



## **FIGURES**

**Figure 1: Topographic Site Location Map**

**Figure 2: Aerial Site Location Map**

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

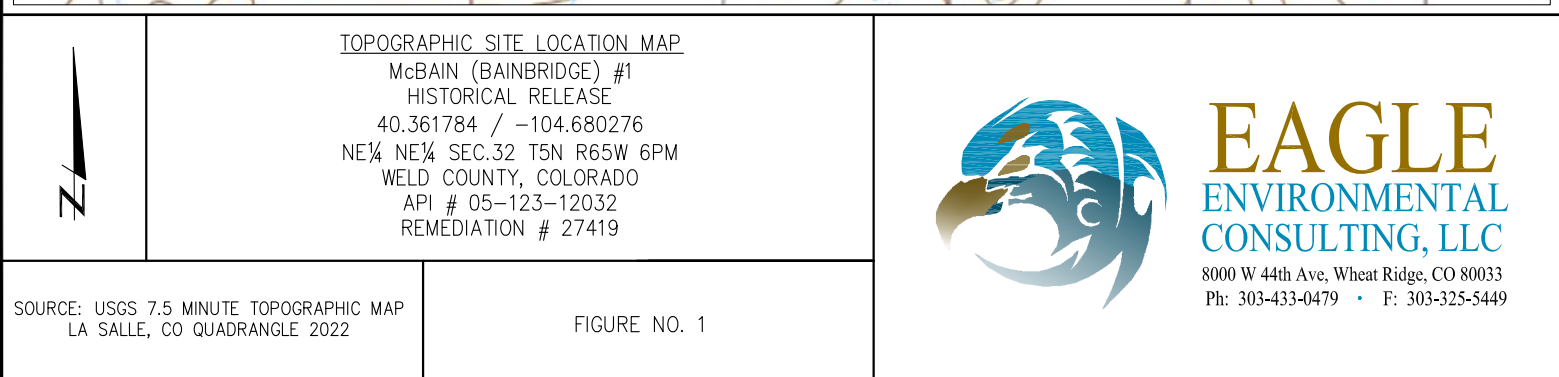
**Figure 4: Polycyclic Aromatic Hydrocarbons Map (8/23/23)**

**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)**

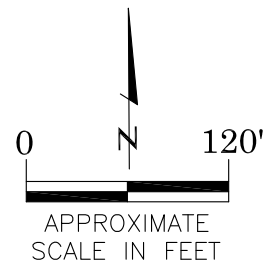
**Figure 8: Groundwater Elevation Map (9/19/23)**





#### LEGEND

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



#### AERIAL SITE LOCATION MAP

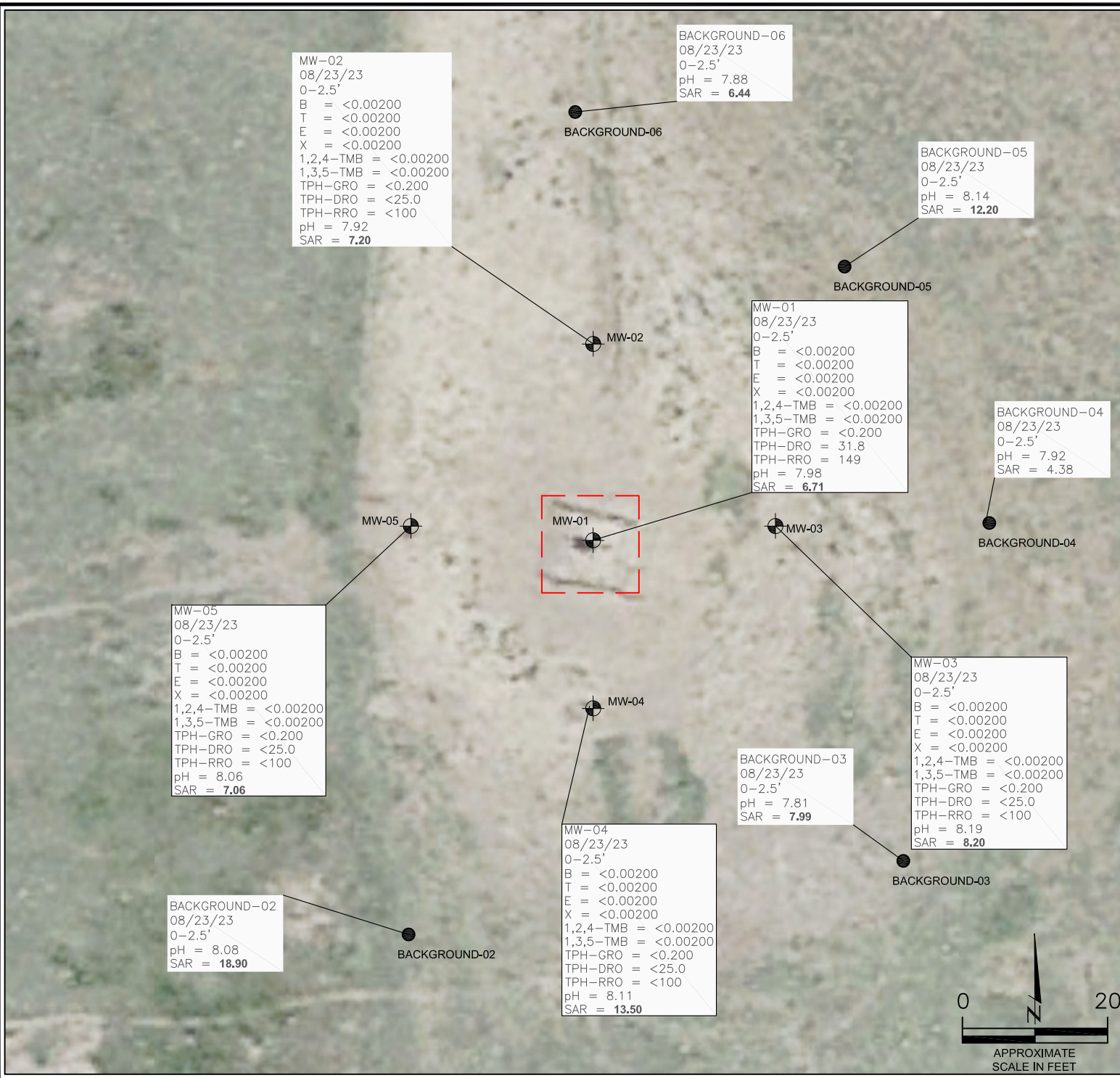
McBAIN (BAINBRIDGE) #1  
 HSITORICAL RELEASE  
 40.361784 / -104.680276  
 NE¼ NE¼ SEC.32 T5N R65W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-12032  
 REMEDIATION # 27419

FIGURE NO.  
2

DRAWN BY:  
EL



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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.

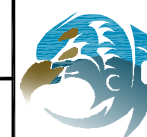
ECMC = ENERGY AND CARBON MANAGEMENT  
COMMISSION

## SOIL ANALYTICAL MAP (08/23/23)

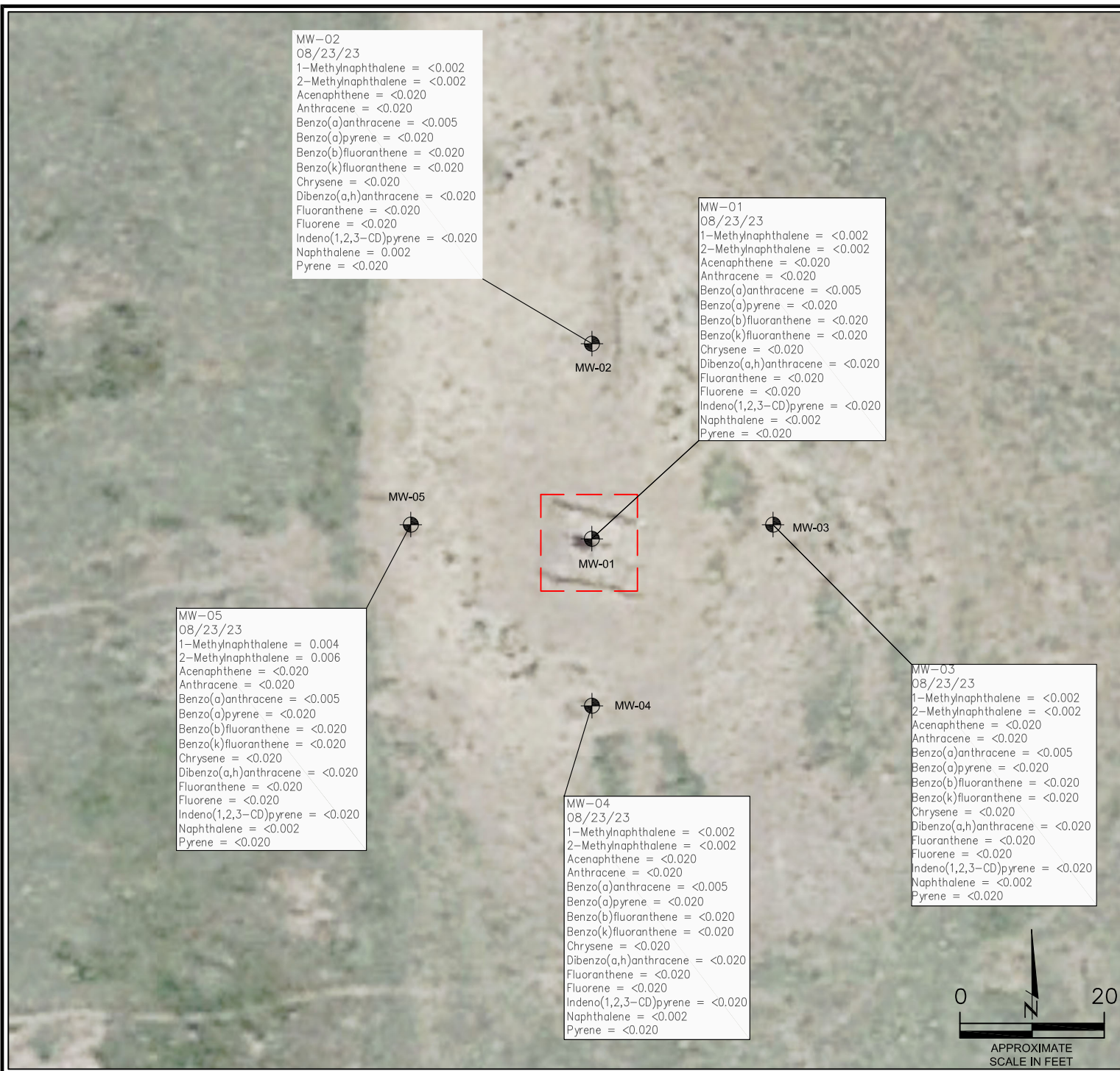
McBAIN (BAINBRIDGE) #1  
HISTORICAL RELEASE  
40.361784 / -104.680276  
NE¼ NE¼ SEC.32 T5N R65W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-12032  
REMEDATION # 27419

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

NE¼ NE¼ SEC.32 T5N R65W 6PM

WELD COUNTY, COLORADO

API # 05-123-12032

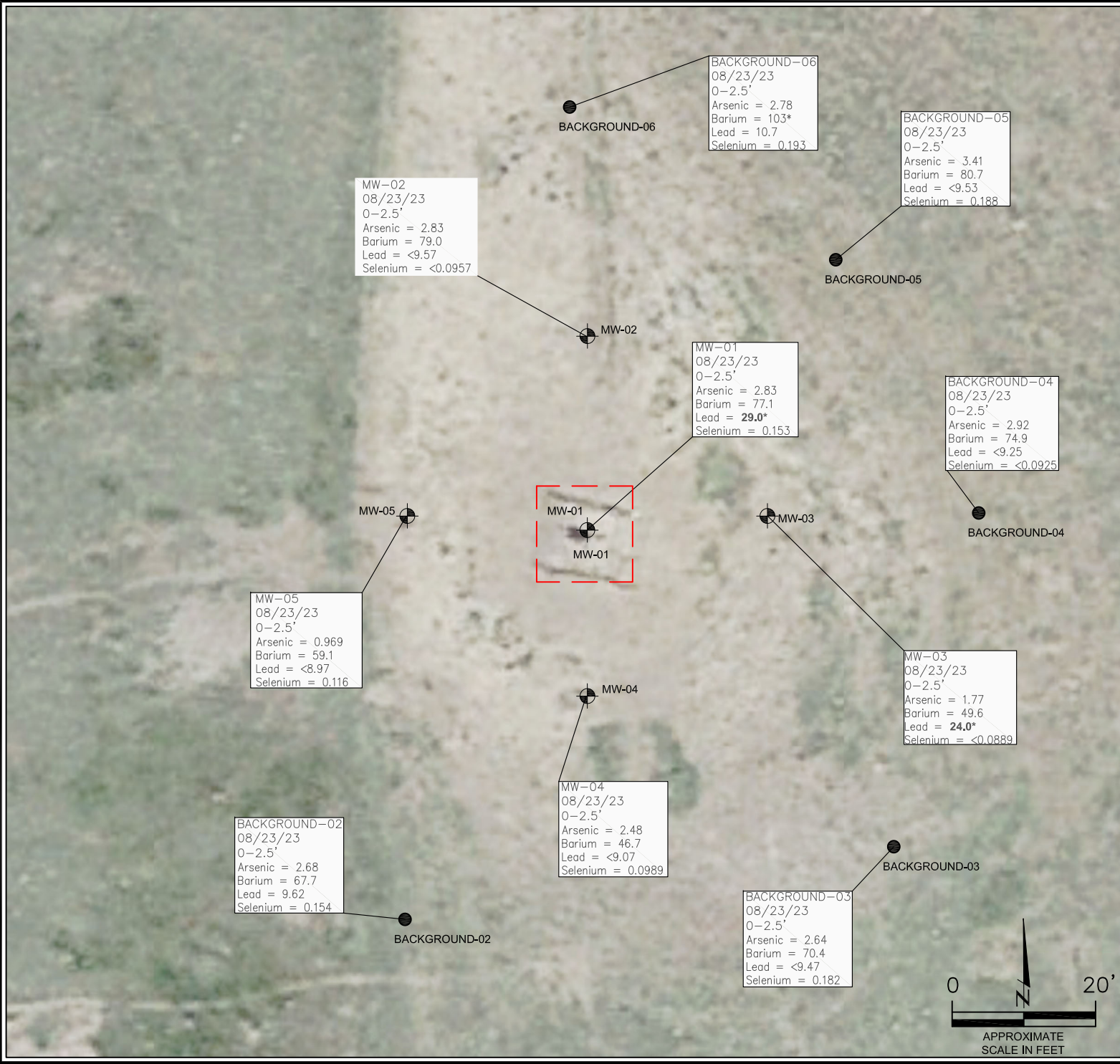
REMEDIATION # 27419

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  
REMEDATION # 27419

FIGURE NO.  
5

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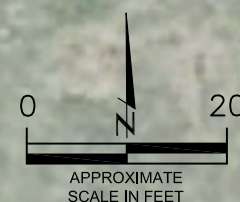
MW-02  
09/19/23  
B = <1.00  
T = <1.00  
E = <1.00  
X = <1.00  
N = <2.00  
1,2,4-TMB = <2.00  
1,3,5-TMB = <2.00  
1-MN = <0.02  
2-MN = <0.02

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

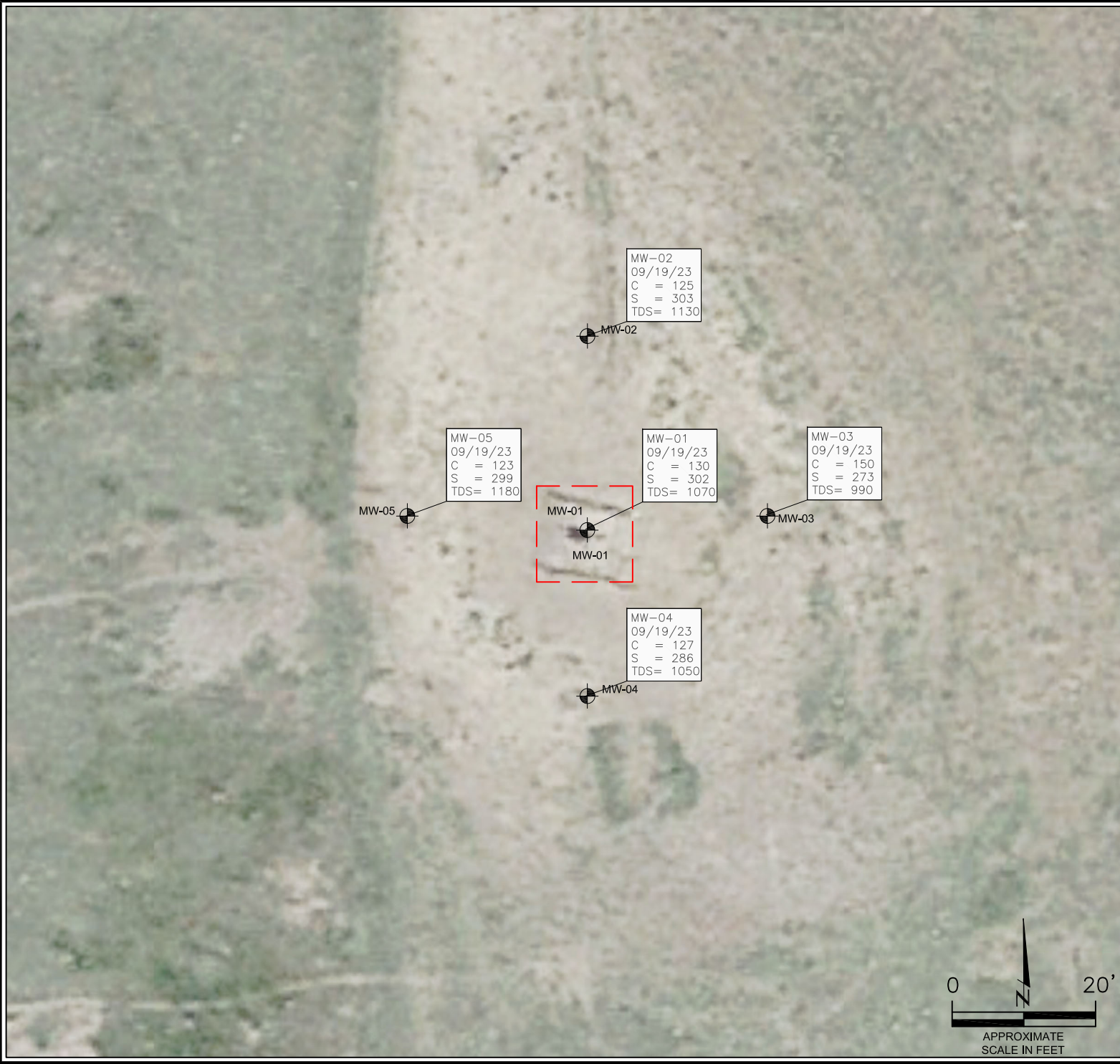
MW-05  
09/19/23  
B = <1.00  
T = <1.00  
E = <1.00  
X = <1.00  
N = <2.00  
1,2,4-TMB = <2.00  
1,3,5-TMB = <2.00  
1-MN = <0.02  
2-MN = <0.02

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



APPROXIMATE  
SCALE IN FEET



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

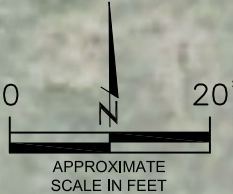


FIGURE NO.

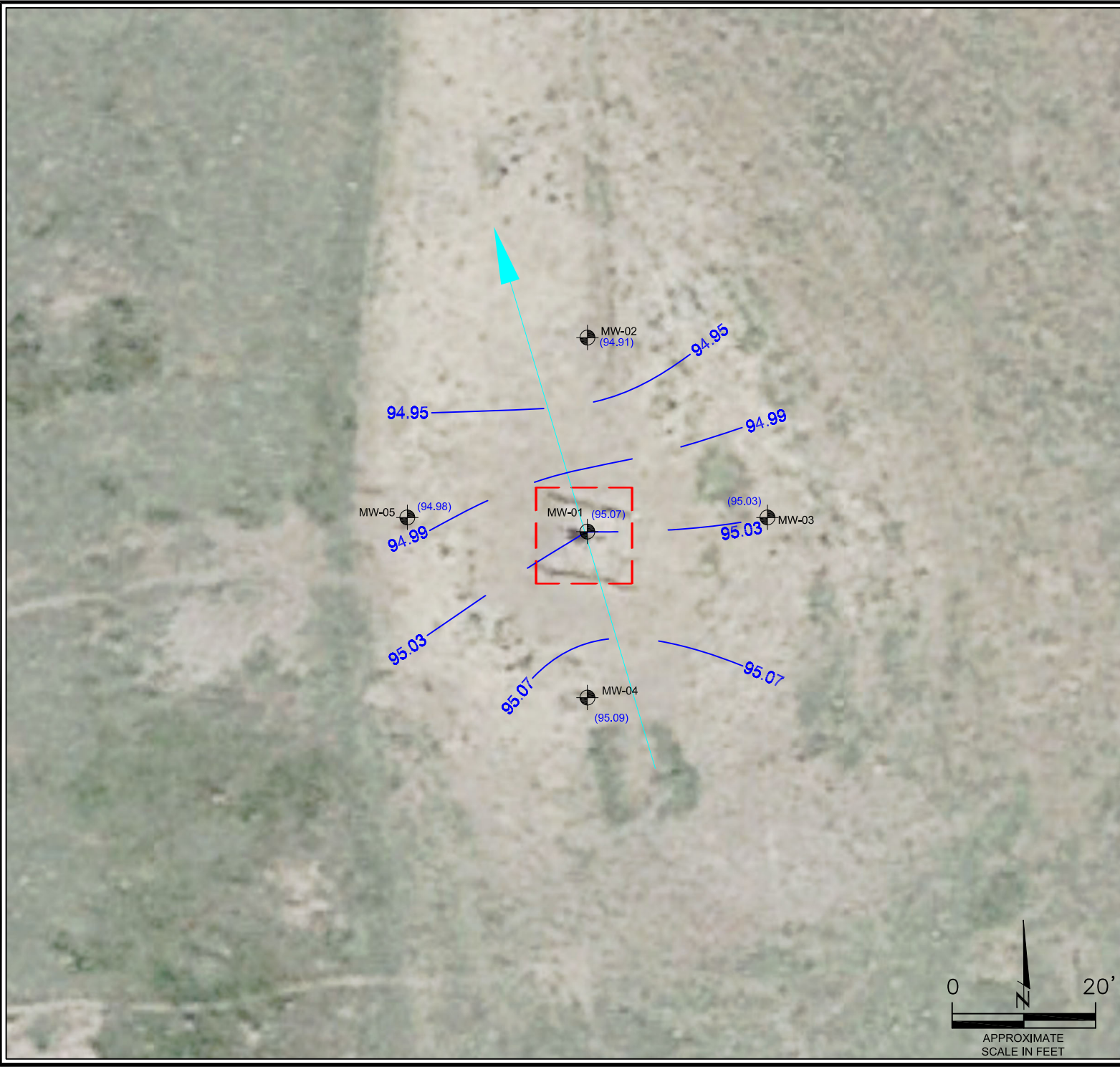
7

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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	<0.00200	<0.00200	NA
Toluene	mg/kg	490	0.69	--	<0.00200	<0.00200	<0.00200	<0.00200	NA
Ethylbenzene	mg/kg	5.8	0.78	--	0.00470	<0.00200	0.0274	<0.00200	NA
Total Xylenes	mg/kg	58	9.9	--	<0.00200	<0.00200	0.0413	<0.00200	NA
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	0.00546	<0.00200	<b>0.0247*</b>	<0.00200	NA
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	<0.00200	<0.00200	<b>0.0329*</b>	<0.00200	NA
TOTAL PETROLEUM HYDROCARBONS									
TPH-GRO	mg/kg	500	--	--	<0.200	<0.200	0.524	<0.200	NA
TPH-DRO	mg/kg	500	--	--	214	<25.0	<25.0	33.5	NA
TPH-RRO	mg/kg	500	--	--	125	<100	<100	<100	NA
POLYCYCLIC AROMATIC HYDROCARBONS									
1-Methyl-naphthalene	mg/kg	18	0.006	--	0.00469	<0.00201	<b>0.027*</b>	<0.00201	NA
2-Methyl-naphthalene	mg/kg	24	0.019	--	0.00613	<0.00201	<b>0.042*</b>	<0.00201	NA
Acenaphthene	mg/kg	360	0.55	--	0.00908	<0.00067	0.00386	0.00082	NA
Anthracene	mg/kg	1800	5.8	--	<0.00067	<0.00067	<0.00067	<0.00067	NA
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	<0.00067	<0.00067	<0.00067	<0.00067	NA
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	<0.00067	<0.00067	<0.00067	<0.00067	NA
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	<0.00067	<0.00067	<0.00067	<0.00067	NA
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	<0.00067	<0.00067	<0.00067	<0.00067	NA
Chrysene	mg/kg	110	9	--	0.000825	<0.00067	0.00152	0.00119	NA
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	<0.00067	<0.00067	<0.00067	<0.00067	NA
Fluoranthene	mg/kg	240	8.9	--	<0.00067	<0.00067	<0.00067	<0.00067	NA
Fluorene	mg/kg	240	0.54	--	0.00857	0.000382	0.00744	0.000587	NA
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	<0.00067	<0.00067	<0.00067	<0.00067	NA
Naphthalene	mg/kg	2	0.0038	--	<b>0.00433*</b>	<0.00201	<b>0.00998*</b>	<0.00201	NA
Pyrene	mg/kg	180	1.3	--	0.0011	<0.00067	0.000883	0.00112	NA
SOIL SUITABILITY (Inorganics)									
Boron	mg/L	2	--	--	1.74	0.745	1.12	<0.985	NA
pH	standard unit	6-8.3	--	--	<b>8.76 (7.94)</b>	<b>8.72 (7.84)</b>	8.04	8.18	8.16
Sodium Adsorption Ratio (SAR)	--	<6	--	--	<b>7.50 (7.48/7.55)</b>	3.95	4.83	<b>6.75 (6.87/6.60)</b>	5.95
Specific Conductance (EC)	mmhos/cm	<4	--	--	0.543	0.611	2.33	2.92	NA
METALS									
Arsenic	mg/kg	0.68	0.29	4.36	3.54	NA	3.5	NA	2.47
Barium	mg/kg	15000	82	129	<b>151*</b>	NA	103*	NA	83.2*
Cadmium	mg/kg	71	0.38	--	0.217	NA	0.192	NA	0.136
Copper	mg/kg	3100	46	--	18.2	NA	18.6	NA	10.0
Lead	mg/kg	400	14	--	<b>25.4*</b>	NA	<b>37.0*</b>	NA	9.89
Nickel	mg/kg	1500	26	--	9.82	NA	<8.99	NA	<8.58
Selenium	mg/kg	390	0.26	--	<b>0.269*</b>	NA	<b>0.314*</b>	NA	0.121
Silver	mg/kg	390	0.8	--	<0.0916	NA	<0.0899	NA	<0.0858
Zinc	mg/kg	23000	370	--	<91.6	NA	<89.9	NA	<85.8
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	<1.24**(1)	NA	<0.488**	NA	NA
ECMC = Energy and Carbon Management Commission mg/kg = milligrams per kilogram mmhos/cm = millimhos per centimeter PID = Photoionization Detector ppm-v = parts per million by volume mg/L = milligrams per liter SAR = Sodium Adsorption Ratio Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit  Elevated metals are naturally occurring in Colorado. The Local Clean-up Levels are 1.25*Background high concentrations, where applicable. Values presented in <b>BOLD</b> 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	<0.00200	<0.00200	<0.00200
Toluene	mg/kg	490	0.69	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Ethylbenzene	mg/kg	5.8	0.78	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Total Xylenes	mg/kg	58	9.9	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
TOTAL PETROLEUM HYDROCARBONS									
TPH-GRO	mg/kg	500	--	--	<0.200	<0.200	<0.200	<0.200	<0.200
TPH-DRO	mg/kg	500	--	--	31.8	<25.0	<25.0	<25.0	<25.0
TPH-RRO	mg/kg	500	--	--	149	<100	<100	<100	<100
POLYCYCLIC AROMATIC HYDROCARBONS									
1-Methyl-naphthalene	mg/kg	18	0.006	--	<0.002	<0.002	<0.002	<0.002	0.004
2-Methyl-naphthalene	mg/kg	24	0.019	--	<0.002	<0.002	<0.002	<0.002	0.006
Acenaphthene	mg/kg	360	0.55	--	<0.020	<0.020	<0.020	<0.020	<0.020
Anthracene	mg/kg	1800	5.8	--	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	<0.005	<0.005	<0.005	<0.005	<0.005
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	<0.020	<0.020	<0.020	<0.020	<0.020
Chrysene	mg/kg	110	9	--	<0.020	<0.020	<0.020	<0.020	<0.020
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	<0.020	<0.020	<0.020	<0.020	<0.020
Fluoranthene	mg/kg	240	8.9	--	<0.020	<0.020	<0.020	<0.020	<0.020
Fluorene	mg/kg	240	0.54	--	<0.020	<0.020	<0.020	<0.020	<0.020
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	<0.020	<0.020	<0.020	<0.020	<0.020
Naphthalene	mg/kg	2	0.0038	--	<0.002	0.002	<0.002	<0.002	<0.002
Pyrene	mg/kg	180	1.3	--	<0.020	<0.020	<0.020	<0.020	<0.020
SOIL SUITABILITY (Inorganics)									
Boron	mg/L	2	--	--	NA	NA	NA	NA	NA
pH	standard unit	6-8.3	--	--	7.98	7.92	8.19	8.11	8.06
Sodium Adsorption Ratio (SAR)	--	<6	--	--	<b>6.71</b>	<b>7.20</b>	<b>8.20</b>	<b>13.50</b>	<b>7.06</b>
Specific Conductance (EC)	mmhos/cm	<4	--	--	NA	NA	NA	NA	NA
METALS									
Arsenic	mg/kg	0.68	0.29	4.36	2.83	2.83	1.77	2.48	0.969
Barium	mg/kg	15000	82	129	77.1	79.0	49.6	46.7	59.1
Cadmium	mg/kg	71	0.38	--	NA	NA	NA	NA	NA
Copper	mg/kg	3100	46	--	NA	NA	NA	NA	NA
Lead	mg/kg	400	14	--	<b>29.0*</b>	<9.57	<b>24.0*</b>	<9.07	<8.97
Nickel	mg/kg	1500	26	--	NA	NA	NA	NA	NA
Selenium	mg/kg	390	0.26	--	0.153	<0.0957	<0.0889	0.0989	0.116
Silver	mg/kg	390	0.8	--	NA	NA	NA	NA	NA
Zinc	mg/kg	23000	370	--	NA	NA	NA	NA	NA
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	NA	NA	NA	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 <b>BOLD</b> 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'	Background-03 @ 0-2.5'	Background-04 @ 0-2.5'	Background-05 @ 0-2.5'	Background-06 @ 0-2.5'
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	NA	NA	NA
Toluene	mg/kg	490	0.69	--	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	5.8	0.78	--	NA	NA	NA	NA	NA
Total Xylenes	mg/kg	58	9.9	--	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	NA	NA	NA	NA	NA
TOTAL PETROLEUM HYDROCARBONS									
TPH-GRO	mg/kg	500	--	--	NA	NA	NA	NA	NA
TPH-DRO	mg/kg	500	--	--	NA	NA	NA	NA	NA
TPH-RRO	mg/kg	500	--	--	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS									
1-Methyl-naphthalene	mg/kg	18	0.006	--	NA	NA	NA	NA	NA
2-Methyl-naphthalene	mg/kg	24	0.019	--	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	360	0.55	--	NA	NA	NA	NA	NA
Anthracene	mg/kg	1800	5.8	--	NA	NA	NA	NA	NA
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	NA	NA	NA	NA	NA
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	NA	NA	NA	NA	NA
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	NA	NA	NA	NA	NA
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	NA	NA	NA	NA	NA
Chrysene	mg/kg	110	9	--	NA	NA	NA	NA	NA
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	240	8.9	--	NA	NA	NA	NA	NA
Fluorene	mg/kg	240	0.54	--	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	NA	NA	NA	NA	NA
Naphthalene	mg/kg	2	0.0038	--	NA	NA	NA	NA	NA
Pyrene	mg/kg	180	1.3	--	NA	NA	NA	NA	NA
SOIL SUITABILITY (Inorganics)									
Boron	mg/L	2	--	--	NA	NA	NA	NA	NA
pH	standard unit	6-8.3	--	--	8.08	7.81	7.92	8.14	7.88
Sodium Adsorption Ratio (SAR)	--	<6	--	--	<b>18.90</b>	<b>7.99</b>	4.38	<b>12.20</b>	<b>6.44</b>
Specific Conductance (EC)	mmhos/cm	<4	--	--	NA	NA	NA	NA	NA
METALS									
Arsenic	mg/kg	0.68	0.29	4.36	2.68	2.64	2.92	3.41	2.78
Barium	mg/kg	15000	82	129	67.7	70.4	74.9	80.7	103*
Cadmium	mg/kg	71	0.38	--	NA	NA	NA	NA	NA
Copper	mg/kg	3100	46	--	NA	NA	NA	NA	NA
Lead	mg/kg	400	14	--	9.62	<9.47	<9.25	<9.53	10.7
Nickel	mg/kg	1500	26	--	NA	NA	NA	NA	NA
Selenium	mg/kg	390	0.26	--	0.154	0.182	<0.0925	0.188	0.193
Silver	mg/kg	390	0.8	--	NA	NA	NA	NA	NA
Zinc	mg/kg	23000	370	--	NA	NA	NA	NA	NA
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	NA	NA	NA	NA	NA
ECMC = Energy and Carbon Management Commission mg/kg = milligrams per kilogram mmhos/cm = millimhos per centimeter PID = Photoionization Detector ppm-v = parts per million by volume mg/L = milligrams per liter SAR = Sodium Adsorption Ratio  Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit  Elevated metals are naturally occurring in Colorado. The Local Clean-up Levels are 1.25*Background high concentrations, where applicable. Values presented in <b>BOLD</b> 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	<b>31.4</b>	166	27.1	429	3.76	<b>78.8</b>	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 <b>BOLD</b> 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
ECMC = Energy and Carbon Management Commission mg/L - milligrams per liter  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). Values presented in <b>bold</b> typeface exceed their respective ECMC - Regulatory Limits (Table 915-1).				

**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
NOTES: LNAPL = Light Non Aqueous Phase Liquid TOC = top of casing NA = Not Applicable NM = Not Measured bgs = below ground surface DES = Destroyed INA - Inaccessible						



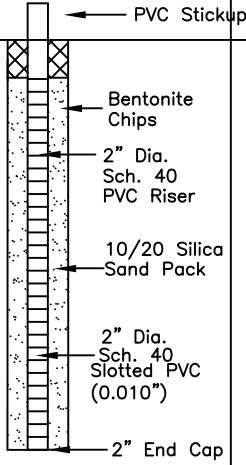
## **ATTACHMENT A**

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

# Boring Log/Well Completion Diagram:

MW-01

PAGE 1 OF 1

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	DP	1	70	0.8	N/A			
	@~3' - wet					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	DP	2	90	0.1	N/A			
	(9-10') poorly-graded SAND - light brown, wet, very loose, fine grained with ~15% silt, N/O, N/S	SP				0.1				
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



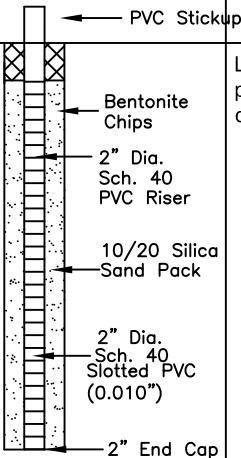
**EAGLE**  
ENVIRONMENTAL  
CONSULTING, LLC

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

# Boring Log/Well Completion Diagram:

MW-02

PAGE 1 OF 1

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 <sub>3</sub> , black staining and N/O. @~3' - wet	SC	DP	1	80	0.4	N/A			Loose, wet sands prevented screening deeper than 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				0.5		5		
			DP	2	N/A	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		10		
	BoB @ 10'									
15								15		
20								20		
25								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: 1055/1110

SAMPLE COLLECTION DEPTH (FT.)/TIME: 0-2.5/1100



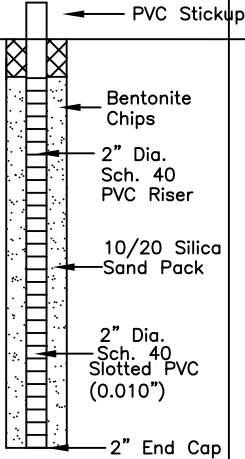
**EAGLE**  
ENVIRONMENTAL  
CONSULTING, LLC

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

# Boring Log/Well Completion Diagram:

MW-03

PAGE 1 OF 1

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') gravelly 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			
	(3-5') 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') gravelly 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	5		
	(9-10') poorly-graded SAND - light brown, wet, very loose, fine grained with ~15% silt, N/O, N/S	SP				0.7		10		
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

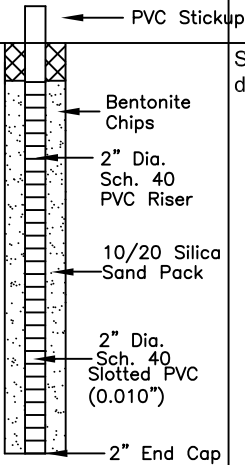
TIME STARTED/COMPLETED: 1115/1125

SAMPLE COLLECTION DEPTH (FT.)/TIME: 0-2.5/1120



**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	(0-2.5') clayey SAND - light brown to black, dry, medium dense, fine to medium grained, moderately-graded with ~15% clay, CaCO <sub>3</sub> , HC odor and black staining @~3' - wet	SC	DP	1	70	1.6	N/A		 <p>PVC Stickup</p> <p>Bentonite Chips</p> <p>2" Dia. Sch. 40 PVC Riser</p> <p>10/20 Silica Sand Pack</p> <p>2" Dia. Sch. 40 Slotted PVC (0.010")</p> <p>2" End Cap</p>	Stopped logging at 5' due to wet sands.
5	(2.5-5') gravely SAND - light brown, wet, loose, medium to coarse grained, moderately-graded with ~40% small gravel, N/O, N/S	SM				1.3		5		
10	BoB @ 10'							10		
15								15		
20								20		
25								25		
30								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

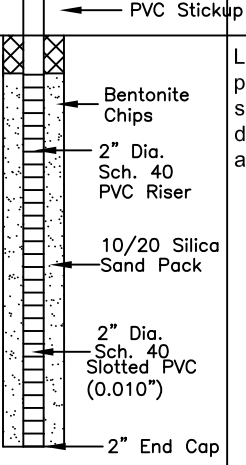
TIME STARTED/COMPLETED: 1000/1015

SAMPLE COLLECTION DEPTH (FT.)/TIME: 0-2.5/1010



**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	(0-2.5') clayey SAND - light brown to black, dry, medium dense, fine to medium grained, moderately-graded with ~15% clay, N/O, black staining @~3' - wet	SC	DP	1	70	0.4	N/A			Loose, wet sands prevented sampling/screening deeper than approximately 7.5'-10'
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	DP	2	70	0.3	N/A	5		
10	(9-10') poorly-graded SAND - light brown, wet, very loose, fine grained with ~15% silt, N/O, N/S	SP				0.4	N/A	10		
10	BoB @ 10'					0.1	N/A	10		
15								15		
20								20		
25								25		
30								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



**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, LLC

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



## **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



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 - 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: EH5

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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

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.



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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-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.					

*J. Bynon*

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.



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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-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.



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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-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.



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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)**

**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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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)**

**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	"	"	"	"

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)

### 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	"	"	

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
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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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

### 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			

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 (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
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
<b>Batch B3H2519 - EPA 5030 (soil)</b>										
<b>LCS (B3H2519-BS1)</b>					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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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
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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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
<b>Batch B3H2519 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B3H2519-MSD1)</b>	<b>Source: Y308582-01</b>				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			

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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

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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
<b>Batch B3H2334 - EPA 3050B</b>										
<b>Matrix Spike (B3H2334-MS1)</b>		<b>Source: Y308598-01</b>			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
<b>Matrix Spike Dup (B3H2334-MSD1)</b>		<b>Source: Y308598-01</b>			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	

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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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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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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	

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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
<b>Batch B3H2526 - EPA 3580</b>										
<b>Matrix Spike Dup (B3H2526-MSD1)</b>			<b>Source: Y308597-01</b>		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			

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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
<b>Batch B3H3002 - Saturated Paste Metals</b>										
<b>Blank (B3H3002-BLK1)</b>					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	"							
<b>Duplicate (B3H3002-DUP1)</b>					<b>Source: Y308577-01</b>		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	

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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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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.

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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.

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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

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4308607

page 1 of 1

**ORIGINS**  
LABORATORY, INC

Client: Eagle Environmental Consulting  
Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
Telephone Number: 303-433-1079  
Email Address: martin@eagle-environ.com

Project Manager: Martin Eckert III  
Project Name: Macbain (Bainbridge) #1  
Project Number: —  
Samples Collected By: EL/SL

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis					Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other	SAE-205	Aspartic	Benzoic	Lead	
Background-03@0-2.5'	8/23/13	11:55	2	X				X				X	X	X	X	SAE-205 - Submitted
Background-05@0-2.5'		12:02														paste prep
Background-08@0-2.5'		12:05														
Background-09@0-2.5'		12:10														*MDS needed
Background-10@0-2.5'		12:11														

Temp Received: 5.5 Date Results Needed: 8/26/13

Origins Laboratory, Inc.

*J. Bynon*

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: 4308607

Client: Macbain (Bainbridge) #15

Client Project ID: Eagle

Checklist Completed by: EHS

Shipped Via: HO  
(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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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



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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
<b>Batch B3H2334 - EPA 3050B</b>										
<b>Matrix Spike (B3H2334-MS1)</b>		<b>Source: Y308598-01</b>			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
<b>Matrix Spike Dup (B3H2334-MSD1)</b>		<b>Source: Y308598-01</b>			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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3H3002 - Saturated Paste Metals</b>										
<b>Blank (B3H3002-BLK1)</b>					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	"							
<b>Duplicate (B3H3002-DUP1)</b>					<b>Source: Y308577-01</b>		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.



*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

### 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.*

Jen Pellegrini For Jordan A. Bynon, Project Manager



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: TST/ELS

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 / 1 °C / 1 °C (Describe)

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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>	<input checked="" type="checkbox"/>	<input 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"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH < 2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NC
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 9/20/23

Origins Laboratory, Inc.

Jefe Pellegrini

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.



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. 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
<b>Batch B3I2056 - EPA 5030B (Water)</b>										
<b>Blank (B3I2056-BLK1)</b>					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.

Jen Pellegrini For Jordan A. Bynon, Project Manager

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
<b>Batch B3I2056 - EPA 5030B (Water)</b>										
<b>LCS (B3I2056-BS1)</b>					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
<b>Batch B3I2056 - EPA 5030B (Water)</b>										
<b>Matrix Spike Dup (B3I2056-MSD1)</b>	<b>Source: Y309427-01</b>				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.*

Jen Pellegrini For Jordan A. Bynon, Project Manager



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.*

es Collected By: EL/AB

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

★ Bill to Dan

Page 3 of 11

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

Client Project ID: McBain #1

Checklist Completed by: TST/CHS

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: (Describe)

Cooler Number/Temperature: 1 / 6 °C / 1 °C / 1 °C / 1 °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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>	<input checked="" type="checkbox"/>	<input 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"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note 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 9/20/23

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 - 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	B3I2101	ACC	09/21/2023	09/21/2023	
Sulfate	302	31.2	"	"	"	ACC	"	"	

### Total Dissolved Solids by 2540C

Total Dissolved Solids	1070	5.00	"	1	B3I2526	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
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## Origins Laboratory, Inc. Y309428-02 (Water)

### Anions by IC 300.0

Chloride	125	31.2	mg/L	125	B3I2101	ACC	09/21/2023	09/22/2023	
Sulfate	303	31.2	"	"	"	ACC	"	"	

### Total Dissolved Solids by 2540C

Total Dissolved Solids	1130	5.00	"	1	B3I2526	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	B3I2101	ACC	09/21/2023	09/22/2023	
Sulfate	273	31.2	"	"	"	ACC	"	"	

### Total Dissolved Solids by 2540C

Total Dissolved Solids	990	5.00	"	1	B3I2526	JC	09/25/2023	09/26/2023	
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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 - 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	B3I2101	ACC	09/21/2023	09/22/2023
Sulfate	286	31.2	"	"	"	ACC	"	"

### Total Dissolved Solids by 2540C

Total Dissolved Solids	1050	5.00	"	1	B3I2526	JC	09/25/2023	09/26/2023
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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 - 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. 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.



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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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3I2101 - Filter .45um non acidified</b>										
<b>Blank (B3I2101-BLK1)</b>					Prepared: 09/21/2023 Analyzed: 09/21/2023					
Chloride	ND	0.250	mg/L							U
Sulfate	ND	0.250	"							U
<b>LCS (B3I2101-BS1)</b>					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			
<b>Matrix Spike (B3I2101-MS1)</b>					<b>Source: Y309393-05</b>		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			
<b>Matrix Spike Dup (B3I2101-MSD1)</b>					<b>Source: Y309393-05</b>		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	
<b>Batch B3I2526 - NO PREP</b>										
<b>Blank (B3I2526-BLK1)</b>					Prepared: 09/25/2023 Analyzed: 09/26/2023					
Total Dissolved Solids	ND	5.00	mg/L							
<b>LCS (B3I2526-BS1)</b>					Prepared: 09/25/2023 Analyzed: 09/26/2023					
Total Dissolved Solids	1000	5.00	mg/L	1000		100	90-110			
<b>Duplicate (B3I2526-DUP1)</b>					<b>Source: Y309384-01</b>		Prepared: 09/25/2023 Analyzed: 09/26/2023			
Total Dissolved Solids	750	5.00	mg/L		756			0.797	10	

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

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.



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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

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: TOM/ERS

Shipped Via: TRV  
(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 / 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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note 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 9/21/23

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 - 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			"	"	"	

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-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	"	"	"

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	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			"	"	"	*

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-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			"	"	"	*

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

**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
<b>Batch L705959 - 3511</b>										
<b>LCSD (LCSD-L705959)</b>					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			
<b>LCS (LCS-L705959)</b>					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			
<b>LRB (LRB-L705959)</b>					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.



*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.*

Jordan A. Bynon, Project Manager