthene-d10	0.0322		"	0.0333		96.7		40-150		

LCS (BGB0684-BS1)

Prepared & Analyzed: 02/22/23

Acenaphthene	0.0294	0.00500	mg/kg	0.0333		88.1		31-137		
Anthracene	0.0303	0.00500	"	0.0333		90.8		30-120		
Benzo (a) anthracene	0.0320	0.00500	"	0.0333		96.0		30-120		
Benzo (a) pyrene	0.0324	0.00500	"	0.0333		97.3		30-120		
Benzo (b) fluoranthene	0.0331	0.00500	"	0.0333		99.2		30-120		
Benzo (k) fluoranthene	0.0335	0.00500	"	0.0333		101		30-120		
Chrysene	0.0322	0.00500	"	0.0333		96.6		30-120		
Dibenz (a,h) anthracene	0.0266	0.00500	"	0.0333		79.7		30-120		
Fluoranthene	0.0308	0.00500	"	0.0333		92.3		30-120		
Fluorene	0.0289	0.00500	"	0.0333		86.6		30-120		
Indeno (1,2,3-cd) pyrene	0.0305	0.00500	"	0.0333		91.6		30-120		
Pyrene	0.0347	0.00500	"	0.0333		104		35-142		
1-Methylnaphthalene	0.0333	0.00500	"	0.0333		99.8		35-142		
2-Methylnaphthalene	0.0274	0.00500	"	0.0333		82.3		35-142		
Surrogate: 2-Methylnaphthalene-d10	0.0298		"	0.0333		89.5		40-150		
Surrogate: Fluoranthene-d10	0.0313		"	0.0333		93.8		40-150		

Summit Scientific

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Project: Cox PC GK26-99HZ

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

Reported:  
02/27/23 12:35

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGB0684 - EPA 5030 Soil MS

Matrix Spike (BGB0684-MS1)	Source: 2302351-29			Prepared & Analyzed: 02/22/23						
Acenaphthene	0.0220	0.00500	mg/kg	0.0333	ND	66.0	31-137			
Anthracene	0.0218	0.00500	"	0.0333	ND	65.3	30-120			
Benzo (a) anthracene	0.0247	0.00500	"	0.0333	ND	74.1	30-120			
Benzo (a) pyrene	0.0244	0.00500	"	0.0333	ND	73.2	30-120			
Benzo (b) fluoranthene	0.0256	0.00500	"	0.0333	ND	76.9	30-120			
Benzo (k) fluoranthene	0.0247	0.00500	"	0.0333	ND	74.1	30-120			
Chrysene	0.0233	0.00500	"	0.0333	ND	69.9	30-120			
Dibenz (a,h) anthracene	0.0191	0.00500	"	0.0333	ND	57.3	30-120			
Fluoranthene	0.0215	0.00500	"	0.0333	ND	64.6	30-120			
Fluorene	0.0211	0.00500	"	0.0333	ND	63.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0221	0.00500	"	0.0333	ND	66.4	30-120			
Pyrene	0.0261	0.00500	"	0.0333	ND	78.3	35-142			
1-Methylnaphthalene	0.0251	0.00500	"	0.0333	ND	75.4	15-130			
2-Methylnaphthalene	0.0209	0.00500	"	0.0333	ND	62.8	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0233		"	0.0333		70.0	40-150			
Surrogate: Fluoranthene-d10	0.0213		"	0.0333		63.8	40-150			

Matrix Spike Dup (BGB0684-MSD1)	Source: 2302351-29			Prepared & Analyzed: 02/22/23						
Acenaphthene	0.0219	0.00500	mg/kg	0.0333	ND	65.6	31-137	0.482	30	
Anthracene	0.0232	0.00500	"	0.0333	ND	69.7	30-120	6.56	30	
Benzo (a) anthracene	0.0256	0.00500	"	0.0333	ND	76.9	30-120	3.67	30	
Benzo (a) pyrene	0.0247	0.00500	"	0.0333	ND	74.1	30-120	1.22	30	
Benzo (b) fluoranthene	0.0266	0.00500	"	0.0333	ND	79.9	30-120	3.86	30	
Benzo (k) fluoranthene	0.0259	0.00500	"	0.0333	ND	77.6	30-120	4.61	30	
Chrysene	0.0241	0.00500	"	0.0333	ND	72.3	30-120	3.43	30	
Dibenz (a,h) anthracene	0.0192	0.00500	"	0.0333	ND	57.7	30-120	0.563	30	
Fluoranthene	0.0233	0.00500	"	0.0333	ND	69.9	30-120	7.84	30	
Fluorene	0.0216	0.00500	"	0.0333	ND	64.9	30-120	2.48	30	
Indeno (1,2,3-cd) pyrene	0.0224	0.00500	"	0.0333	ND	67.3	30-120	1.42	30	
Pyrene	0.0273	0.00500	"	0.0333	ND	81.8	35-142	4.42	30	
1-Methylnaphthalene	0.0227	0.00500	"	0.0333	ND	68.1	15-130	10.2	50	
2-Methylnaphthalene	0.0224	0.00500	"	0.0333	ND	67.2	15-130	6.78	50	
Surrogate: 2-Methylnaphthalene-d10	0.0252		"	0.0333		75.6	40-150			
Surrogate: Fluoranthene-d10	0.0239		"	0.0333		71.6	40-150			

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
02/27/23 12:35

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

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

**Batch BGB0675 - EPA 3050B**

**Blank (BGB0675-BLK1)**

Prepared: 02/21/23 Analyzed: 02/23/23

Boron ND 0.0100 mg/L

**LCS (BGB0675-BS1)**

Prepared: 02/21/23 Analyzed: 02/23/23

Boron 4.43 0.0100 mg/L 5.00 88.6 80-120

**Duplicate (BGB0675-DUP1)**

Source: 2302399-01

Prepared: 02/21/23 Analyzed: 02/23/23

Boron 0.344 0.0100 mg/L 0.451 27.0 20 QR-03

**Matrix Spike (BGB0675-MS1)**

Source: 2302399-01

Prepared: 02/21/23 Analyzed: 02/23/23

Boron 4.83 0.0100 mg/L 5.00 0.451 87.5 75-125

**Matrix Spike Dup (BGB0675-MSD1)**

Source: 2302399-01

Prepared: 02/21/23 Analyzed: 02/23/23

Boron 4.38 0.0100 mg/L 5.00 0.451 78.6 75-125 9.67 25

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Civitas Resources  
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Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
02/27/23 12:35

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

**Summit Scientific**

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

**Batch BGB0677 - General Preparation**

**Blank (BGB0677-BLK1)**

Prepared: 02/21/23 Analyzed: 02/23/23

Calcium	0.0289	0.0500	mg/L wet							
Magnesium	0.00313	0.0500	"							
Sodium	ND	0.0500	"							

**LCS (BGB0677-BS1)**

Prepared: 02/21/23 Analyzed: 02/23/23

Calcium	5.62	0.0500	mg/L wet	5.00	112	70-130				
Magnesium	5.25	0.0500	"	5.00	105	70-130				
Sodium	4.98	0.0500	"	5.00	99.7	70-130				

Summit Scientific

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Civitas Resources  
 650 Southgate Drive  
 Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
 02/27/23 12:35

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

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

**Batch BGB0698 - General Preparation**

<b>Duplicate (BGB0698-DUP1)</b>		<b>Source: 2302365-01</b>			<b>Prepared &amp; Analyzed: 02/22/23</b>					
% Solids	82.2		%		81.4			0.959	20	

Summit Scientific

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Civitas Resources  
 650 Southgate Drive  
 Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
 02/27/23 12:35

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

**Summit Scientific**

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

**Batch BGB0701 - General Preparation**

**Blank (BGB0701-BLK1)**

Prepared & Analyzed: 02/22/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BGB0701-BS1)**

Prepared & Analyzed: 02/22/23

Specific Conductance (EC) 0.148 0.0100 mmhos/cm 0.150 98.9 95-105

**Duplicate (BGB0701-DUP1)**

Source: 2302399-01

Prepared & Analyzed: 02/22/23

Specific Conductance (EC) 0.619 0.0100 mmhos/cm 0.629 1.52 20

Summit Scientific

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Civitas Resources  
 650 Southgate Drive  
 Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
 02/27/23 12:35

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

**Summit Scientific**

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

**Batch BGB0702 - General Preparation**

**LCS (BGB0702-BS1)**

Prepared & Analyzed: 02/22/23

pH 9.20 pH Units 9.18 100 95-105

**Duplicate (BGB0702-DUP1)**

Source: 2302399-01

Prepared & Analyzed: 02/22/23

pH 9.02 pH Units 8.83 2.13 20

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Cox PC GK26-99HZ

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

**Reported:**  
02/27/23 12:35

### Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- 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