



FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map (8/23/23)

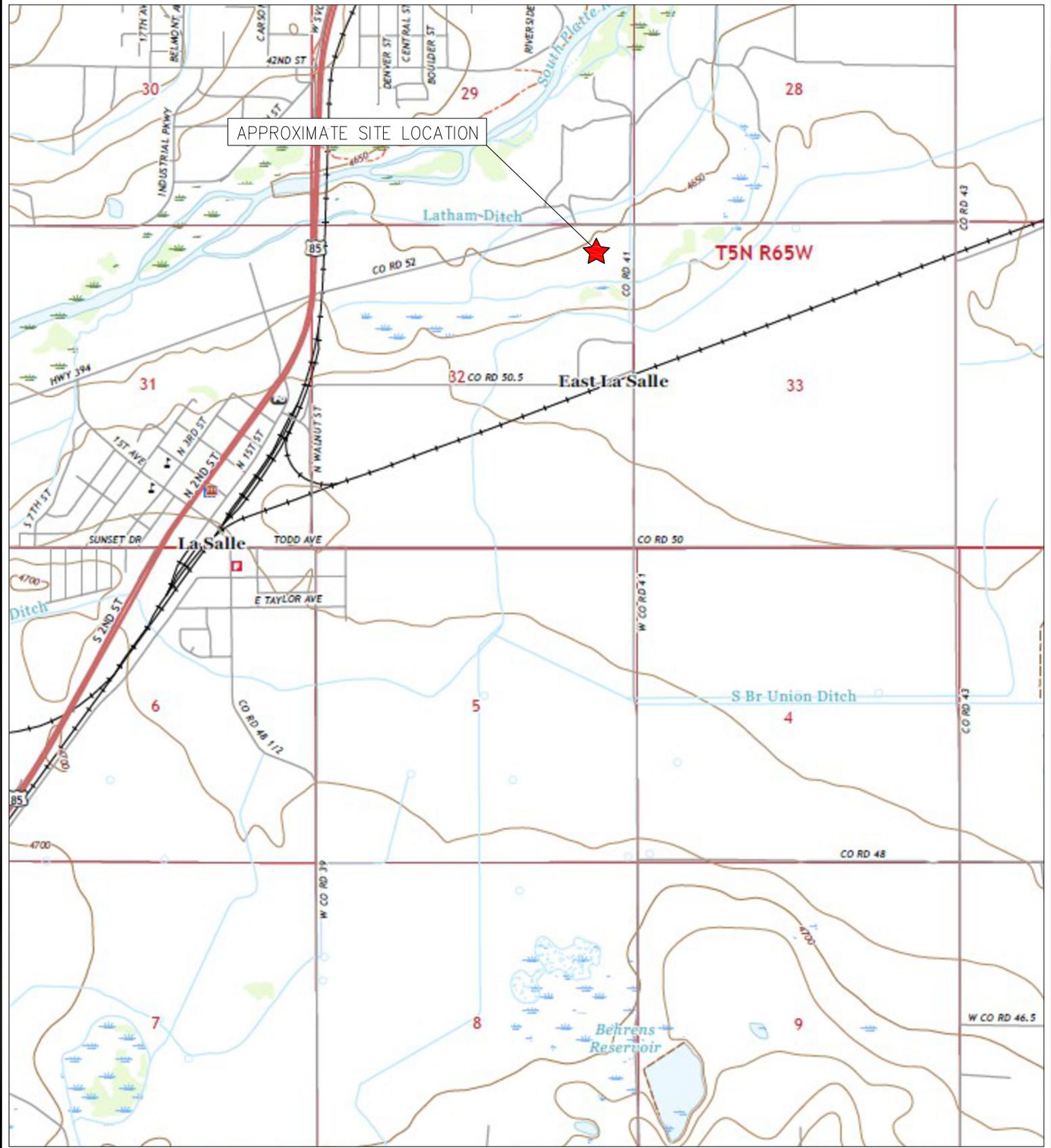
Figure 4: Polycyclic Aromatic Hydrocarbons Map (8/23/23)

Figure 5: Metals in Soil Map (8/23/23)

Figure 6: Groundwater Analytical Map (9/19/23)

Figure 7: Inorganic Groundwater Parameters Map (9/19/23)

Figure 8: Groundwater Elevation Map (9/19/23)



TOPOGRAPHIC SITE LOCATION MAP
 McBAIN (BAINBRIDGE) #1
 HISTORICAL RELEASE
 40.361784 / -104.680276
 NE 1/4 NE 1/4 SEC.32 T5N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-12032
 REMEDIATION # 27419



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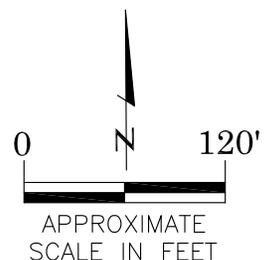
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP
 LA SALLE, CO QUADRANGLE 2022

FIGURE NO. 1



LEGEND

 FORMER McBAIN (BAINBRIDGE) #1 WELLHEAD (PLUGGED AND ABANDONED)



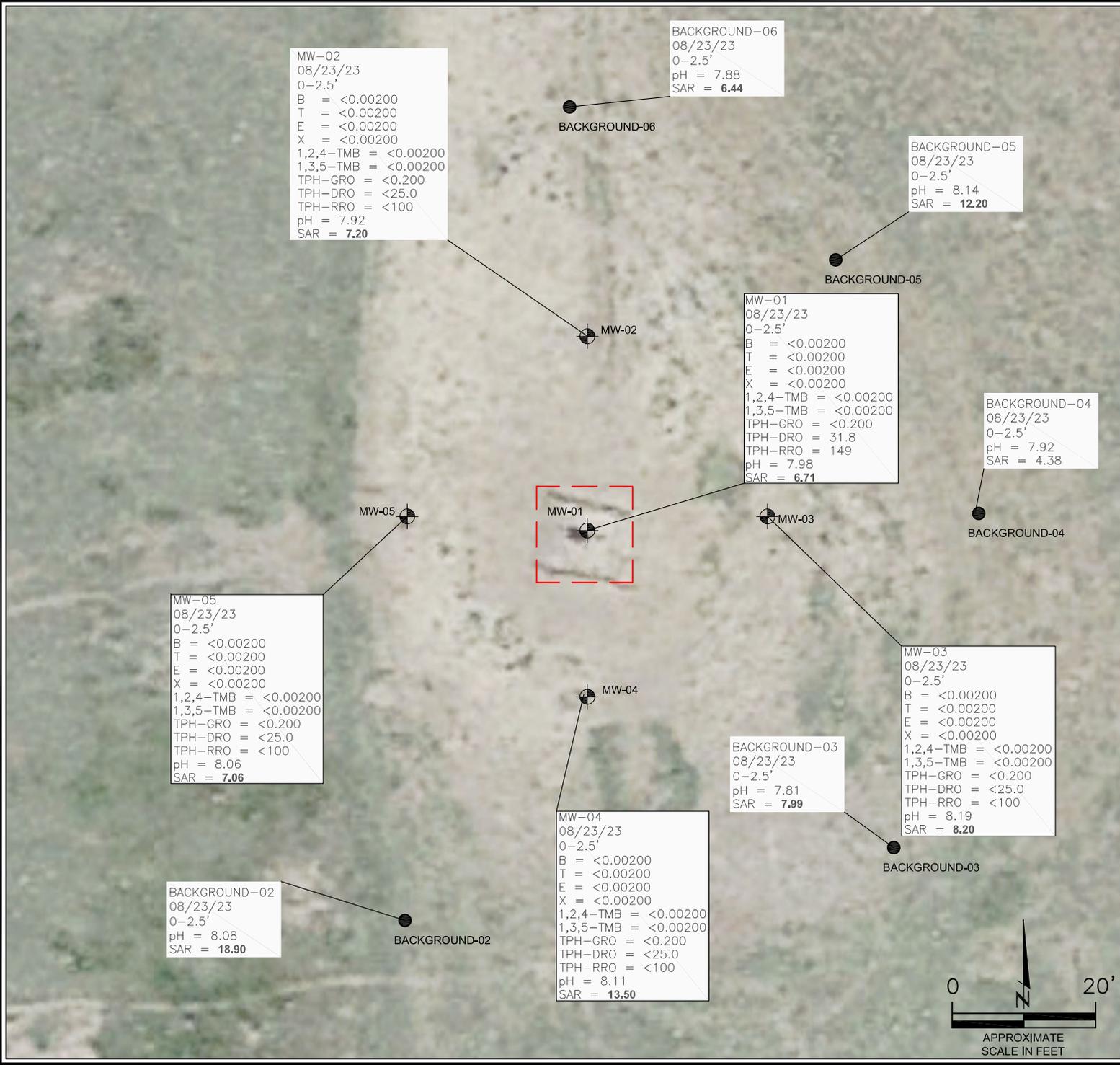
AERIAL SITE LOCATION MAP
McBAIN (BAINBRIDGE) #1
HSITORICAL RELEASE
40.361784 / -104.680276
NE $\frac{1}{4}$ NE $\frac{1}{4}$ SEC.32 T5N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-12032
REMEDATION # 27419

FIGURE NO.
2

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LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- ⊕ MONITORING WELL LOCATIONS
- APPROXIMATE BACKGROUND SAMPLE LOCATIONS

PARAMETERS

GROUNDWATER SAMPLE LOCATION
DATE

B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (mg/kg)
1,2,4-TMB = 1,2,4-TRIMETHYLBENZENE (mg/kg)
1,3,5-TMB = 1,3,5-TRIMETHYLBENZENE (mg/kg)
TPH-GRO = GASOLINE RANGE ORGANICS (mg/kg)
TPH-DRO = DIESEL RANGE ORGANICS (mg/kg)
TPH-RRO = RESIDUAL RANGE ORGANICS (mg/kg)
SAR = SODIUM ADSORPTION RATIO (SAR)

mg/kg = MILLIGRAMS PER KILOGRAMS

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

ECMC = ENERGY AND CARBON MANAGEMENT COMMISSION

SOIL ANALYTICAL MAP
(08/23/23)
McBAIN (BAINBRIDGE) #1
HISTORICAL RELEASE
40.361784 / -104.680276
NE¼ NE¼ SEC.32 T5N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-12032
REMEDIATION # 27419

FIGURE NO. 3

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LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- MONITORING WELL LOCATIONS

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

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

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

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

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

POLYCYCLIC AROMATIC HYDROCARBONS ANALYTICAL MAP
(08/23/23)
McBAIN (BAINBRIDGE) #1
HISTORICAL RELEASE
40.361784 / -104.680276
NE ¼ NE ¼ SEC.32 T5N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-12032
REMEDATION # 27419

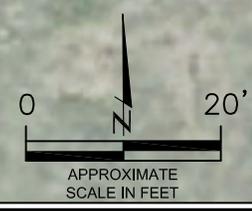


FIGURE NO.
4

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LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
-  MONITORING WELL LOCATIONS
-  APPROXIMATE BACKGROUND SAMPLE LOCATIONS

PARAMETERS

SAMPLE LOCATION
 DATE SAMPLE COLLECTED
 APPROXIMATE DEPTH
 Arsenic = (mg/kg)
 Barium = (mg/kg)
 Lead = (mg/kg)
 Selenium = (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.

ELEVATED METALS ARE NATURALLY OCCURRING IN COLORADO. LOCAL CLEAN-UP LEVELS ARE 1.25*BACKGROUND HIGH CONCENTRATIONS, WHERE APPLICABLE.

VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS AND APPLICABLE LOCAL CLEAN-UP LEVELS.

*VALUES EXCEED ECMC 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.

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METALS IN SOIL MAP
 (08/23/23)

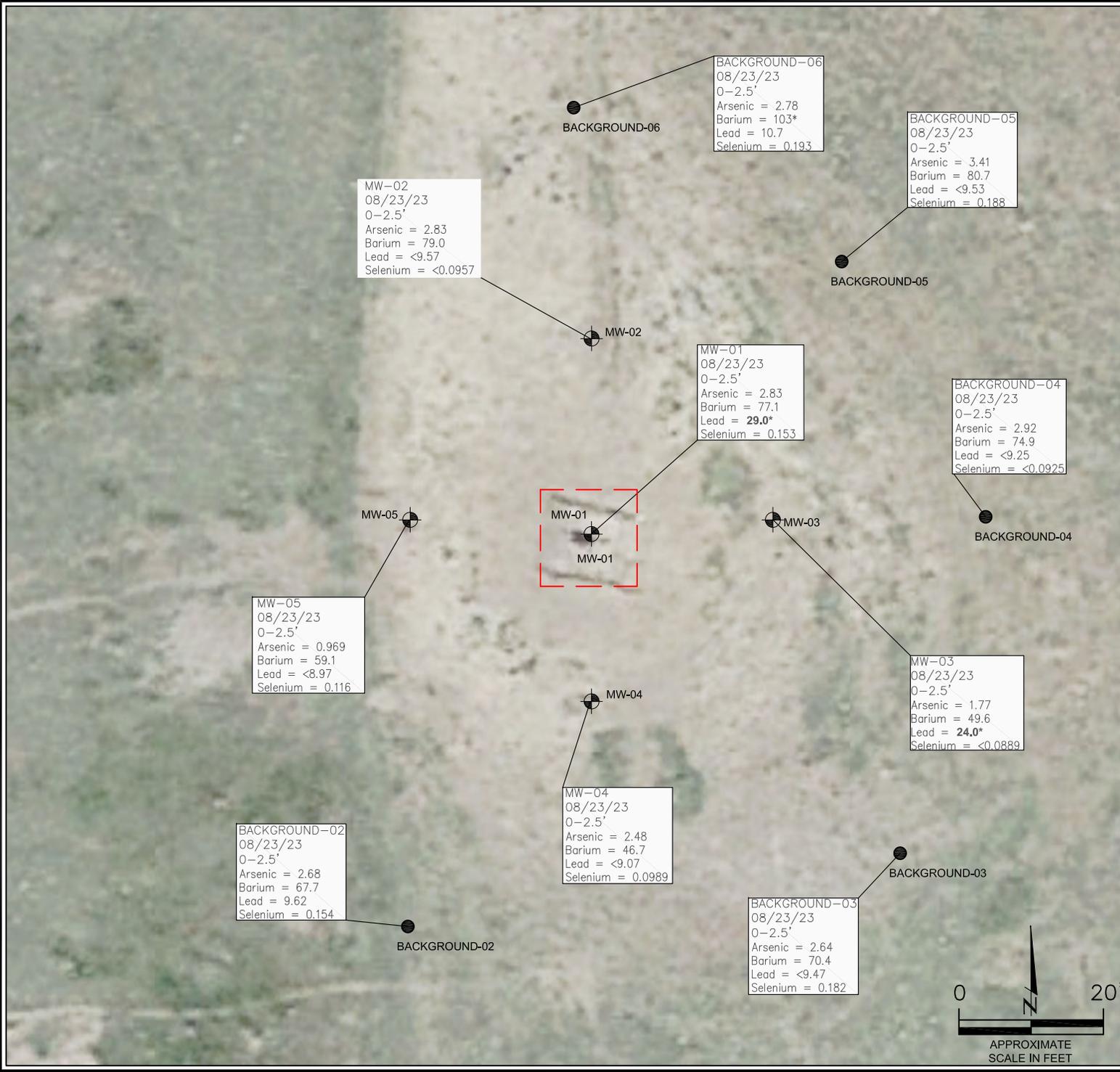
McBAIN (BAINBRIDGE) #1
 HISTORICAL RELEASE
 40.361784 / -104.680276
 NE¼ NE¼ SEC.32 T5N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-12032
 REMEDIATION # 27419

FIGURE NO.
5

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BACKGROUND-06
 08/23/23
 0-2.5'
 Arsenic = 2.78
 Barium = 103*
 Lead = 10.7
 Selenium = 0.193

BACKGROUND-05
 08/23/23
 0-2.5'
 Arsenic = 3.41
 Barium = 80.7
 Lead = <9.53
 Selenium = 0.188

MW-02
 08/23/23
 0-2.5'
 Arsenic = 2.83
 Barium = 79.0
 Lead = <9.57
 Selenium = <0.0957

MW-01
 08/23/23
 0-2.5'
 Arsenic = 2.83
 Barium = 77.1
 Lead = **29.0***
 Selenium = 0.153

BACKGROUND-04
 08/23/23
 0-2.5'
 Arsenic = 2.92
 Barium = 74.9
 Lead = <9.25
 Selenium = <0.0925

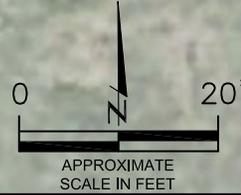
MW-05
 08/23/23
 0-2.5'
 Arsenic = 0.969
 Barium = 59.1
 Lead = <8.97
 Selenium = 0.116

MW-03
 08/23/23
 0-2.5'
 Arsenic = 1.77
 Barium = 49.6
 Lead = **24.0***
 Selenium = <0.0889

MW-04
 08/23/23
 0-2.5'
 Arsenic = 2.48
 Barium = 46.7
 Lead = <9.07
 Selenium = 0.0989

BACKGROUND-02
 08/23/23
 0-2.5'
 Arsenic = 2.68
 Barium = 67.7
 Lead = 9.62
 Selenium = 0.154

BACKGROUND-03
 08/23/23
 0-2.5'
 Arsenic = 2.64
 Barium = 70.4
 Lead = <9.47
 Selenium = 0.182



LEGEND

--- WELLHEAD ASSESSMENT BOUNDARIES

⊕ MONITORING WELL LOCATIONS

PARAMETERS

GROUNDWATER SAMPLE LOCATION
DATE

B = BENZENE (µg/L)
T = TOLUENE (µg/L)
E = ETHYLBENZENE (µg/L)
X = TOTAL XYLENES (µg/L)
N = NAPHTHALENE (µg/L)
1,2,4-TMB = 1,2,4-TRIMETHYLBENZENE (µg/L)
1,3,5-TMB = 1,3,5-TRIMETHYLBENZENE (µg/L)
1-MN = 1-METHYL-NAPHTHALENE
2-MN = 2-METHYL-NAPHTHALENE

µg/L = MICROGRAMS PER LITER

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

ECMC = ENERGY AND CARBON MANAGEMENT COMMISSION

GROUNDWATER ANALYTICAL MAP

McBAIN (BAINBRIDGE) #1
HISTORICAL RELEASE
40.361784 / -104.680276
NE¼ NE¼ SEC.32 T5N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-12032
REMEDATION # 27419

FIGURE NO.

6

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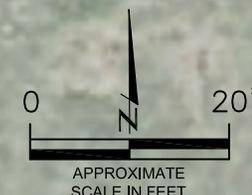
MW-02
09/19/23
B = <1.00
T = <1.00
E = <1.00
X = <1.00
N = <2.00
1,2,4-TMB = <2.00
1,3,5-TMB = <2.00
1-MN = <0.02
2-MN = <0.02

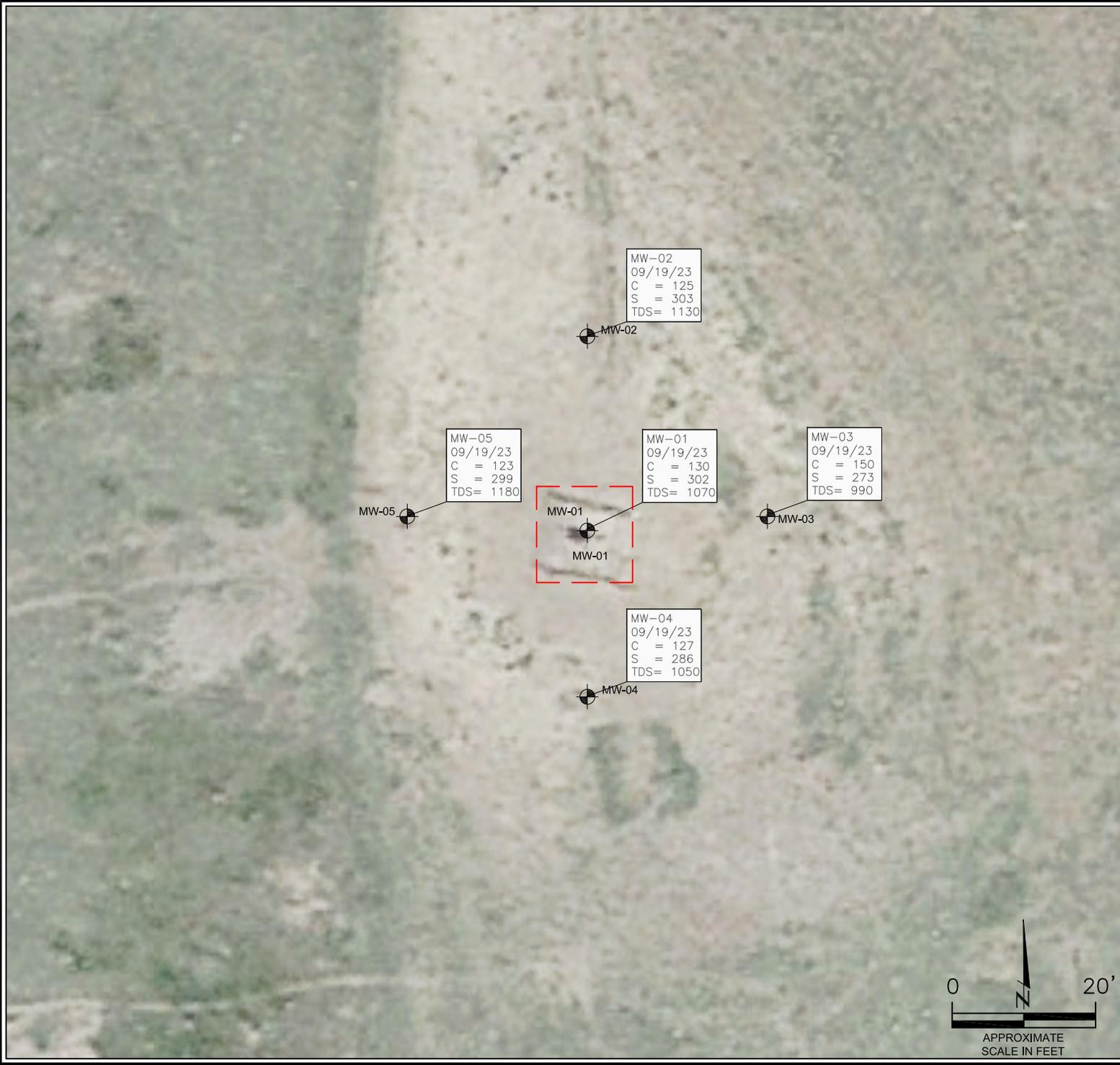
MW-01
09/19/23
B = <1.00
T = <1.00
E = <1.00
X = <1.00
N = <2.00
1,2,4-TMB = <2.00
1,3,5-TMB = <2.00
1-MN = <0.02
2-MN = <0.02

MW-05
09/19/23
B = <1.00
T = <1.00
E = <1.00
X = <1.00
N = <2.00
1,2,4-TMB = <2.00
1,3,5-TMB = <2.00
1-MN = <0.02
2-MN = <0.02

MW-03
09/19/23
B = <1.00
T = <1.00
E = <1.00
X = <1.00
N = <2.00
1,2,4-TMB = <2.00
1,3,5-TMB = <2.00
1-MN = <0.02
2-MN = <0.02

MW-04
09/19/23
B = <1.00
T = <1.00
E = <1.00
X = <1.00
N = <2.00
1,2,4-TMB = <2.00
1,3,5-TMB = <2.00
1-MN = <0.02
2-MN = <0.02





LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- MONITORING WELL LOCATIONS

PARAMETERS

SAMPLE LOCATION
 DATE
 C = CHLORIDE (µg/L)
 S = SULFATE (µg/L)
 TDS = TOTAL DISSOLVED SOLIDS (µg/L)

µg/L = MICROGRAMS PER LITER

NOTE:
 INORGANIC GROUNDWATER SAMPLES WERE COLLECTED 09/19/23.

INORGANIC GROUNDWATER PARAMETERS OBSERVED IN UP-GRADIENT MONITORING WELL MW-04 WERE USED IN THE DETERMINATION OF LOCAL BACKGROUND LEVELS AT THE SITE. LOCAL "REGULATORY LIMITS" ARE 1.25*BACKGROUND.

VALUES PRESENTED IN **BOLD** EXCEED THE ECMC TABLE 915-1 REGULATORY LIMITS FOR THAT COMPOUND

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

NOTE: AERIAL DOES NOT REFLECT CURRENT SITE CONDITIONS. ALL FACILITIES WERE REMOVED DURING SITE DECOMMISSIONING ACTIVITIES.

INORGANIC GROUNDWATER PARAMETERS MAP (09/19/23)

McBAIN (BAINBRIDGE) #1
 HISTORICAL RELEASE
 40.361784 / -104.680276
 NE¼ NE¼ SEC.32 T5N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-12032
 REMEDIATION # 27419

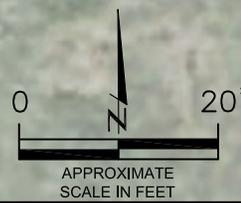
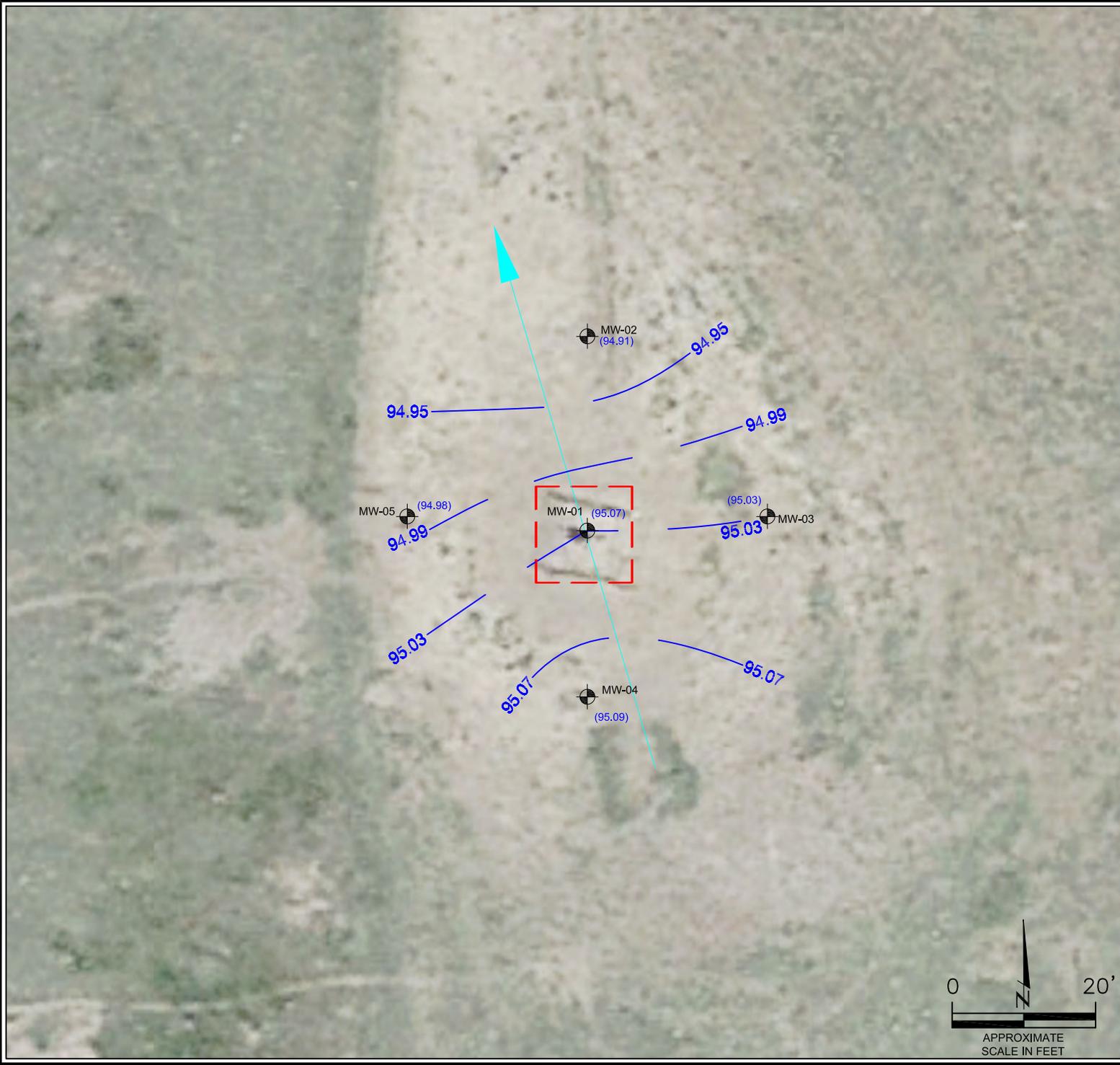


FIGURE NO.
7
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LEGEND

- - - WELLHEAD ASSESSMENT BOUNDARIES
-  MONITORING WELL LOCATIONS
- (92.15) RELATIVE GROUNDWATER ELEVATION (FT.)
- - - INFERRED GROUNDWATER ELEVATION CONTOUR (FT.)
-  APPROXIMATE GROUNDWATER FLOW DIRECTION

FT. = FEET

NOTE:
GROUNDWATER ELEVATION DATA WAS COLLECTED FROM ALL MONITORING WELLS ON 09/19/23.

GROUNDWATER ELEVATION MAP
(09/19/23)

McBAIN (BAINBRIDGE) #1
HISTORICAL RELEASE
40.361784 / -104.680276
NE¼ NE¼ SEC.32 T5N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-12032
REMEDATION # 27419

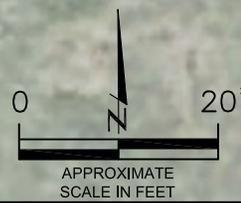


FIGURE NO.
8
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TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

Table 3: Groundwater Analytical Results Summary

Table 4: Inorganic Groundwater Parameters Summary

Table 5: Groundwater Elevation Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
McBAIN (BAINBRIDGE) #1
HISTORICAL RELEASE
40.361784 / -104.680276
NE¼ NE¼ SEC.32 T5N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-12032
REMEDIATION # 27419

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 4' (40.361808 / -104.680268)	04/25/23	4	291.5	Y
WH-SS-02 @ 4' (40.361789 / -104.680246)	04/25/23	4	62.9	Y
WH-SS-03 @ 4' (40.361775 / -104.680268)	04/25/23	4	185.3	Y
WH-SS-04 @ 4' (40.361789 / -104.680290)	04/25/23	4	403.5	Y
Background-01 @ 2' (40.361789 / -104.680158)	04/25/23	2	0.2	Y
MW-01 @ 0-2.5' (40.361781 / -104.680281)	08/23/23	0-2.5	0.8	Y
MW-02 @ 0-2.5' (40.361868 / -104.680268)	08/23/23	0-2.5	0.4	Y
MW-03 @ 0-2.5' (40.361787 / -104.680164)	08/23/23	0-2.5	1.5	Y
MW-04 @ 0-2.5' (40.361710 / -104.680258)	08/23/23	0-2.5	1.3	Y
MW-05 @ 0-2.5' (40.6361785 / -104.680369)	08/23/23	0-2.5	0.4	Y
Background-02 @ 0-2.5' (40.361667 / -104.680331)	08/23/23	0-2.5	1.8	Y
Background-03 @ 0-2.5' (40.361676 / -104.680120)	08/23/23	0-2.5	2.3	Y
Background-04 @ 0-2.5' (40.361801 / -104.680092)	08/23/23	0-2.5	2.6	Y
Background-05 @ 0-2.5' (40.361899 / -104.680145)	08/23/23	0-2.5	2.1	Y
Background-06 @ 0-2.5' (40.361946 / -104.680276)	08/23/23	0-2.5	2.1	Y

(Y/N) = Yes or No
ppm-v = parts per million by volume
PID = Photoionization Detector



TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
McBAIN (BAINBRIDGE) #1
HISTORICAL RELEASE
40.361784 / -104.680276
NE¼ NE¼ SEC.32 T5N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-12032
REMEDATION # 27419

Sample Location		WH-SS-01 @ 4'	WH-SS-02 @ 4'	WH-SS-03 @ 4'	WH-SS-04 @ 4'	Background-01 @ 2'
(Latitude / Longitude)		(40.361808 / -104.680268)	(40.361789 / -104.680246)	(40.361775 / -104.680268)	(40.361789 / -104.680290)	(40.361789 / -104.680158)
Sample Date		4/25/2023	4/25/2023	4/25/2023	4/25/2023	4/25/2023
Sample Depth		4'	4'	4'	4'	2'
PID Reading (ppm-v)		291.5	62.9	185.3	403.5	0.2
Regulatory Limits						
Chemical of Concern	Units	ECMC Table 915-1 RSSLs	ECMC Table 915-1 GSSLs	Local Clean-Up Level		
VOCs						
Benzene	mg/kg	1.2	0.0026	--	<0.00200	<0.00200
Toluene	mg/kg	490	0.69	--	<0.00200	<0.00200
Ethylbenzene	mg/kg	5.8	0.78	--	0.00470	<0.00200
Total Xylenes	mg/kg	58	9.9	--	<0.00200	<0.00200
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	0.00546	0.0247*
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	<0.00200	<0.00200
TOTAL PETROLEUM HYDROCARBONS						
TPH-GRO	mg/kg	500	--	--	<0.200	<0.200
TPH-DRO	mg/kg	500	--	--	214	<25.0
TPH-RRO	mg/kg	500	--	--	125	<100
POLYCYCLIC AROMATIC HYDROCARBONS						
1-Methyl-naphthalene	mg/kg	18	0.006	--	0.00469	<0.00201
2-Methyl-naphthalene	mg/kg	24	0.019	--	0.00613	<0.00201
Acenaphthene	mg/kg	360	0.55	--	0.00908	<0.00067
Anthracene	mg/kg	1800	5.8	--	<0.00067	<0.00067
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	<0.00067	<0.00067
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	<0.00067	<0.00067
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	<0.00067	<0.00067
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	<0.00067	<0.00067
Chrysene	mg/kg	110	9	--	0.000825	<0.00067
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	<0.00067	<0.00067
Fluoranthene	mg/kg	240	8.9	--	<0.00067	<0.00067
Fluorene	mg/kg	240	0.54	--	0.00857	0.000382
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	<0.00067	<0.00067
Naphthalene	mg/kg	2	0.0038	--	0.00433*	<0.00201
Pyrene	mg/kg	180	1.3	--	0.0011	<0.00067
SOIL SUITABILITY (Inorganics)						
Boron	mg/L	2	--	--	1.74	0.745
pH	standard unit	6-8.3	--	--	8.76 (7.94)	8.72 (7.84)
Sodium Adsorption Ratio (SAR)	--	<6	--	--	7.50 (7.48/7.55)	3.95
Specific Conductance (EC)	mmhos/cm	<4	--	--	0.543	0.611
METALS						
Arsenic	mg/kg	0.68	0.29	4.36	3.54	NA
Barium	mg/kg	15000	82	129	151*	NA
Cadmium	mg/kg	71	0.38	--	0.217	NA
Copper	mg/kg	3100	46	--	18.2	NA
Lead	mg/kg	400	14	--	25.4*	NA
Nickel	mg/kg	1500	26	--	9.82	NA
Selenium	mg/kg	390	0.26	--	0.269*	NA
Silver	mg/kg	390	0.8	--	<0.0916	NA
Zinc	mg/kg	23000	370	--	<91.6	NA
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	<1.24**(1)	NA

ECMC = Energy and Carbon Management Commission NA - Not Analyzed VOCs - Volatile Organic Compounds
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 with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit

Elevated metals are naturally occurring in Colorado. The Local Clean-up Levels are 1.25*Background high concentrations, where applicable.

Values presented in **BOLD** exceed ECMC Table 915-1 Regulatory Limits and applicable Local Clean-up Levels. Values presented with asterisk (*) exceed ECMC Table 915-1 GSSLs, only.

Laboratory reruns were completed as applicable on samples with Soil Suitability values outside ECMC Table 915-1 Regulatory Range. Results of the reruns are presented in parentheses.

**Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg. (1) The sample required dilution, raising laboratory detection and reporting limits - sample non-detect.

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
McBAIN (BAINBRIDGE) #1
HISTORICAL RELEASE
40.361784 / -104.680276
NE¼ NE¼ SEC.32 T5N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-12032
REMEDATION # 27419

Sample Location		MW-01 @ 0-2.5'	MW-02 @ 0-2.5'	MW-03 @ 0-2.5'	MW-04 @ 0-2.5'	MW-05 @ 0-2.5'
(Latitude / Longitude)		(40.361781 / -104.680281)	(40.361868 / -104.680268)	(40.361787 / -104.680164)	(40.361710 / -104.680258)	(40.6361785 / -104.680369)
Sample Date		8/23/2023	8/23/2023	8/23/2023	8/23/2023	8/23/2023
Sample Depth		0-2.5'	0-2.5'	0-2.5'	0-2.5'	0-2.5'
PID Reading (ppm-v)		0.8	0.4	1.5	1.3	0.4
Regulatory Limits						
Chemical of Concern	Units	ECMC Table 915-1 RSSLs	ECMC Table 915-1 GSSLs	Local Clean-Up Level		
VOCs						
Benzene	mg/kg	1.2	0.0026	--	<0.00200	<0.00200
Toluene	mg/kg	490	0.69	--	<0.00200	<0.00200
Ethylbenzene	mg/kg	5.8	0.78	--	<0.00200	<0.00200
Total Xylenes	mg/kg	58	9.9	--	<0.00200	<0.00200
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	<0.00200	<0.00200
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	<0.00200	<0.00200
TOTAL PETROLEUM HYDROCARBONS						
TPH-GRO	mg/kg	500	--	--	<0.200	<0.200
TPH-DRO	mg/kg	500	--	--	31.8	<25.0
TPH-RRO	mg/kg	500	--	--	149	<100
POLYCYCLIC AROMATIC HYDROCARBONS						
1-Methyl-naphthalene	mg/kg	18	0.006	--	<0.002	<0.002
2-Methyl-naphthalene	mg/kg	24	0.019	--	<0.002	<0.002
Acenaphthene	mg/kg	360	0.55	--	<0.020	<0.020
Anthracene	mg/kg	1800	5.8	--	<0.020	<0.020
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	<0.005	<0.005
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	<0.020	<0.020
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	<0.020	<0.020
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	<0.020	<0.020
Chrysene	mg/kg	110	9	--	<0.020	<0.020
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	<0.020	<0.020
Fluoranthene	mg/kg	240	8.9	--	<0.020	<0.020
Fluorene	mg/kg	240	0.54	--	<0.020	<0.020
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	<0.020	<0.020
Naphthalene	mg/kg	2	0.0038	--	<0.002	0.002
Pyrene	mg/kg	180	1.3	--	<0.020	<0.020
SOIL SUITABILITY (Inorganics)						
Boron	mg/L	2	--	--	NA	NA
pH	standard unit	6-8.3	--	--	7.98	7.92
Sodium Adsorption Ratio (SAR)	--	<6	--	--	6.71	7.20
Specific Conductance (EC)	mmhos/cm	<4	--	--	NA	NA
METALS						
Arsenic	mg/kg	0.68	0.29	4.36	2.83	2.83
Barium	mg/kg	15000	82	129	77.1	79.0
Cadmium	mg/kg	71	0.38	--	NA	NA
Copper	mg/kg	3100	46	--	NA	NA
Lead	mg/kg	400	14	--	29.0*	<9.57
Nickel	mg/kg	1500	26	--	NA	NA
Selenium	mg/kg	390	0.26	--	0.153	<0.0957
Silver	mg/kg	390	0.8	--	NA	NA
Zinc	mg/kg	23000	370	--	NA	NA
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	NA	NA

ECMC = Energy and Carbon Management Commission NA - Not Analyzed VOCs - Volatile Organic Compounds
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

RSSLs = Residential Soil Screening Levels
GSSLs = Protection of Groundwater Soil Screening Levels
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 the laboratory reporting limit and/or minimum detection limit

Elevated metals are naturally occurring in Colorado. The Local Clean-up Levels are 1.25*Background high concentrations, where applicable.

Values presented in **BOLD** exceed ECMC Table 915-1 Regulatory Limits and applicable Local Clean-up Levels. Values presented with asterisk (*) exceed ECMC Table 915-1 GSSLs, only.

Laboratory reruns were completed as applicable on samples with Soil Suitability values outside ECMC Table 915-1 Regulatory Range. Results of the reruns are presented in parentheses.

**Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg. (1) The sample required dilution, raising laboratory detection and reporting limits - sample non-detect.



TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
McBAIN (BAINBRIDGE) #1
HISTORICAL RELEASE
40.361784 / -104.680276
NE¼ NE¼ SEC.32 T5N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-12032
REMEDATION # 27419

Sample Location (Latitude / Longitude)		Background-02 @ 0-2.5' (40.361667 / -104.680331)	Background-03 @ 0-2.5' (40.361676 / -104.680120)	Background-04 @ 0-2.5' (40.361801 / -104.680092)	Background-05 @ 0-2.5' (40.361899 / -104.680145)	Background-06 @ 0-2.5' (40.361946 / -104.680276)
Sample Date		8/23/2023	8/23/2023	8/23/2023	8/23/2023	8/23/2023
Sample Depth		0-2.5'	0-2.5'	0-2.5'	0-2.5'	0-2.5'
PID Reading (ppm-v)		1.8	2.3	2.6	2.1	2.1
Regulatory Limits						
Chemical of Concern	Units	ECMC Table 915-1 RSSLs	ECMC Table 915-1 GSSLs	Local Clean-Up Level		
VOCs						
Benzene	mg/kg	1.2	0.0026	--	NA	NA
Toluene	mg/kg	490	0.69	--	NA	NA
Ethylbenzene	mg/kg	5.8	0.78	--	NA	NA
Total Xylenes	mg/kg	58	9.9	--	NA	NA
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	NA	NA
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	NA	NA
TOTAL PETROLEUM HYDROCARBONS						
TPH-GRO	mg/kg	500	--	--	NA	NA
TPH-DRO	mg/kg	500	--	--	NA	NA
TPH-RRO	mg/kg	500	--	--	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS						
1-Methyl-naphthalene	mg/kg	18	0.006	--	NA	NA
2-Methyl-naphthalene	mg/kg	24	0.019	--	NA	NA
Acenaphthene	mg/kg	360	0.55	--	NA	NA
Anthracene	mg/kg	1800	5.8	--	NA	NA
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	NA	NA
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	NA	NA
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	NA	NA
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	NA	NA
Chrysene	mg/kg	110	9	--	NA	NA
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	NA	NA
Fluoranthene	mg/kg	240	8.9	--	NA	NA
Fluorene	mg/kg	240	0.54	--	NA	NA
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	NA	NA
Naphthalene	mg/kg	2	0.0038	--	NA	NA
Pyrene	mg/kg	180	1.3	--	NA	NA
SOIL SUITABILITY (Inorganics)						
Boron	mg/L	2	--	--	NA	NA
pH	standard unit	6-8.3	--	--	8.08	7.81
Sodium Adsorption Ratio (SAR)	--	<6	--	--	18.90	7.99
Specific Conductance (EC)	mmhos/cm	<4	--	--	NA	NA
METALS						
Arsenic	mg/kg	0.68	0.29	4.36	2.68	2.64
Barium	mg/kg	15000	82	129	67.7	70.4
Cadmium	mg/kg	71	0.38	--	NA	NA
Copper	mg/kg	3100	46	--	NA	NA
Lead	mg/kg	400	14	--	9.62	<9.47
Nickel	mg/kg	1500	26	--	NA	NA
Selenium	mg/kg	390	0.26	--	0.154	0.182
Silver	mg/kg	390	0.8	--	NA	NA
Zinc	mg/kg	23000	370	--	NA	NA
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	NA	NA

ECMC = Energy and Carbon Management Commission NA - Not Analyzed VOCs - Volatile Organic Compounds
mg/kg = milligrams per kilogram
mmhos/cm = millimhos per centimeter RSSLs = Residential Soil Screening Levels
PID = Photoionization Detector GSSLs = Protection of Groundwater Soil Screening Levels
ppm-v = parts per million by volume TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics
mg/L = milligrams per liter TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics
SAR = Sodium Adsorption Ratio TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics

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

Elevated metals are naturally occurring in Colorado. The Local Clean-up Levels are 1.25*Background high concentrations, where applicable.

Values presented in **BOLD** exceed ECMC Table 915-1 Regulatory Limits and applicable Local Clean-up Levels. Values presented with asterisk (*) exceed ECMC Table 915-1 GSSLs, only.

Laboratory reruns were completed as applicable on samples with Soil Suitability values outside ECMC Table 915-1 Regulatory Range. Results of the reruns are presented in parentheses.

**Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg. (1) The sample required dilution, raising laboratory detection and reporting limits - sample non-detect.



TABLE 3
GROUNDWATER ANALYTICAL RESULTS SUMMARY
McBAIN (BAINBRIDGE) #1
HISTORICAL RELEASE
40.361784 / -104.680276
NE¼ NE¼ SEC.32 T5N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-12032
REMEDATION # 27419

Sample Location (Latitude/Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4- trimethylbenzene (µg/L)	1,3,5- trimethylbenzene (µg/L)	1-Methyl- naphthalene (µg/L)	2-Methyl- naphthalene (µg/L)
ECMC Table 915-1 Regulatory Limits (µg/L)		5	560	700	1400	140	67	67	--	--
ECMC Narrative Groundwater Quality Standards* (µg/L)		--	--	--	--	--	--	--	1.1*	3.6*
GW-01 (40.361788 / -104.680269)	04/25/23	31.4	166	27.1	429	3.76	78.8	49.7	NA	NA
MW-01 (40.361781 / -104.680281)	09/19/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.02	<0.02
MW-02 (40.361868 / -104.680268)	09/19/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.02	<0.02
MW-03 (40.361787 / -104.680164)	09/19/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.02	<0.02
MW-04 (40.361710 / -104.680258)	09/19/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.02	<0.02
MW-05 (40.6361785 / -104.680369)	09/19/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.02	<0.02

ECMC = Energy and Carbon Management Commission
 µg/L - micrograms per liter
 Note: Values presented with a less than symbol (<) indicate concentrations were not observed at or above the laboratory reporting limit.
 Values presented in **BOLD** exceed ECMC Table 915-1 Regulatory Limits.

TABLE 4
INORGANIC GROUNDWATER PARAMETERS SUMMARY
McBAIN (BAINBRIDGE) #1
HISTORICAL RELEASE
40.361784 / -104.680276
NE¼ NE¼ SEC.32 T5N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-12032
REMEDATION # 27419

Sample Location (Latitude/Longitude)	Date	Chloride (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
<i>ECMC Table 91-1 Regulatory Limits (mg/L)</i>		<1.25xLocal Background (159)	<1.25xLocal Background (356)	<1.25xLocal Background (1313)
MW-01 (40.361781 / -104.680281)	09/19/23	130	302	1070
MW-02 (40.361868 / -104.680268)	09/19/23	125	303	1130
MW-03 (40.361787 / -104.680164)	09/19/23	125	273	990
MW-04 (40.361710 / -104.680258)	09/19/23	127	286	1050
MW-05 (40.6361785 / -104.680369)	09/19/23	123	299	1180
<p>ECMC = Energy and Carbon Management Commission mg/L - milligrams per liter</p> <p>Note: Inorganic Groundwater Parameters observed in up-gradient monitoring well MW-04 were used in the determination of the local background levels at the site. Local "regulatory limit" (1.25*local background) will be presented (in parentheses).</p> <p>Values presented in bold typeface exceed their respective ECMC - Regulatory Limits (Table 915-1).</p>				



**TABLE 5
GROUNDWATER ELEVATION SUMMARY
McBAIN (BAINBRIDGE) #1
HISTORICAL RELEASE
40.361784 / -104.680276
NE¼ NE¼ SEC.32 T5N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-12032
REMEDATION # 27419**

Sample Location (Latitude/Longitude)	Date	Top of Casing Elevation (feet)	Depth to Groundwater from TOC (feet)	Relative Groundwater Elevation (feet)	Stickup Height (feet)	Depth to Groundwater (feet) (bgs)
MW-01 (40.361781 / -104.680281)	09/19/23	99.57	4.54	95.03	2.72	1.82
MW-02 (40.361868 / -104.680268)	09/19/23	99.90	4.99	94.91	3.13	1.86
MW-03 (40.361787 / -104.680164)	09/19/23	99.95	4.92	95.03	2.88	2.04
MW-04 (40.361710 / -104.680258)	09/19/23	99.64	4.55	95.09	2.93	1.62
MW-05 (40.6361785 / -104.680369)	09/19/23	100.00	5.02	94.98	3.06	1.96
<p>NOTES: LNAPL = Light Non Aqueous Phase Liquid bgs = below ground surface TOC = top of casing DES = Destroyed NA = Not Applicable INA - Inaccessible NM = Not Measured</p>						



ATTACHMENT A

Soil Boring Logs / Well Completion Diagrams – MW – 01 to MW – 05

Boring Log/Well Completion Diagram:

MW-01

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-2.5') clayey SAND - light brown to black, dry, medium dense, fine to medium grained, moderately-graded with ~15% clay, HC odor and black staining	SC				0.8	N/A			
	@~3' - wet	DP	1	70	0.3					
5	(2.5-9') gravely SAND - light brown, wet, loose, medium to coarse grained, moderately-graded with ~40% small gravel, N/O, N/S	SM				0.1	N/A			
		DP	2	90	0.1					
10	(9-10') poorly-graded SAND - light brown, wet, very loose, fine grained with ~15% silt, N/O, N/S	SP								
	BoB @ 10'									

HA - Hand Auger
 DP - Direct Push
 HC - Hydrocarbon
 BoB - Bottom of Boring
 N/O - no odor
 N/S - no staining
 TOC - top of casing
 bgs - below ground surface

START/COMPLETION DATE: 08/23/23	SAND PACK INTERVAL (FEET): 1-10
PROJECT: MCBAIN (BAINBRIDGE) #1	BENTONITE/GROUT INTERVAL (FEET): 0.5-1
LOGGED BY: S. LEIVO	WELL SCREEN INTERVAL (FEET): 1-10
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): 2
BORING DEPTH (FEET): 10	WELL DEPTH (FEET): 10
PID INSTRUMENT: TIGER - PID #16	<p>EAGLE ENVIRONMENTAL CONSULTING, LLC</p> <p>8000 W 44th Ave., Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>
TIME STARTED/COMPLETED: 1000/1015	
SAMPLE COLLECTION DEPTH (FT.)/TIME: 0-2.5/1010	

Boring Log/Well Completion Diagram:

MW-02

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-2.5') clayey SAND - light brown to black, dry, medium dense, fine to medium grained, moderately-graded with ~15% clay, CaCO3, black staining and N/O.	SC	DP	1	80	0.4	N/A		Loose, wet sands prevented screening deeper than 5'.	
3	@~3' - wet				0.5					
5	(2.5-9') gravely SAND - light brown, wet, loose, medium to coarse grained, moderately-graded with ~40% small gravel, N/O, N/S	SM	DP	2	N/A	N/A				
10	(9-10') poorly-graded SAND - light brown, wet, very loose, fine grained with ~15% silt, N/O, N/S	SP				N/A	N/A			
10	BoB @ 10'									

HA - Hand Auger
 DP - Direct Push
 HC - Hydrocarbon
 BoB - Bottom of Boring
 N/O - no odor
 N/S - no staining
 TOC - top of casing
 bgs - below ground surface

START/COMPLETION DATE: 08/23/23	SAND PACK INTERVAL (FEET): 1-10
PROJECT: MCBAIN (BAINBRIDGE) #1	BENTONITE/GROUT INTERVAL (FEET): 0.5-1
LOGGED BY: S. LEIVO	WELL SCREEN INTERVAL (FEET): 1-10
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): 2
BORING DEPTH (FEET): 10	WELL DEPTH (FEET): 10
PID INSTRUMENT: TIGER - PID #16	
TIME STARTED/COMPLETED: 1055/1110	
SAMPLE COLLECTION DEPTH (FT.)/TIME: 0-2.5/1100	



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

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-3') gravely SAND - brown, moist, very loose, medium to coarse grained, moderately-graded with ~40% small gravel, N/O, N/S @~3' - wet	SM	DP	1	80	1.5	N/A			
3	(3-5') clayey SAND - black, wet, medium dense, fine to medium grained, poorly-graded with ~20-30% clay, slight HC odor and black staining	SC				1.3				
5	(5-9') gravely SAND - brown, moist, very loose, medium to coarse grained, moderately-graded with ~40% small gravel, N/O, N/S	SM	DP	2	80	0.7	N/A			
9	(9-10') poorly-graded SAND - light brown, wet, very loose, fine grained with ~15% silt, N/O, N/S	SP				0.7				
10	BoB @ 10'									
15										
20										
25										
30										

HA - Hand Auger
 DP - Direct Push
 HC - Hydrocarbon
 BoB - Bottom of Boring
 N/O - no odor
 N/S - no staining
 TOC - top of casing
 bgs - below ground surface

START/COMPLETION DATE: 08/23/23	SAND PACK INTERVAL (FEET): 1-10
PROJECT: MCBAIN (BAINBRIDGE) #1	BENTONITE/GROUT INTERVAL (FEET): 0.5-1
LOGGED BY: S. LEIVO	WELL SCREEN INTERVAL (FEET): 1-10
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): 2
BORING DEPTH (FEET): 10	WELL DEPTH (FEET): 10
PID INSTRUMENT: TIGER - PID #16	<p>EAGLE ENVIRONMENTAL CONSULTING, LLC</p> <p>8000 W 44th Ave., Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>
TIME STARTED/COMPLETED: 1115/1125	
SAMPLE COLLECTION DEPTH (FT.)/TIME: 0-2.5/1120	

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-2.5') clayey SAND - light brown to black, dry, medium dense, fine to medium grained, moderately-graded with ~15% clay, CaCO ₃ , HC odor and black staining @~3' - wet (2.5-5') gravely SAND - light brown, wet, loose, medium to coarse grained, moderately-graded with ~40% small gravel, N/O, N/S	SC	DP	1	70	1.6	N/A		Stopped logging at 5' due to wet sands.	
5		SM				1.3				
10	BoB @ 10'									
15										
20										
25										
30										

HA - Hand Auger
 DP - Direct Push
 HC - Hydrocarbon
 BoB - Bottom of Boring
 N/O - no odor
 N/S - no staining
 TOC - top of casing
 bgs - below ground surface

START/COMPLETION DATE: 08/23/23	SAND PACK INTERVAL (FEET): 1-10
PROJECT: MCBAIN (BAINBRIDGE) #1	BENTONITE/GROUT INTERVAL (FEET): 0.5-1
LOGGED BY: S. LEIVO	WELL SCREEN INTERVAL (FEET): 1-10
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): 2
BORING DEPTH (FEET): 10	WELL DEPTH (FEET): 10
PID INSTRUMENT: TIGER - PID #16	
TIME STARTED/COMPLETED: 1000/1015	
SAMPLE COLLECTION DEPTH (FT.)/TIME: 0-2.5/1010	



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 Ph: 303-433-0479 • F: 303-325-5449

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-2.5') clayey SAND - light brown to black, dry, medium dense, fine to medium grained, moderately-graded with ~15% clay, N/O, black staining	SC				0.4			Loose, wet sands prevented sampling/screening deeper than approximately 7.5'-10'	
@-3' - wet		DP	1	70		N/A				
5	(2.5-9') gravely SAND - light brown, wet, very loose, medium to coarse grained, moderately-graded with ~40% small gravel, N/O, N/S	SM				0.3				
		DP	2	70		0.4				
10	(9-10') poorly-graded SAND - light brown, wet, very loose, fine grained with ~15% silt, N/O, N/S	SP				0.1				
BoB @ 10'										

HA - Hand Auger
 DP - Direct Push
 HC - Hydrocarbon
 BoB - Bottom of Boring
 N/O - no odor
 N/S - no staining
 TOC - top of casing
 bgs - below ground surface

START/COMPLETION DATE: 08/23/23	SAND PACK INTERVAL (FEET): 1-10
PROJECT: MCBAIN (BAINBRIDGE) #1	BENTONITE/GROUT INTERVAL (FEET): 0.5-1
LOGGED BY: S. LEIVO	WELL SCREEN INTERVAL (FEET): 1-10
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): 2
BORING DEPTH (FEET): 10	WELL DEPTH (FEET): 10
PID INSTRUMENT: TIGER - PID #16	<p>EAGLE ENVIRONMENTAL CONSULTING, LLC</p> <p>8000 W 44th Ave., Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>
TIME STARTED/COMPLETED: 1000/1015	
SAMPLE COLLECTION DEPTH (FT.)/TIME: 0-2.5/1010	



ATTACHMENT B

Laboratory Analytical Reportsp

September 07, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Macbain (Bainbridge) #1 Project Number - [none]

Attached are your analytical results for Noble - Macbain (Bainbridge) #1 received by Origins Laboratory, Inc. August 23, 2023. This project is associated with Origins project number Y308605-01.

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

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

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

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

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

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



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Macbain (Bainbridge) #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01@0-2.5'	Y308605-01	Soil	August 23, 2023 10:10	08/23/2023 15:17
MW-02@0-2.5'	Y308605-02	Soil	August 23, 2023 11:00	08/23/2023 15:17
MW-03@0-2.5'	Y308605-03	Soil	August 23, 2023 11:17	08/23/2023 15:17
MW-04@0-2.5'	Y308605-04	Soil	August 23, 2023 11:35	08/23/2023 15:17
MW-05@0-2.5'	Y308605-05	Soil	August 23, 2023 10:40	08/23/2023 15:17

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4308605

Client: Eagle

Client Project ID: McBain (Bainbridge) #1

Checklist Completed by: EHS

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 8/23/23

Airbill #: N/A

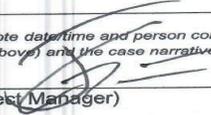
Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 / 5.5 °C / _____ °C / _____ °C (Describe)

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) 

Date/Time Reviewed 8/25/23

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

MW-01@0-2.5'
8/23/2023 10:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308605-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	31.8	25.0	mg/kg	1	B3H2501	ZZZ	08/25/2023	08/26/2023	
Residual Range Organics (C28-C40)	149	100	"	"	"	ZZZ	"	"	

Surrogate: *o*-Terphenyl 87.4 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3H2519	JSM	08/25/2023	08/26/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 113 % 70-130 " " "
 Surrogate: Toluene-d8 98.6 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 92.8 % 70-130 " " "

Metals by Saturated Paste by EPA 6010

Calcium	8.48	0.499	meq/L	10	[CALC]	KAP	08/30/2023	09/01/2023	
Magnesium	7.12	0.823	"	"	"	KAP	"	"	

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

MW-01@0-2.5'
8/23/2023 10:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308605-01 (Soil)

Metals by Saturated Paste by EPA 6010

Sodium	18.7	0.435	meq/L	10	[CALC]	KAP	08/30/2023	09/01/2023	
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PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3H2526	agile	08/25/2023	08/29/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	121 %	60-130			"	"	"	"	
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Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

MW-01@0-2.5'
8/23/2023 10:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308605-01 (Soil)

PAH by EPA 8270E

Surrogate: Anthracene-d10	99.8 %	60-130			B3H25 26		08/25/2023	08/29/2023	
Surrogate: Benzo (a) pyrene-d12	91.6 %	60-130			"		"	"	
Surrogate: Pyrene-d10	103 %	60-130			"		"	"	

pH in Soil by 9045D

pH	7.98		pH Units	1	B3H3012	HJD	08/30/2023	08/31/2023	
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SAR by 20B Saturated Paste

SAR	6.71	0.0100	SAR	1	B3H3002	KAP	08/30/2023	09/01/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.83	0.0907	mg/kg	10	B3H2334	CIH	08/23/2023	08/25/2023	
Barium	77.1	9.07	"	"	"	CIH	"	"	
Lead	29.0	9.07	"	"	"	CIH	"	"	
Selenium	0.153	0.0907	"	"	"	CIH	"	"	

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

MW-02@0-2.5'
8/23/2023 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308605-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3H2501	ZZZ	08/25/2023	08/25/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 93.2 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3H2519	JSM	08/25/2023	08/26/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "
 Surrogate: Toluene-d8 97.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 94.1 % 70-130 " " "

Metals by Saturated Paste by EPA 6010

Calcium	19.6	0.499	meq/L	10	[CALC]	KAP	08/30/2023	09/01/2023
Magnesium	22.7	0.823	"	"	"	KAP	"	"

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

MW-02@0-2.5'
8/23/2023 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308605-02 (Soil)

Metals by Saturated Paste by EPA 6010

Sodium	33.1	0.435	meq/L	10	[CALC]	KAP	08/30/2023	09/01/2023	
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PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3H2526	agile	08/25/2023	08/29/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	0.002	0.002	"	"	"	agile	"	"	
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	124 %	60-130		"	"	"
Surrogate: Anthracene-d10	91.4 %	60-130		"	"	"

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

MW-02@0-2.5'
8/23/2023 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308605-02 (Soil)

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	90.1 %	60-130			B3H25 26		08/25/2023	08/29/2023	
Surrogate: Pyrene-d10	100 %	60-130			"		"	"	

pH in Soil by 9045D

pH	7.92		pH Units	1	B3H3012	HJD	08/30/2023	08/31/2023	
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SAR by 20B Saturated Paste

SAR	7.20	0.0100	SAR	1	B3H3002	KAP	08/30/2023	09/01/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.83	0.0957	mg/kg	10	B3H2334	CIH	08/23/2023	08/25/2023	
Barium	79.0	9.57	"	"	"	CIH	"	"	
Lead	ND	9.57	"	"	"	CIH	"	"	
Selenium	ND	0.0957	"	"	"	CIH	"	"	

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

MW-03@0-2.5'
8/23/2023 11:17:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308605-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3H2501	ZZZ	08/25/2023	08/25/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 89.9 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3H2519	JSM	08/25/2023	08/26/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "
 Surrogate: Toluene-d8 95.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 96.2 % 70-130 " " "

Metals by Saturated Paste by EPA 6010

Calcium	18.1	0.499	meq/L	10	[CALC]	KAP	08/30/2023	09/01/2023
Magnesium	41.9	0.823	"	"	"	KAP	"	"

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

MW-03@0-2.5'
8/23/2023 11:17:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308605-03 (Soil)

Metals by Saturated Paste by EPA 6010

Sodium	44.9	0.435	meq/L	10	[CALC]	KAP	08/30/2023	09/01/2023	
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PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3H2526	agile	08/25/2023	08/29/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	122 %	60-130			"	"	"	"	
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Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

MW-03@0-2.5'
8/23/2023 11:17:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308605-03 (Soil)

PAH by EPA 8270E

Surrogate: Anthracene-d10	105 %	60-130			B3H25 26		08/25/2023	08/29/2023	
Surrogate: Benzo (a) pyrene-d12	90.1 %	60-130			"		"	"	
Surrogate: Pyrene-d10	145 %	60-130			"		"	"	S-04

pH in Soil by 9045D

pH	8.19		pH Units	1	B3H3012	HJD	08/30/2023	08/31/2023	
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SAR by 20B Saturated Paste

SAR	8.20	0.0100	SAR	1	B3H3002	KAP	08/30/2023	09/01/2023	
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Table 915 metals by EPA 6020B

Arsenic	1.77	0.0889	mg/kg	10	B3H2334	CIH	08/23/2023	08/25/2023	
Barium	49.6	8.89	"	"	"	CIH	"	"	
Lead	24.0	8.89	"	"	"	CIH	"	"	
Selenium	ND	0.0889	"	"	"	CIH	"	"	

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

MW-04@0-2.5'
8/23/2023 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308605-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3H2501	ZZZ	08/25/2023	08/25/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 99.5 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3H2519	JSM	08/25/2023	08/26/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 111 % 70-130 " " "
 Surrogate: Toluene-d8 96.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 88.7 % 70-130 " " "

Metals by Saturated Paste by EPA 6010

Calcium	22.8	0.499	meq/L	10	[CALC]	KAP	08/30/2023	09/01/2023
Magnesium	29.9	0.823	"	"	"	KAP	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

MW-04@0-2.5'
8/23/2023 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308605-04 (Soil)

Metals by Saturated Paste by EPA 6010

Sodium	69.1	0.435	meq/L	10	[CALC]	KAP	08/30/2023	09/01/2023	
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PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3H2526	agile	08/25/2023	08/29/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	123 %	60-130			"	"	"	"	
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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

MW-04@0-2.5'
8/23/2023 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308605-04 (Soil)

PAH by EPA 8270E

Surrogate: Anthracene-d10	87.3 %	60-130			B3H25 26		08/25/2023	08/29/2023	
Surrogate: Benzo (a) pyrene-d12	90.5 %	60-130			"		"	"	
Surrogate: Pyrene-d10	114 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.11		pH Units	1	B3H3012	HJD	08/30/2023	08/31/2023	
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SAR by 20B Saturated Paste

SAR	13.5	0.0100	SAR	1	B3H3002	KAP	08/30/2023	09/01/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.48	0.0907	mg/kg	10	B3H2334	CIH	08/23/2023	08/25/2023	
Barium	46.7	9.07	"	"	"	CIH	"	"	
Lead	ND	9.07	"	"	"	CIH	"	"	
Selenium	0.0989	0.0907	"	"	"	CIH	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

MW-05@0-2.5'
8/23/2023 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308605-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3H2501	ZZZ	08/25/2023	08/25/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 93.7 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3H2519	JSM	08/25/2023	08/26/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 112 % 70-130 " " "
 Surrogate: Toluene-d8 97.5 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 91.6 % 70-130 " " "

Metals by Saturated Paste by EPA 6010

Calcium	19.8	0.499	meq/L	10	[CALC]	KAP	08/30/2023	09/01/2023
Magnesium	14.9	0.823	"	"	"	KAP	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

MW-05@0-2.5'
8/23/2023 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308605-05 (Soil)

Metals by Saturated Paste by EPA 6010

Sodium	29.4	0.435	meq/L	10	[CALC]	KAP	08/30/2023	09/01/2023	
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PAH by EPA 8270E

1-Methylnaphthalene	0.004	0.002	mg/kg	1	B3H2526	agile	08/25/2023	08/29/2023	
2-Methylnaphthalene	0.006	0.002	"	"	"	agile	"	"	
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	144 %	60-130			"	"	"	S-04
Surrogate: Anthracene-d10	98.5 %	60-130			"	"	"	

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

MW-05@0-2.5'
8/23/2023 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308605-05 (Soil)

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	90.8 %	60-130			B3H25 26		08/25/2023	08/29/2023	
Surrogate: Pyrene-d10	101 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.06		pH Units	1	B3H3012	HJD	08/30/2023	08/31/2023	
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SAR by 20B Saturated Paste

SAR	7.06	0.0100	SAR	1	B3H3002	KAP	08/30/2023	09/01/2023	
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Table 915 metals by EPA 6020B

Arsenic	0.969	0.0897	mg/kg	10	B3H2334	CIH	08/23/2023	08/25/2023	
Barium	59.1	8.97	"	"	"	CIH	"	"	
Lead	ND	8.97	"	"	"	CIH	"	"	
Selenium	0.116	0.0897	"	"	"	CIH	"	"	

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H2501 - EPA 3550B										
Blank (B3H2501-BLK1)										
					Prepared: 08/25/2023 Analyzed: 08/26/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		91.7	50-150			

Origins Laboratory, Inc.



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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H2501 - EPA 3550B

LCS (B3H2501-BS1)

Prepared: 08/25/2023 Analyzed: 08/26/2023

Diesel (C10-C28)	1050	50.0	mg/kg	1000		105	70-130			
Residual Range Organics (C28-C40)	1080	200	"	1000		108	70-130			
Surrogate: o-Terphenyl	47		"	49.8		93.6	50-150			

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H2501 - EPA 3550B

Matrix Spike (B3H2501-MS1)	Source: Y308605-01			Prepared: 08/25/2023 Analyzed: 08/26/2023						
Diesel (C10-C28)	1140	50.0	mg/kg	1000	ND	114	70-130			
Residual Range Organics (C28-C40)	1250	200	"	1000	149	110	70-130			
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H2501 - EPA 3550B

Matrix Spike Dup (B3H2501-MSD1)	Source: Y308605-01			Prepared: 08/25/2023 Analyzed: 08/26/2023						
Diesel (C10-C28)	1150	50.0	mg/kg	1000	ND	115	70-130	0.560	35	
Residual Range Organics (C28-C40)	1250	200	"	1000	149	110	70-130	0.100	35	
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H2519 - EPA 5030 (soil)

Blank (B3H2519-BLK1)

Prepared: 08/25/2023 Analyzed: 08/26/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	105		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	99.2		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	93.0		70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H2519 - EPA 5030 (soil)

LCS (B3H2519-BS1)

Prepared: 08/25/2023 Analyzed: 08/26/2023

1,2,4-Trimethylbenzene	0.0861	0.00200	mg/kg	0.100		86.1	70-130			
1,3,5-Trimethylbenzene	0.0870	0.00200	"	0.100		87.0	70-130			
Benzene	0.0860	0.00200	"	0.100		86.0	70-130			
Ethylbenzene	0.0808	0.00200	"	0.100		80.8	70-130			
Naphthalene	0.0931	0.00380	"	0.100		93.1	70-130			
Toluene	0.0867	0.00200	"	0.100		86.7	70-130			
o-Xylene	0.0930	0.00200	"	0.100		93.0	70-130			
m,p-Xylene	0.176	0.00400	"	0.200		87.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H2519 - EPA 5030 (soil)

Matrix Spike (B3H2519-MS1)	Source: Y308582-01			Prepared: 08/25/2023 Analyzed: 08/26/2023						
1,2,4-Trimethylbenzene	0.0845	0.00200	mg/kg	0.100	ND	84.5	70-130			
1,3,5-Trimethylbenzene	0.0847	0.00200	"	0.100	ND	84.7	70-130			
Benzene	0.0871	0.00200	"	0.100	ND	87.1	70-130			
Ethylbenzene	0.0850	0.00200	"	0.100	0.000460	84.6	70-130			
Naphthalene	0.0831	0.00380	"	0.100	0.000760	82.4	70-130			
Toluene	0.0886	0.00200	"	0.100	ND	88.6	70-130			
o-Xylene	0.0842	0.00200	"	0.100	ND	84.2	70-130			
m,p-Xylene	0.174	0.00400	"	0.200	ND	86.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H2519 - EPA 5030 (soil)

Matrix Spike Dup (B3H2519-MSD1)	Source: Y308582-01			Prepared: 08/25/2023 Analyzed: 08/26/2023						
1,2,4-Trimethylbenzene	0.0830	0.00200	mg/kg	0.100	ND	83.0	70-130	1.79	20	
1,3,5-Trimethylbenzene	0.0834	0.00200	"	0.100	ND	83.4	70-130	1.55	20	
Benzene	0.0857	0.00200	"	0.100	ND	85.7	70-130	1.69	20	
Ethylbenzene	0.0815	0.00200	"	0.100	0.000460	81.0	70-130	4.25	20	
Naphthalene	0.0917	0.00380	"	0.100	0.000760	90.9	70-130	9.82	20	
Toluene	0.0847	0.00200	"	0.100	ND	84.7	70-130	4.55	20	
o-Xylene	0.0810	0.00200	"	0.100	ND	81.0	70-130	3.83	20	
m,p-Xylene	0.165	0.00400	"	0.200	ND	82.6	70-130	4.94	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H2334 - EPA 3050B

Blank (B3H2334-BLK1)

Prepared: 08/23/2023 Analyzed: 08/25/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

LCS (B3H2334-BS1)

Prepared: 08/23/2023 Analyzed: 08/25/2023

Arsenic	0.0477	0.000100	mg/kg	0.0500		95.4	80-120			
Barium	4.93	0.0100	"	5.00		98.6	80-120			
Cadmium	0.0489	0.000100	"	0.0500		97.9	80-120			
Copper	0.515	0.0100	"	0.500		103	80-120			
Lead	0.0484	0.0100	"	0.0500		96.7	80-120			
Nickel	0.0488	0.0100	"	0.0500		97.7	80-120			
Selenium	0.0479	0.000100	"	0.0500		95.8	80-120			
Silver	0.0487	0.000100	"	0.0500		97.4	80-120			
Zinc	0.489	0.100	"	0.500		97.8	80-120			

Matrix Spike (B3H2334-MS1)

Source: Y308598-01

Prepared: 08/23/2023 Analyzed: 08/25/2023

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H2334 - EPA 3050B										
Matrix Spike (B3H2334-MS1)			Source: Y308598-01			Prepared: 08/23/2023 Analyzed: 08/25/2023				
Arsenic	6.40	0.0975	mg/kg	4.88	2.88	72.3	75-125			QM-07
Barium	547	9.75	"	488	66.9	98.4	75-125			
Cadmium	5.11	0.0975	"	4.88	0.242	99.9	75-125			
Copper	59.8	9.75	"	48.8	13.7	94.5	75-125			
Lead	17.1	9.75	"	4.88	14.7	49.0	75-125			QM-07
Nickel	16.0	9.75	"	4.88	14.7	26.2	75-125			QM-07
Selenium	4.09	0.0975	"	4.88	0.306	77.5	75-125			
Silver	4.89	0.0975	"	4.88	0.0316	99.6	75-125			
Zinc	98.8	97.5	"	48.8	65.6	68.2	75-125			QM-07
Matrix Spike Dup (B3H2334-MSD1)			Source: Y308598-01			Prepared: 08/23/2023 Analyzed: 08/25/2023				
Arsenic	7.33	0.0956	mg/kg	4.78	2.88	93.1	75-125	13.5	20	
Barium	547	9.56	"	478	66.9	100	75-125	0.0601	20	
Cadmium	5.07	0.0956	"	4.78	0.242	101	75-125	0.757	20	
Copper	61.7	9.56	"	47.8	13.7	100	75-125	3.12	20	
Lead	19.7	9.56	"	4.78	14.7	106	75-125	14.6	20	
Nickel	23.0	9.56	"	4.78	14.7	174	75-125	36.0	20	QM-07
Selenium	3.86	0.0956	"	4.78	0.306	74.3	75-125	5.80	20	QM-07
Silver	4.83	0.0956	"	4.78	0.0316	100	75-125	1.15	20	
Zinc	120	95.6	"	47.8	65.6	115	75-125	19.7	20	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H2526 - EPA 3580

Blank (B3H2526-BLK1)

Prepared: 08/25/2023 Analyzed: 08/29/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	220		ug/kg	200		108	60-130			
Surrogate: Anthracene-d10	180		"	200		91.7	60-130			
Surrogate: Benzo (a) pyrene-d12	180		"	200		91.6	60-130			
Surrogate: Pyrene-d10	190		"	200		97.2	60-130			

LCS (B3H2526-BS1)

Prepared: 08/25/2023 Analyzed: 08/29/2023

1-Methylnaphthalene	0.169	0.002	mg/kg	0.200		84.7	70-130			
2-Methylnaphthalene	0.166	0.002	"	0.200		82.8	70-130			
Acenaphthene	0.188	0.020	"	0.200		94.1	70-130			
Anthracene	0.189	0.020	"	0.200		94.5	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H2526 - EPA 3580

LCS (B3H2526-BS1)

Prepared: 08/25/2023 Analyzed: 08/29/2023

Benzo (a) anthracene	0.181	0.005	mg/kg	0.200		90.5	70-130			
Benzo (a) pyrene	0.174	0.020	"	0.200		87.0	70-130			
Benzo (b) fluoranthene	0.188	0.020	"	0.200		94.0	70-130			
Benzo (g,h,i) perylene	0.165	0.020	"	0.200		82.4	70-130			
Benzo (k) fluoranthene	0.170	0.020	"	0.200		84.9	70-130			
Chrysene	0.228	0.020	"	0.200		114	70-130			
Dibenz (a,h) anthracene	0.171	0.020	"	0.200		85.6	70-130			
Fluoranthene	0.200	0.020	"	0.200		100	70-130			
Fluorene	0.190	0.020	"	0.200		94.9	70-130			
Indeno (1,2,3-cd) pyrene	0.170	0.020	"	0.200		84.9	70-130			
Naphthalene	0.190	0.002	"	0.200		95.2	70-130			
Phenanthrene	0.181	0.020	"	0.200		90.4	70-130			
Pyrene	0.180	0.020	"	0.200		89.9	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	190		"	200		95.5	60-130			
Surrogate: Benzo (a) pyrene-d12	180		"	200		89.7	60-130			
Surrogate: Pyrene-d10	200		"	200		99.6	60-130			

Matrix Spike (B3H2526-MS1)

Source: Y308597-01

Prepared: 08/25/2023 Analyzed: 08/29/2023

1-Methylnaphthalene	0.145	0.002	mg/kg	0.200	0.002	71.4	70-130			
2-Methylnaphthalene	0.159	0.002	"	0.200	ND	79.5	70-130			
Acenaphthene	0.172	0.020	"	0.200	ND	86.0	70-130			
Anthracene	0.171	0.020	"	0.200	0.0009	85.3	70-130			
Benzo (a) anthracene	0.166	0.005	"	0.200	0.0006	82.7	70-130			
Benzo (a) pyrene	0.159	0.020	"	0.200	ND	79.3	70-130			
Benzo (b) fluoranthene	0.192	0.020	"	0.200	0.001	95.3	70-130			
Benzo (g,h,i) perylene	0.181	0.020	"	0.200	0.0004	90.2	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H2526 - EPA 3580

Matrix Spike (B3H2526-MS1)		Source: Y308597-01			Prepared: 08/25/2023 Analyzed: 08/29/2023					
Benzo (k) fluoranthene	0.194	0.020	mg/kg	0.200	0.0006	96.8	70-130			
Chrysene	0.237	0.020	"	0.200	0.0005	118	70-130			
Dibenz (a,h) anthracene	0.167	0.020	"	0.200	0.002	82.8	70-130			
Fluoranthene	0.184	0.020	"	0.200	ND	92.2	70-130			
Fluorene	0.209	0.020	"	0.200	ND	105	70-130			
Indeno (1,2,3-cd) pyrene	0.155	0.020	"	0.200	0.003	76.1	70-130			
Naphthalene	0.164	0.002	"	0.200	ND	82.2	70-130			
Phenanthrene	0.176	0.020	"	0.200	ND	88.0	70-130			
Pyrene	0.142	0.020	"	0.200	ND	71.2	70-130			
Surrogate: Fluorene-d10	240		ug/kg	200		122	60-130			
Surrogate: Anthracene-d10	200		"	200		98.3	60-130			
Surrogate: Benzo (a) pyrene-d12	180		"	200		90.4	60-130			
Surrogate: Pyrene-d10	170		"	200		86.5	60-130			

Matrix Spike Dup (B3H2526-MSD1)		Source: Y308597-01			Prepared: 08/25/2023 Analyzed: 08/29/2023					
1-Methylnaphthalene	0.196	0.002	mg/kg	0.200	0.002	96.9	70-130	29.9	20	QR-02
2-Methylnaphthalene	0.178	0.002	"	0.200	ND	89.2	70-130	11.5	20	
Acenaphthene	0.184	0.020	"	0.200	ND	91.8	70-130	6.45	20	
Anthracene	0.171	0.020	"	0.200	0.0009	84.9	70-130	0.389	20	
Benzo (a) anthracene	0.213	0.005	"	0.200	0.0006	106	70-130	24.8	20	QR-02
Benzo (a) pyrene	0.180	0.020	"	0.200	ND	90.0	70-130	12.6	20	
Benzo (b) fluoranthene	0.194	0.020	"	0.200	0.001	96.4	70-130	1.14	20	
Benzo (g,h,i) perylene	0.126	0.020	"	0.200	0.0004	62.8	70-130	35.7	20	QM-07
Benzo (k) fluoranthene	0.164	0.020	"	0.200	0.0006	81.6	70-130	16.9	20	
Chrysene	0.223	0.020	"	0.200	0.0005	111	70-130	5.77	20	
Dibenz (a,h) anthracene	0.151	0.020	"	0.200	0.002	74.4	70-130	10.6	20	
Fluoranthene	0.213	0.020	"	0.200	ND	106	70-130	14.3	20	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H2526 - EPA 3580

Matrix Spike Dup (B3H2526-MSD1)	Source: Y308597-01			Prepared: 08/25/2023 Analyzed: 08/29/2023						
Fluorene	0.199	0.020	mg/kg	0.200	ND	99.7	70-130	4.71	20	
Indeno (1,2,3-cd) pyrene	0.135	0.020	"	0.200	0.003	66.0	70-130	13.9	20	QM-07
Naphthalene	0.189	0.002	"	0.200	ND	94.5	70-130	13.8	20	
Phenanthrene	0.188	0.020	"	0.200	ND	94.0	70-130	6.54	20	
Pyrene	0.170	0.020	"	0.200	ND	85.1	70-130	17.7	20	
Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130			
Surrogate: Anthracene-d10	200		"	200		98.1	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		94.5	60-130			
Surrogate: Pyrene-d10	200		"	200		97.8	60-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H3002 - Saturated Paste Metals

Blank (B3H3002-BLK1)

Prepared: 08/30/2023 Analyzed: 09/01/2023

SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

Duplicate (B3H3002-DUP1)

Source: Y308577-01

Prepared: 08/30/2023 Analyzed: 09/01/2023

Calcium PPM	55.5	10.0	mg/L		43.8			23.6	50	
SAR	ND	0.0100	SAR		1.71				200	
Magnesium PPM	23.1	10.0	mg/L		18.3			23.4	50	
Sodium PPM	66.4	10.0	"		53.4			21.6	50	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H3012 - Saturated Paste pH/EC

Duplicate (B3H3012-DUP1)

Source: Y308577-01

Prepared: 08/30/2023 Analyzed: 08/31/2023

pH	7.44		pH Units		7.33			1.49	25	
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Macbain (Bainbridge) #1

Notes and Definitions

- U Sample is Non-Detect.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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.

September 07, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Macbain (Bainbridge) #1 Project Number - [none]

Attached are your analytical results for Noble - Macbain (Bainbridge) #1 received by Origins Laboratory, Inc. August 23, 2023. This project is associated with Origins project number Y308607-01.

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

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

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

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

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

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



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Macbain (Bainbridge) #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-02@0-2.5'	Y308607-01	Soil	August 23, 2023 11:55	08/23/2023 15:17
Background-03@0-2.5'	Y308607-02	Soil	August 23, 2023 12:02	08/23/2023 15:17
Background-04@0-2.5'	Y308607-03	Soil	August 23, 2023 12:05	08/23/2023 15:17
Background-05@0-2.5'	Y308607-04	Soil	August 23, 2023 12:10	08/23/2023 15:17
Background-06@0-2.5'	Y308607-05	Soil	August 23, 2023 12:11	08/23/2023 15:17

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4508007

Client: Macbain (Bainbridge) #15
 Client Project ID: Eagle

Checklist Completed by: EHS

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

Date/time completed: 8/23/23

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

Cooler Number/Temperature: 1 / 5.5 °c / _____ °c / _____ °c (Describe)

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		X		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			X	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 8/25/23

Origins Laboratory, Inc.

[Signature]

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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

Background-02@0-2.5'
8/23/2023 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308607-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	22.8	0.499	meq/L	10	[CALC]	KAP	08/30/2023	09/01/2023
Magnesium	44.0	0.823	"	"	"	KAP	"	"
Sodium	109	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.08		pH Units	1	B3H3012	HJD	08/30/2023	08/31/2023
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SAR by 20B Saturated Paste

SAR	18.9	0.0100	SAR	1	B3H3002	KAP	08/30/2023	09/01/2023
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Table 915 metals by EPA 6020B

Arsenic	2.68	0.0861	mg/kg	10	B3H2334	CIH	08/23/2023	08/25/2023
Barium	67.7	8.61	"	"	"	CIH	"	"
Lead	9.62	8.61	"	"	"	CIH	"	"
Selenium	0.154	0.0861	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

Background-03@0-2.5'
8/23/2023 12:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308607-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	24.9	0.499	meq/L	10	[CALC]	KAP	08/30/2023	09/01/2023	
Magnesium	18.5	0.823	"	"	"	KAP	"	"	
Sodium	37.2	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	7.81		pH Units	1	B3H3012	HJD	08/30/2023	08/31/2023	
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SAR by 20B Saturated Paste

SAR	7.99	0.0100	SAR	1	B3H3002	KAP	08/30/2023	09/01/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.64	0.0947	mg/kg	10	B3H2334	CIH	08/23/2023	08/25/2023	
Barium	70.4	9.47	"	"	"	CIH	"	"	
Lead	ND	9.47	"	"	"	CIH	"	"	
Selenium	0.182	0.0947	"	"	"	CIH	"	"	

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

Background-04@0-2.5'
8/23/2023 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308607-03 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	22.9	0.499	meq/L	10	[CALC]	KAP	08/30/2023	09/01/2023	
Magnesium	12.7	0.823	"	"	"	KAP	"	"	
Sodium	18.5	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	7.92		pH Units	1	B3H3012	HJD	08/30/2023	08/31/2023	
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SAR by 20B Saturated Paste

SAR	4.38	0.0100	SAR	1	B3H3002	KAP	08/30/2023	09/01/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.92	0.0925	mg/kg	10	B3H2334	CIH	08/23/2023	08/25/2023	
Barium	74.9	9.25	"	"	"	CIH	"	"	
Lead	ND	9.25	"	"	"	CIH	"	"	
Selenium	ND	0.0925	"	"	"	CIH	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

Background-05@0-2.5'
8/23/2023 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308607-04 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	22.4	0.499	meq/L	10	[CALC]	KAP	08/30/2023	09/01/2023	
Magnesium	13.8	0.823	"	"	"	KAP	"	"	
Sodium	51.9	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	8.14		pH Units	1	B3H3012	HJD	08/30/2023	08/31/2023	
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SAR by 20B Saturated Paste

SAR	12.2	0.0100	SAR	1	B3H3002	KAP	08/30/2023	09/01/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.41	0.0953	mg/kg	10	B3H2334	CIH	08/23/2023	08/25/2023	
Barium	80.7	9.53	"	"	"	CIH	"	"	
Lead	ND	9.53	"	"	"	CIH	"	"	
Selenium	0.188	0.0953	"	"	"	CIH	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

Background-06@0-2.5'
8/23/2023 12:11:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308607-05 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	24.1	0.499	meq/L	10	[CALC]	KAP	08/30/2023	09/01/2023	
Magnesium	18.6	0.823	"	"	"	KAP	"	"	
Sodium	29.8	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	7.88		pH Units	1	B3H3012	HJD	08/30/2023	08/31/2023	
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SAR by 20B Saturated Paste

SAR	6.44	0.0100	SAR	1	B3H3002	KAP	08/30/2023	09/01/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.78	0.0959	mg/kg	10	B3H2334	CIH	08/23/2023	08/25/2023	
Barium	103	9.59	"	"	"	CIH	"	"	
Lead	10.7	9.59	"	"	"	CIH	"	"	
Selenium	0.193	0.0959	"	"	"	CIH	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H2334 - EPA 3050B

Blank (B3H2334-BLK1)

Prepared: 08/23/2023 Analyzed: 08/25/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

LCS (B3H2334-BS1)

Prepared: 08/23/2023 Analyzed: 08/25/2023

Arsenic	0.0477	0.000100	mg/kg	0.0500		95.4	80-120			
Barium	4.93	0.0100	"	5.00		98.6	80-120			
Cadmium	0.0489	0.000100	"	0.0500		97.9	80-120			
Copper	0.515	0.0100	"	0.500		103	80-120			
Lead	0.0484	0.0100	"	0.0500		96.7	80-120			
Nickel	0.0488	0.0100	"	0.0500		97.7	80-120			
Selenium	0.0479	0.000100	"	0.0500		95.8	80-120			
Silver	0.0487	0.000100	"	0.0500		97.4	80-120			
Zinc	0.489	0.100	"	0.500		97.8	80-120			

Matrix Spike (B3H2334-MS1)

Source: Y308598-01

Prepared: 08/23/2023 Analyzed: 08/25/2023

Arsenic	6.40	0.0975	mg/kg	4.88	2.88	72.3	75-125			QM-07
Barium	547	9.75	"	488	66.9	98.4	75-125			
Cadmium	5.11	0.0975	"	4.88	0.242	99.9	75-125			
Copper	59.8	9.75	"	48.8	13.7	94.5	75-125			
Lead	17.1	9.75	"	4.88	14.7	49.0	75-125			QM-07

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H2334 - EPA 3050B										
Matrix Spike (B3H2334-MS1)			Source: Y308598-01			Prepared: 08/23/2023 Analyzed: 08/25/2023				
Nickel	16.0	9.75	mg/kg	4.88	14.7	26.2	75-125			QM-07
Selenium	4.09	0.0975	"	4.88	0.306	77.5	75-125			
Silver	4.89	0.0975	"	4.88	0.0316	99.6	75-125			
Zinc	98.8	97.5	"	48.8	65.6	68.2	75-125			QM-07
Matrix Spike Dup (B3H2334-MSD1)			Source: Y308598-01			Prepared: 08/23/2023 Analyzed: 08/25/2023				
Arsenic	7.33	0.0956	mg/kg	4.78	2.88	93.1	75-125	13.5	20	
Barium	547	9.56	"	478	66.9	100	75-125	0.0601	20	
Cadmium	5.07	0.0956	"	4.78	0.242	101	75-125	0.757	20	
Copper	61.7	9.56	"	47.8	13.7	100	75-125	3.12	20	
Lead	19.7	9.56	"	4.78	14.7	106	75-125	14.6	20	
Nickel	23.0	9.56	"	4.78	14.7	174	75-125	36.0	20	QM-07
Selenium	3.86	0.0956	"	4.78	0.306	74.3	75-125	5.80	20	QM-07
Silver	4.83	0.0956	"	4.78	0.0316	100	75-125	1.15	20	
Zinc	120	95.6	"	47.8	65.6	115	75-125	19.7	20	

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H3002 - Saturated Paste Metals

Blank (B3H3002-BLK1)

Prepared: 08/30/2023 Analyzed: 09/01/2023

Calcium PPM	ND	10.0	mg/L							
SAR	ND	0.0100	SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							

Duplicate (B3H3002-DUP1)

Source: Y308577-01

Prepared: 08/30/2023 Analyzed: 09/01/2023

Calcium PPM	55.5	10.0	mg/L		43.8			23.6	50	
SAR	ND	0.0100	SAR		1.71				200	
Magnesium PPM	23.1	10.0	mg/L		18.3			23.4	50	
Sodium PPM	66.4	10.0	"		53.4			21.6	50	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Macbain (Bainbridge) #1

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H3012 - Saturated Paste pH/EC

Duplicate (B3H3012-DUP1)		Source: Y308577-01			Prepared: 08/30/2023 Analyzed: 08/31/2023					
pH	7.44		pH Units		7.33			1.49	25	

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Macbain (Bainbridge) #1

Notes and Definitions

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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.



September 27, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - McBain (BainBridge) #1 Project Number - [none]

Attached are your analytical results for Noble - McBain (BainBridge) #1 received by Origins Laboratory, Inc. September 19, 2023. This project is associated with Origins project number Y309427-01.

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

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

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

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

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

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



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - McBain (BainBridge) #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y309427-01	Water	September 19, 2023 10:20	09/19/2023 15:15
MW-02	Y309427-02	Water	September 19, 2023 10:25	09/19/2023 15:15
MW-03	Y309427-03	Water	September 19, 2023 10:35	09/19/2023 15:15
MW-04	Y309427-04	Water	September 19, 2023 10:40	09/19/2023 15:15
MW-05	Y309427-05	Water	September 19, 2023 10:50	09/19/2023 15:15

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - McBain (BainBridge) #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1309427

Client: Eagle

Client Project ID: McBain #1

Checklist Completed by: JST/EMS

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 9/20/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: TOUH

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		/		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	/			NC
Additional Comments (if any):				

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

Reviewed by (Project Manager) JST

Date/Time Reviewed 9/20/23

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - McBain (BainBridge) #1

MW-01

9/19/2023 10:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309427-01 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B312056	JSM	09/20/2023	09/22/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.9 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - McBain (BainBridge) #1

MW-02

9/19/2023 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309427-02 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B312056	JSM	09/20/2023	09/22/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130				"	"	"	
Surrogate: Toluene-d8	99.7 %	70-130				"	"	"	
Surrogate: 4-Bromofluorobenzene	95.0 %	70-130				"	"	"	

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - McBain (BainBridge) #1

MW-03

9/19/2023 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309427-03 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B312056	JSM	09/20/2023	09/22/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.9 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - McBain (BainBridge) #1

MW-04

9/19/2023 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309427-04 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B312056	JSM	09/20/2023	09/22/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.0 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - McBain (BainBridge) #1

MW-05

9/19/2023 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309427-05 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B312056	JSM	09/20/2023	09/22/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130				"	"	"	
Surrogate: Toluene-d8	98.2 %	70-130				"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6 %	70-130				"	"	"	

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - McBain (BainBridge) #1

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B312056 - EPA 5030B (Water)

Blank (B312056-BLK1)

Prepared: 09/20/2023 Analyzed: 09/22/2023

1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5	99.0		70-130			
Surrogate: Toluene-d8	64		"	62.5	102		70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5	93.9		70-130			

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - McBain (BainBridge) #1

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B312056 - EPA 5030B (Water)

LCS (B312056-BS1)

Prepared: 09/20/2023 Analyzed: 09/22/2023

1,2,4-Trimethylbenzene	55.2	2.00	ug/L	50.0		110	70-130			
1,3,5-Trimethylbenzene	59.0	2.00	"	50.0		118	70-130			
Benzene	52.8	1.00	"	50.0		106	70-130			
Ethylbenzene	54.6	1.00	"	50.0		109	70-130			
m,p-Xylene	108	2.00	"	100		108	70-130			
Naphthalene	51.8	2.00	"	50.0		104	70-130			
o-Xylene	53.2	1.00	"	50.0		106	70-130			
Toluene	50.0	1.00	"	50.0		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		95.1	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.6	70-130			

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - McBain (BainBridge) #1

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3I2056 - EPA 5030B (Water)

Matrix Spike (B3I2056-MS1)	Source: Y309427-01			Prepared: 09/20/2023 Analyzed: 09/22/2023						
1,2,4-Trimethylbenzene	40.2	2.00	ug/L	50.0	0.270	79.9	70-130			
1,3,5-Trimethylbenzene	41.2	2.00	"	50.0	ND	82.4	70-130			
Benzene	40.1	1.00	"	50.0	ND	80.3	70-130			
Ethylbenzene	40.8	1.00	"	50.0	0.190	81.2	70-130			
m,p-Xylene	82.5	2.00	"	100	ND	82.5	70-130			
Naphthalene	38.9	2.00	"	50.0	0.150	77.5	70-130			
o-Xylene	40.3	1.00	"	50.0	ND	80.6	70-130			
Toluene	40.0	1.00	"	50.0	ND	80.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.9	70-130			
Surrogate: Toluene-d8	65		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	70-130			

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - McBain (BainBridge) #1

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3I2056 - EPA 5030B (Water)

Matrix Spike Dup (B3I2056-MSD1)	Source: Y309427-01			Prepared: 09/20/2023 Analyzed: 09/22/2023						
1,2,4-Trimethylbenzene	42.4	2.00	ug/L	50.0	0.270	84.3	70-130	5.35	20	
1,3,5-Trimethylbenzene	43.6	2.00	"	50.0	ND	87.1	70-130	5.55	20	
Benzene	43.0	1.00	"	50.0	ND	85.9	70-130	6.81	20	
Ethylbenzene	41.8	1.00	"	50.0	0.190	83.3	70-130	2.59	20	
m,p-Xylene	84.8	2.00	"	100	ND	84.8	70-130	2.80	20	
Naphthalene	42.3	2.00	"	50.0	0.150	84.2	70-130	8.23	20	
o-Xylene	41.8	1.00	"	50.0	ND	83.7	70-130	3.80	20	
Toluene	41.7	1.00	"	50.0	ND	83.4	70-130	4.14	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.3	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		96.9	70-130			

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - McBain (BainBridge) #1

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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.



September 29, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - McBain (BainBridge) #1 Project Number - [none]

Attached are your analytical results for Noble - McBain (BainBridge) #1 received by Origins Laboratory, Inc. September 19, 2023. This project is associated with Origins project number Y309428-01.

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

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

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

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

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

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



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - McBain (BainBridge) #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y309428-01	Water	September 19, 2023 10:20	09/19/2023 15:15
MW-02	Y309428-02	Water	September 19, 2023 10:25	09/19/2023 15:15
MW-03	Y309428-03	Water	September 19, 2023 10:35	09/19/2023 15:15
MW-04	Y309428-04	Water	September 19, 2023 10:40	09/19/2023 15:15
MW-05	Y309428-05	Water	September 19, 2023 10:50	09/19/2023 15:15

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - McBain (BainBridge) #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y309428 Client: Eagle
 Checklist Completed by: TST/CHS Client Project ID: McBain #1
 Date/time completed: 9/20/13 Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1, 6 °C / _____ °C / _____ °C (Describe)
 Thermometer ID: T004

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

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 9/20/13

Origins Laboratory, Inc.

[Signature]

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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - McBain (BainBridge) #1

MW-01

9/19/2023 10:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y309428-01 (Water)**

Anions by IC 300.0

Chloride	130	31.2	mg/L	125	B312101	ACC	09/21/2023	09/21/2023	
Sulfate	302	31.2	"	"	"	ACC	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1070	5.00	"	1	B312526	JC	09/25/2023	09/26/2023	
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Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - McBain (BainBridge) #1

MW-02

9/19/2023 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y309428-02 (Water)

Anions by IC 300.0

Chloride	125	31.2	mg/L	125	B312101	ACC	09/21/2023	09/22/2023	
Sulfate	303	31.2	"	"	"	ACC	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1130	5.00	"	1	B312526	JC	09/25/2023	09/26/2023	
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Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - McBain (BainBridge) #1

MW-03

9/19/2023 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309428-03 (Water)

Anions by IC 300.0

Chloride	125	31.2	mg/L	125	B312101	ACC	09/21/2023	09/22/2023	
Sulfate	273	31.2	"	"	"	ACC	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	990	5.00	"	1	B312526	JC	09/25/2023	09/26/2023	
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Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - McBain (BainBridge) #1

MW-04

9/19/2023 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309428-04 (Water)

Anions by IC 300.0

Chloride	127	31.2	mg/L	125	B312101	ACC	09/21/2023	09/22/2023	
Sulfate	286	31.2	"	"	"	ACC	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1050	5.00	"	1	B312526	JC	09/25/2023	09/26/2023	
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Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - McBain (BainBridge) #1

MW-05

9/19/2023 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y309428-05 (Water)

Anions by IC 300.0

Chloride	123	31.2	mg/L	125	B312101	ACC	09/21/2023	09/22/2023	
Sulfate	299	31.2	"	"	"	ACC	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1180	5.00	"	1	B312526	JC	09/25/2023	09/26/2023	
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Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - McBain (BainBridge) #1

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3I2101 - Filter .45um non acidified										
Blank (B3I2101-BLK1)					Prepared: 09/21/2023 Analyzed: 09/21/2023					
Chloride	ND	0.250	mg/L							U
Sulfate	ND	0.250	"							U
LCS (B3I2101-BS1)					Prepared: 09/21/2023 Analyzed: 09/21/2023					
Chloride	3.97	0.250	mg/L	4.00		99.1	90-110			
Sulfate	3.91	0.250	"	4.00		97.8	90-110			
Matrix Spike (B3I2101-MS1)		Source: Y309393-05			Prepared: 09/21/2023 Analyzed: 09/21/2023					
Chloride	546		mg/L	500	31.5	103	90-110			
Sulfate	1150		"	500	608	108	90-110			
Matrix Spike Dup (B3I2101-MSD1)		Source: Y309393-05			Prepared: 09/21/2023 Analyzed: 09/21/2023					
Chloride	539		mg/L	500	31.5	101	90-110	1.24		5
Sulfate	1140		"	500	608	107	90-110	0.194		5
Batch B3I2526 - NO PREP										
Blank (B3I2526-BLK1)					Prepared: 09/25/2023 Analyzed: 09/26/2023					
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B3I2526-BS1)					Prepared: 09/25/2023 Analyzed: 09/26/2023					
Total Dissolved Solids	1000	5.00	mg/L	1000		100	90-110			
Duplicate (B3I2526-DUP1)		Source: Y309384-01			Prepared: 09/25/2023 Analyzed: 09/26/2023					
Total Dissolved Solids	750	5.00	mg/L		756			0.797		10

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - McBain (BainBridge) #1

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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.



September 26, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - McBain (BainBridge) #1 Project Number - [none]

Attached are your analytical results for Noble - McBain (BainBridge) #1 received by Origins Laboratory, Inc. September 19, 2023. This project is associated with Origins project number Y309430-01.

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

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

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

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

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

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



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - McBain (BainBridge) #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y309430-01	Water	September 19, 2023 10:20	09/19/2023 15:15
MW-02	Y309430-02	Water	September 19, 2023 10:25	09/19/2023 15:15
MW-03	Y309430-03	Water	September 19, 2023 10:30	09/19/2023 15:15
MW-04	Y309430-04	Water	September 19, 2023 10:40	09/19/2023 15:15
MW-05	Y309430-05	Water	September 19, 2023 10:50	09/19/2023 15:15

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - McBain (BainBridge) #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y309430

Client: Eagle

Client Project ID: McBain #1

Checklist Completed by: TJM/ert

Shipped Via: FD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 9/20/12

Airbill #: N/A

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

Cooler Number/Temperature: 1/6 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 9/21/12

Origins Laboratory, Inc.

[Signature]

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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - McBain (BainBridge) #1

MW-01

9/19/2023 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y309430-01 (Water)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0076	0.02	µg/L	1	L705959	09/21/2023	09/21/2023	
2-Methylnaphthalene	ND	0.0185	0.02	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	115 %		70-130			"	"	"	
Surrogate: 4-Terphenyl-d14	56.8 %		70-130			"	"	"	*

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - McBain (BainBridge) #1

MW-02

9/19/2023 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y309430-02 (Water)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0076	0.02	µg/L	1	L705959	09/21/2023	09/21/2023	
2-Methylnaphthalene	ND	0.0185	0.02	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	120 %		70-130			"	"	"	
Surrogate: 4-Terphenyl-d14	71 %		70-130			"	"	"	

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

Martin C Eckert III
Project Number: [none]
Project: Noble - McBain (BainBridge) #1

MW-03

9/19/2023 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y309430-03 (Water)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0076	0.02	µg/L	1	L705959	09/21/2023	09/21/2023	
2-Methylnaphthalene	ND	0.0185	0.02	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	110 %		70-130			"	"	"	
Surrogate: 4-Terphenyl-d14	71.6 %		70-130			"	"	"	

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - McBain (BainBridge) #1

MW-04

9/19/2023 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y309430-04 (Water)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0076	0.02	µg/L	1	L705959	09/21/2023	09/21/2023	
2-Methylnaphthalene	ND	0.0185	0.02	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	116 %		70-130			"	"	"	
Surrogate: 4-Terphenyl-d14	63.7 %		70-130			"	"	"	*

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

Martin C Eckert III
Project Number: [none]
Project: Noble - McBain (BainBridge) #1

MW-05

9/19/2023 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y309430-05 (Water)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0076	0.02	µg/L	1	L705959	09/21/2023	09/21/2023	
2-Methylnaphthalene	ND	0.0185	0.02	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	114 %		70-130			"	"	"	
Surrogate: 4-Terphenyl-d14	64.4 %		70-130			"	"	"	*

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - McBain (BainBridge) #1

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L705959 - 3511										
LCSD (LCSD-L705959)					Prepared: 09/21/2023 Analyzed: 09/21/2023					
2-Methylnaphthalene	3.14	0.02	µg/L	3.03		104	60-140	1.2	20	
1-Methylnaphthalene	3.08	0.02	"	3.03		102	60-140	0.3	20	
Surrogate: 4-Terphenyl-d14	74.5		"	3.03		74.5	70-130			
Surrogate: 2-Fluorobiphenyl	119		"	3.03		119	70-130			
LCS (LCS-L705959)					Prepared: 09/21/2023 Analyzed: 09/21/2023					
2-Methylnaphthalene	3.18	0.02	µg/L	3.03		105	60-140			
1-Methylnaphthalene	3.09	0.02	"	3.03		102	60-140			
Surrogate: 4-Terphenyl-d14	76.8		"	3.03		76.8	70-130			
Surrogate: 2-Fluorobiphenyl	117		"	3.03		117	70-130			
LRB (LRB-L705959)					Prepared: 09/21/2023 Analyzed: 09/21/2023					
2-Methylnaphthalene	ND	0.02	µg/L				-			
1-Methylnaphthalene	ND	0.02	"				-			
Surrogate: 4-Terphenyl-d14	84.8		"	3.03		84.8	70-130			
Surrogate: 2-Fluorobiphenyl	117		"	3.03		117	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - McBain (BainBridge) #1

Notes and Definitions

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager