

Wellhead Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional):		Pit Closure <u> </u>		Tank Battery Closure <u> </u>		Flowline Closure 01/18/24 - 01/22/24	Partially Buried Vault Closure <u> </u>
Site Name & COGCC Facility Number: Sater CC #18-17D		Date: 11/14/23				Remediation Project #: 31822	
Associated Wells: 05-123-34613		Age of Site: Years				Number of Photos Attached: 6	
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)						40.314070 / -104.478290	
Estimated Facility Size (acres):							
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) Good Condition							
USCS Soil Type: SC				Estimated Depth to Groundwater: Approx. 20-40'			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed.							
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed.							
Wellhead(s)							
Well API	05-123-34613						
Age	Years						
Condition of surface around wellhead	Good - No Staining or odor						
PID Readings	WH-N: 4.2	WH-E: 4.7	WH-S: 5.6	WH-W: 4.3			
Condition of subsurface (staining present)	Good - No Staining or odor						
PID Readings	2.5	2.2	2.6	4.6	5.8		
Sample taken? Location/Sample ID#	WH-SS-01	WH-SS-02	WH-SS-03	WH-SS-04	WH-FS-01		
Photo Number(s)	See photolog						
Other observations regarding wellheads: Well casing cut/capped following assessment.							
Summary							
Was impacted soil identified? <input checked="" type="checkbox"/> No Yes - less than 10 cubic yards Yes - more than 10 cubic yards							
Total number of samples field screened: 9				Total number of samples collected: 9			
Highest PID Reading: 5.8				Total number of samples submitted to lab for analysis: 1			
If more than 10 cubic yards of impacted soil were observed:							
Vertical extent:				Estimated spill volume:			
Lateral extent: N/A				Volume of soil removed:			
Is additional investigation required?							
Was groundwater encountered during the investigation? <input checked="" type="checkbox"/> No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils							
Measured depth to groundwater:				Was remedial groundwater removal conducted? Yes No			
Date Groundwater was encountered:				Commencement date of removal:			
Sheen on groundwater? Yes No				Volume of groundwater removed prior to sampling:			
Free product observed? Yes No				Volume of groundwater removed post sampling:			
Total number of samples collected:				Total Volume of groundwater removed:			
Total number of samples submitted to lab for analysis:							

Flowline Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional Attachments:	Tank Battery Closure <input type="checkbox"/>	Wellhead Closure 11/14/23	Pit Closure <input type="checkbox"/>	Partially Buried Vault Closure <input type="checkbox"/>
Site Name & COGCC Facility Number: Sater CC #18-17D		Date: 01/18/24 - 01/22/24		Remediation Project #: 31822
Associated Wells: 05-123-34613		Age of Site: Years		Number of Photos Attached: 10
Starting point: (GPS coordinates and descriptions) 40.313966 / -104.478195 at well				
End point: (GPS coordinates and descriptions) 40.316668 / -104.475247 at separator				
USCS Soil Type: SC			Estimated Depth to Groundwater: Approx. 20-40'	
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed.				
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed.				
Flowlines				
Flowline type	O, G, W			
Depth	~4-5'			
Age	Years			
Length	~1290'			
Construction Material	Steel			
Were flowlines pulled?	Yes - Flowline Removed			
Visual Integrity of lines	Good			
Visual impacts if trenched	None observed.			
PID Readings if trenched	1.5	8.4	4.5	1.0 to 7.0
Sample taken? Location/Sample ID#	FL-SS-06	FL-SS-08	FL-SS-09	7 additional bellholes/cut-points for removal field screened-- see PID table
Photo Number(s)	See photolog			
Other observations regarding on location flowlines: Flowline removed. Pt. A assessed during wellhead decommissioning. Flowline terminus/Pt. B at separator and 3 directional changes assessed and lab analyzed. 7 additional cut-points/bellholes for removal field screened.				
Summary				
Was impacted soil identified? <input checked="" type="checkbox"/> No Yes - less than 10 cubic yards Yes - more than 10 cubic yards				
Total number of samples field screened: 10			Total number of samples collected: 10	
Highest PID Reading: 8.4			Total number of samples submitted to lab for analysis: 4	
If more than 10 cubic yards of impacted soil were observed:				
Vertical extent: N/A			Estimated spill volume:	
Lateral extent: N/A			Volume of soil removed:	
Is additional investigation required?				
Was groundwater encountered during the investigation? <input checked="" type="checkbox"/> No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils				
Measured depth to groundwater:			Was remedial groundwater removal conducted? Yes No	
Date Groundwater was encountered:			Commencement date of removal:	
Sheen on groundwater? Yes No			Volume of groundwater removed prior to sampling:	
Free product observed? Yes No			Volume of groundwater removed post sampling:	
Total number of samples collected:			Total Volume of groundwater removed:	
Total number of samples submitted to lab for analysis:				



FIGURES

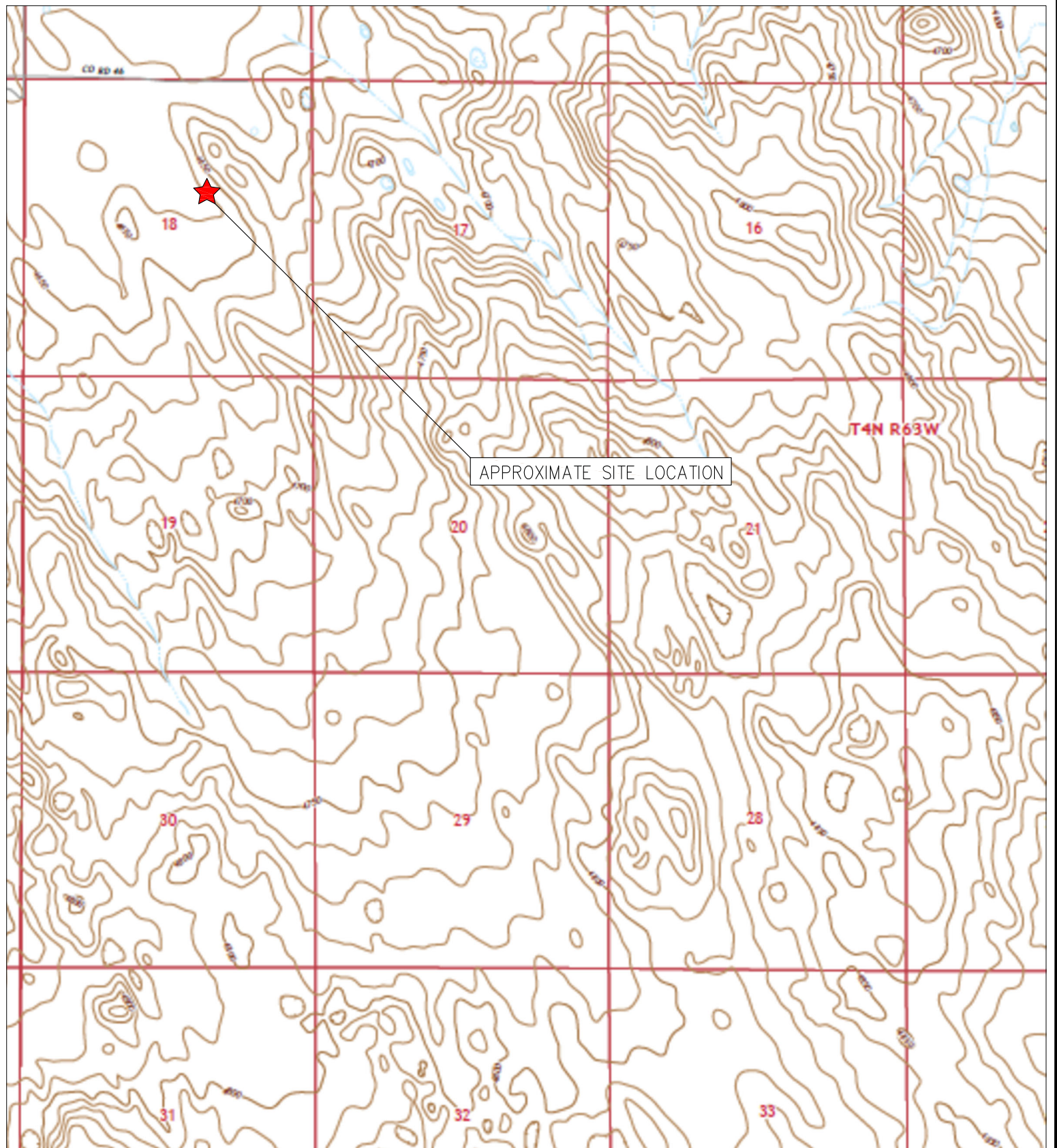
Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map

Figure 4: Polycyclic Aromatic Hydrocarbons Map

Figure 5: Metals in Soil Map

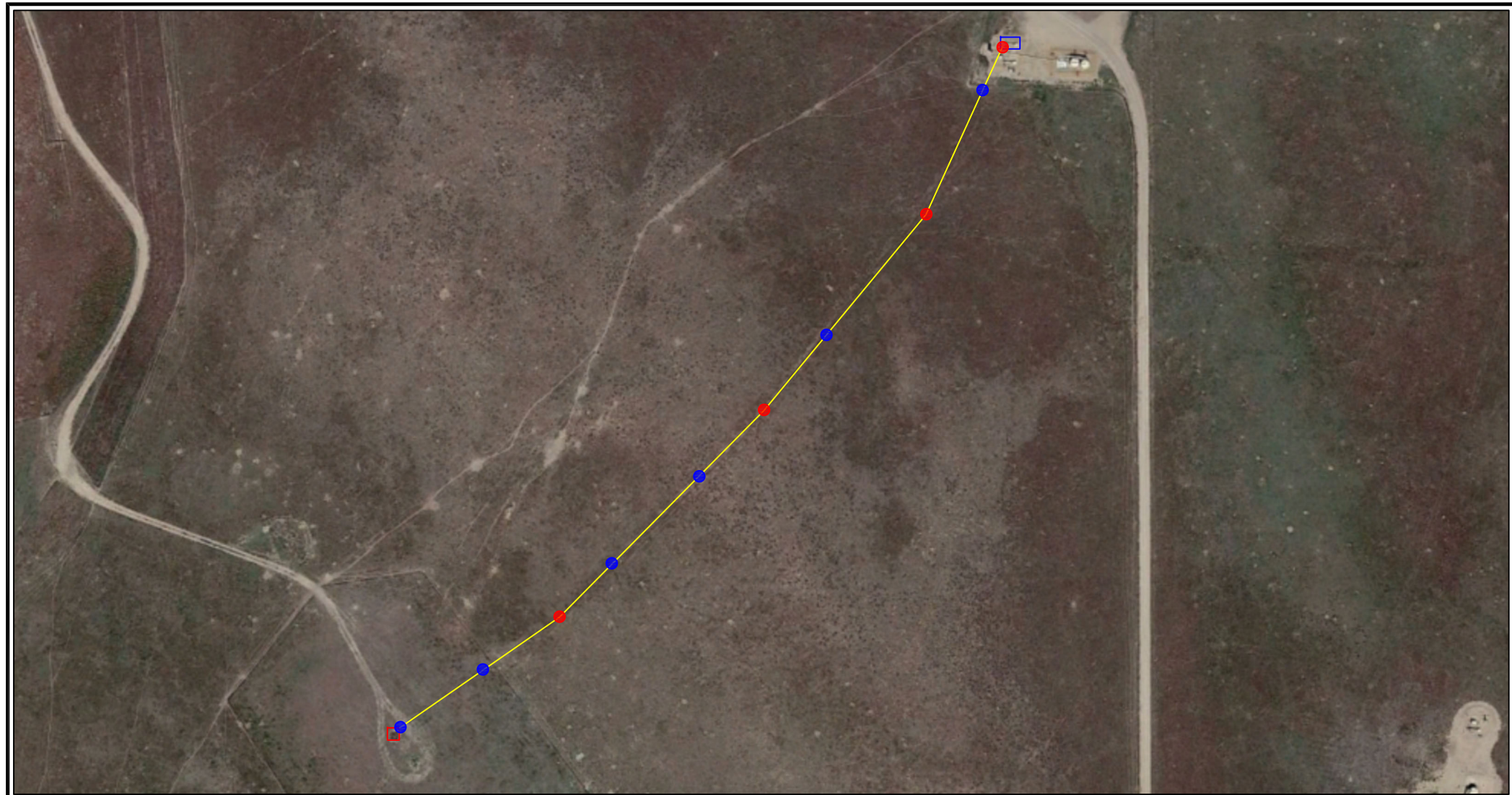


TOPOGRAPHIC SITE LOCATION MAP
 SATER CC #18-17D
 CLOSURE ASSESSMENT
 40.314070 / -104.478290
 SW¼ NE¼ SEC.18 T4N R63W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-34613
 REMEDIATION # 31822



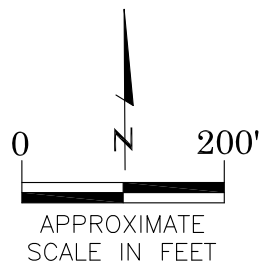
EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

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



LEGEND

- FORMER SATER CC #18-17D WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- APPROXIMATE FLOWLINE SAMPLE LOCATIONS - FIELD SCREENED
- APPROXIMATE FLOWLINE SAMPLE LOCATIONS - LAB SUBMITTED



AERIAL SITE LOCATION MAP
 SATER CC #18-17D
 CLOSURE ASSESSMENT
 40.314070 / -104.478290
 SW¼ NE¼ SEC.18 T4N R63W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-34613
 REMEDIATION # 31822

FIGURE NO.
2

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LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

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

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

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

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

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

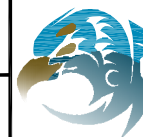
VALUES PRESENTED WITH ASTERISK (*) EXCEED ECMC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS, ONLY.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

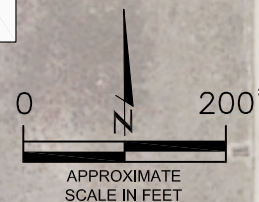
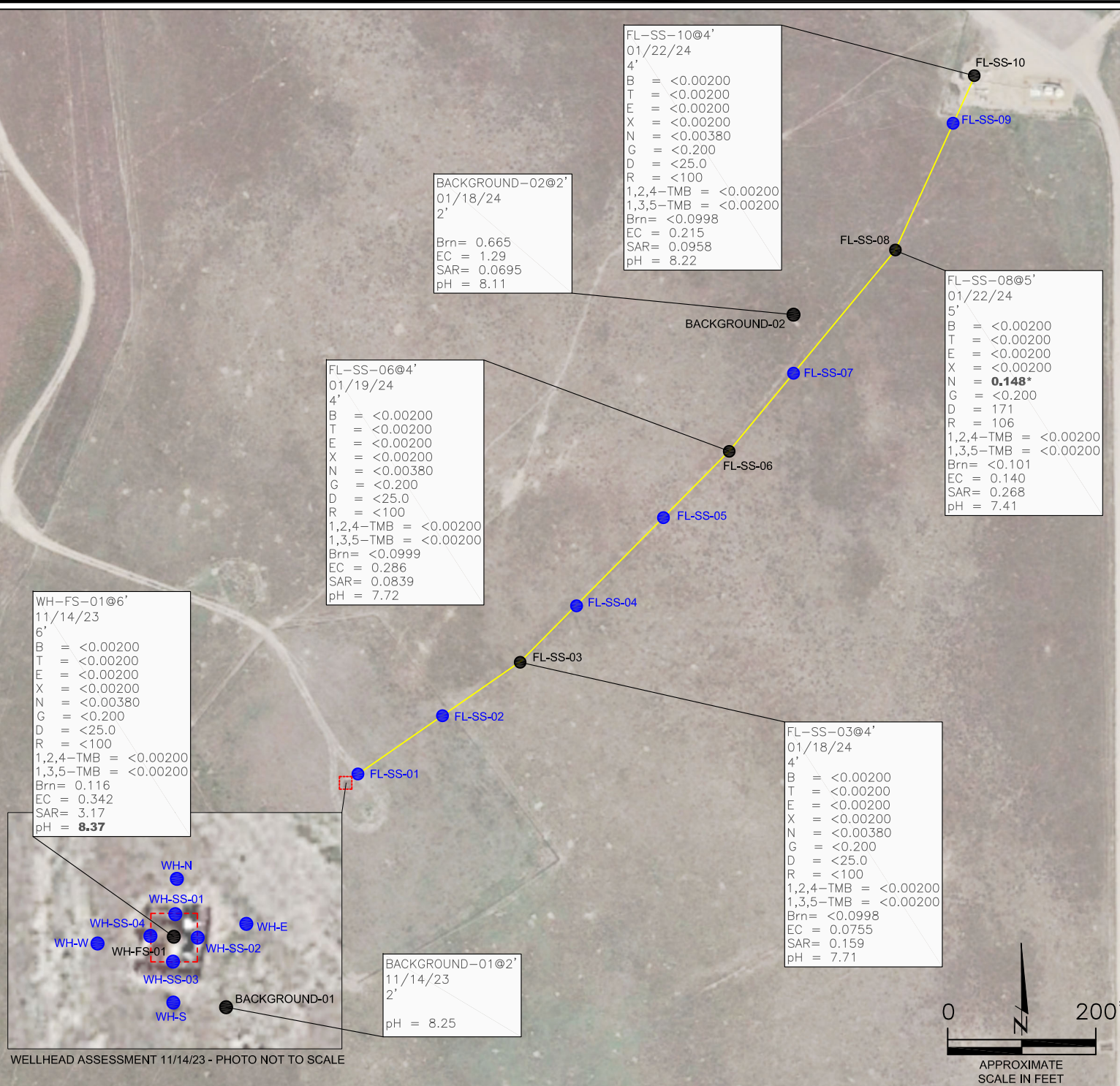
SOIL ANALYTICAL MAP
 SATER CC #18-17D
 CLOSURE ASSESSMENT
 40.314070 / -104.478290
 SW¼ NE¼ SEC.18 T4N R63W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-34613
 REMEDIATION # 31822

FIGURE NO.
3

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WELLHEAD ASSESSMENT 11/14/23 - PHOTO NOT TO SCALE

WH-FS-01@6'
11/14/23
6'

1-Methylnaphthalene = <0.002
2-Methylnaphthalene = <0.002
Acenaphthene = <0.020
Anthracene = <0.020
Benzo(a)anthracene = <0.005
Benzo(a)pyrene = <0.020
Benzo(b)fluoranthene = <0.020
Benzo(k)fluoranthene = <0.020
Chrysene = <0.020
Dibenzo(a,h)anthracene = <0.020
Fluoranthene = <0.020
Fluorene = <0.020
Indeno(1,2,3-CD)pyrene = <0.020
Pyrene = <0.020

FL-SS-06@4'
01/19/24
4'

1-Methylnaphthalene = <0.002
2-Methylnaphthalene = <0.002
Acenaphthene = <0.020
Anthracene = <0.020
Benzo(a)anthracene = 0.005
Benzo(a)pyrene = <0.020
Benzo(b)fluoranthene = <0.020
Benzo(k)fluoranthene = <0.020
Chrysene = <0.020
Dibenzo(a,h)anthracene = <0.020
Fluoranthene = <0.020
Fluorene = <0.020
Indeno(1,2,3-CD)pyrene = <0.020
Pyrene = <0.020

FL-SS-10@4'
01/22/24
4'

1-Methylnaphthalene = <0.002
2-Methylnaphthalene = <0.002
Acenaphthene = <0.020
Anthracene = <0.020
Benzo(a)anthracene = 0.007
Benzo(a)pyrene = <0.020
Benzo(b)fluoranthene = <0.020
Benzo(k)fluoranthene = <0.020
Chrysene = <0.020
Dibenzo(a,h)anthracene = <0.020
Fluoranthene = <0.020
Fluorene = <0.020
Indeno(1,2,3-CD)pyrene = <0.020
Pyrene = <0.020

FL-SS-03@4'
01/18/24
4'

1-Methylnaphthalene = <0.002
2-Methylnaphthalene = <0.002
Acenaphthene = <0.020
Anthracene = <0.020
Benzo(a)anthracene = <0.005
Benzo(a)pyrene = <0.020
Benzo(b)fluoranthene = <0.020
Benzo(k)fluoranthene = <0.020
Chrysene = <0.020
Dibenzo(a,h)anthracene = <0.020
Fluoranthene = <0.020
Fluorene = <0.020
Indeno(1,2,3-CD)pyrene = <0.020
Pyrene = <0.020

FL-SS-08@5'
01/22/24
5'

1-Methylnaphthalene = **0.692***
2-Methylnaphthalene = **1.29***
Acenaphthene = **5.97***
Anthracene = **11.9***
Benzo(a)anthracene = **12.7**
Benzo(a)pyrene = **7.74**
Benzo(b)fluoranthene = **8.57**
Benzo(k)fluoranthene = **3.97***
Chrysene = **12.2***
Dibenzo(a,h)anthracene = **1.16**
Fluoranthene = **45.7***
Fluorene = **8.30***
Indeno(1,2,3-CD)pyrene = **3.53**
Pyrene = **28.6***

- LEGEND**
- WELLHEAD ASSESSMENT BOUNDARIES
 - APPROXIMATE FLOWLINE LOCATION (REMOVED)
 - APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
 - SS-02
 - SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

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

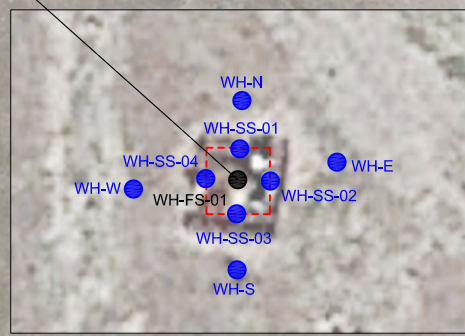
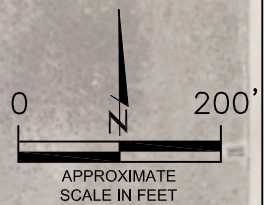
VALUES PRESENTED WITH AN ASTERISK (*) EXCEED ECMC TABLE 915-1 GROUNDWATER SOIL SCREENING LEVELS, ONLY.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

POLYCYCLIC AROMATIC HYDROCARBONS MAP
SATER CC #18-17D
CLOSURE ASSESSMENT
40.314070 / -104.478290
SW¼ NE¼ SEC.18 T4N R63W 6PM
WELD COUNTY, COLORADO
API # 05-123-34613
REMEDATION # 31822

FIGURE NO.
4

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WELLHEAD ASSESSMENT 11/14/23 - PHOTO NOT TO SCALE

FL-SS-10@4'
01/22/24
4'

Arsenic = **3.30**
Barium = 65.6
Cadmium = 0.229
Chromium (VI) = <0.244**
Copper = <9.10
Lead = 6.46
Nickel = 7.13
Selenium = 0.166
Silver = <0.0910
Zinc = 32.0

BACKGROUND-02@2'
01/18/24
2'

Arsenic = 1.65
Barium = 69.5
Cadmium = 0.182
Chromium (VI) = <1.22**(1)
Copper = 10.2
Lead = 8.86
Nickel = 5.78
Selenium = 0.137
Silver = <0.0912
Zinc = 54.9

FL-SS-08@5'
01/22/24
5'

Arsenic = 1.74
Barium = 47.5
Cadmium = <0.0897
Chromium (VI) = <0.244**
Copper = <8.97
Lead = 4.39
Nickel = 4.53
Selenium = <0.0897
Silver = <0.0897
Zinc = 20.8

FL-SS-06@4'
01/19/24
4'

Arsenic = 1.56
Barium = 36.4
Cadmium = <0.0860
Chromium (VI) = <0.244**
Copper = <8.60
Lead = 3.24
Nickel = 3.10
Selenium = <0.0860
Silver = <0.0860
Zinc = 12.3

FL-SS-03@4'
01/18/24
4'

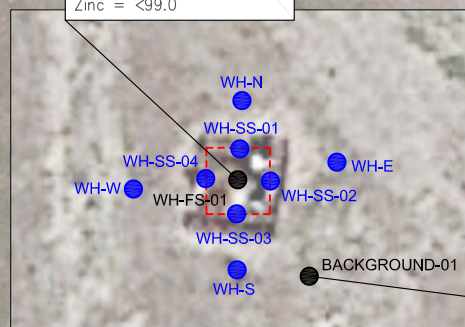
Arsenic = 1.33
Barium = 35.6
Cadmium = <0.0894
Chromium (VI) = <0.244**
Copper = <8.94
Lead = 4.23
Nickel = 4.11
Selenium = <0.0894
Silver = <0.0894
Zinc = 18.0

BACKGROUND-01@2'
11/14/23
2'

Arsenic = 1.45
Barium = 84.7*

WH-FS-01@6'
11/14/23
6'

Arsenic = 0.987
Barium = **125***
Cadmium = <0.0990
Chromium (VI) = <0.244**
Copper = <9.90
Lead = <9.90
Nickel = <9.90
Selenium = <0.0990
Silver = <0.0990
Zinc = <99.0



WELLHEAD ASSESSMENT 11/14/23 - PHOTO NOT TO SCALE

LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION	DATE SAMPLE COLLECTED	APPROXIMATE DEPTH
Arsenic = (mg/kg)		
Barium = (mg/kg)		
Cadmium = (mg/kg)		
Chromium (VI) = (mg/kg)		
Copper = (mg/kg)		
Lead = (mg/kg)		
Nickel = (mg/kg)		
Selenium = (mg/kg)		
Silver = (mg/kg)		
Zinc = (mg/kg)		

mg/kg = MILLIGRAMS PER KILOGRAM

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

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

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

*VALUES EXCEED ECMC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS, ONLY.

**ACHIEVABLE PRACTICAL QUANTITATIVE LIMITS FOR HEXAVALENT CHROMIUM (Cr VI) IN SOILS IS IN THE RANGE OF 0.1 TO 1 mg/kg. (1) SAMPLE REQUIRED DILUTION, RAISING LABORATORY REPORTING AND DETECTION LIMITS - SAMPLE NON-DETECT.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

METALS IN SOIL MAP
SATER CC #18-17D
CLOSURE ASSESSMENT
40.314070 / -104.478290
SW¼ NE¼ SEC.18 T4N R63W 6PM
WELD COUNTY, COLORADO
API # 05-123-34613
REMEDATION # 31822

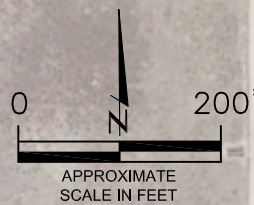


FIGURE NO.
5

DRAWN BY:
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TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
SATER CC #18-17D
CLOSURE ASSESSMENT
40.314070 / -104.478290
SW¼ NE¼ SEC.18 T4N R63W 6PM
WELD COUNTY, COLORADO
API # 05-123-34613
REMEDICATION # 31822

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-FS-01 @ 6' (40.314072 / -104.478301)	11/14/23	6	5.8	Y
WH-SS-01 @ 5' (40.314087 / -104.478298)	11/14/23	5	2.5	N
WH-SS-02 @ 5' (40.314076 / -104.478288)	11/14/23	5	2.2	N
WH-SS-03 @ 5' (40.314065 / -104.478301)	11/14/23	5	2.6	N
WH-SS-04 @ 5' (40.314077 / -104.478318)	11/14/23	5	4.6	N
WH-N @ 0.5' (40.314101 / -104.478297)	11/14/23	0.5	4.2	N
WH-E @ 0.5' (40.314073 / -104.478266)	11/14/23	0.5	4.7	N
WH-S @ 0.5' (40.314046 / -104.478301)	11/14/23	0.5	5.6	N
WH-W @ 0.5' (40.314075 / -104.478346)	11/14/23	0.5	4.3	N
Background-01 @ 2' (40.314045 / -104.478266)	11/14/23	2	0.1	Y
FL-SS-01 @ 4' (40.314068 / -104.478290)	01/18/24	4	1.4	N
FL-SS-02 @ 4' (40.314334 / -104.477821)	01/18/24	4	1.0	N
FL-SS-03 @ 4' (40.314529 / -104.477461)	01/18/24	4	1.1	Y
FL-SS-04 @ 4' (40.314755 / -104.477193)	01/18/24	4	1.3	N
FL-SS-05 @ 4' (40.315038 / -104.476810)	01/18/24	4	1.3	N
FL-SS-06 @ 4' (40.315299 / -104.476463)	01/19/24	4	1.5	Y
FL-SS-07 @ 4' (40.315588 / -104.476146)	01/19/24	4	1.2	N
FL-SS-08 @ 5' (40.315927 / -104.475804)	01/22/24	5	8.4	Y
FL-SS-09 @ 5' (40.316461 / -104.475410)	01/22/24	5	7.0	N
FL-SS-10 @ 4' (40.316681 / -104.475251)	01/22/24	4	4.5	Y
Background-02 @ 2' (40.315776 / -104.476142)	01/18/24	2	0.8	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
SATER CC #18-17D
CLOSURE ASSESSMENT
40.314070 / -104.478290
SW¼ NE¼ SEC.18 T4N R63W 6PM
WELD COUNTY, COLORADO
API # 05-123-34613
REMEDIATION # 31822

Sample Location		WH-FS-01 @ 6'	Background-01 @ 2'	FL-SS-03 @ 4'	FL-SS-06 @ 4'	FL-SS-08 @ 5'	FL-SS-10 @ 4'	Background-02 @ 2'
(Latitude / Longitude)		(40.314072 / -104.478301)	(40.314045 / -104.478266)	(40.314529 / -104.477461)	(40.315299 / -104.476463)	(40.315927 / -104.475804)	(40.316681 / -104.475251)	(40.315776 / -104.476142)
Sample Date		11/14/2023	11/14/2023	1/18/2024	1/19/2024	1/22/2024	1/22/2024	1/18/2024
Sample Depth		6	2	4	4	5	4	2
PID Reading (ppm-v)		5.8	0.1	1.1	1.5	8.4	4.5	0.8
Regulatory Limits								
Chemical of Concern	Units	ECMC Table 915-1 RSSLs	ECMC Table 915-1 GSSLs	Local Clean-Up Level				
VOLATILE ORGANIC COMPOUNDS								
Benzene	mg/kg	1.2	0.0026	--	<0.00200	NA	<0.00200	<0.00200
Toluene	mg/kg	490	0.69	--	<0.00200	NA	<0.00200	<0.00200
Ethylbenzene	mg/kg	5.8	0.78	--	<0.00200	NA	<0.00200	<0.00200
Total Xylenes	mg/kg	58	9.9	--	<0.00200	NA	<0.00200	<0.00200
Naphthalene	mg/kg	2	0.0038	--	<0.00380	NA	<0.00380	<0.00380
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	<0.00200	NA	<0.00200	<0.00200
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	<0.00200	NA	<0.00200	<0.00200
TOTAL PETROLEUM HYDROCARBONS								
TPH-GRO	mg/kg	500	--	--	<0.200	NA	<0.200	<0.200
TPH-DRO	mg/kg	500	--	--	<25.0	NA	<25.0	<25.0
TPH-RRO	mg/kg	500	--	--	<100	NA	<100	<100
POLYCYCLIC AROMATIC HYDROCARBONS								
1-Methyl-naphthalene	mg/kg	18	0.006	--	<0.002	NA	<0.002	<0.002
2-Methyl-naphthalene	mg/kg	24	0.019	--	<0.002	NA	<0.002	<0.002
Acenaphthene	mg/kg	360	0.55	--	<0.020	NA	<0.020	<0.020
Anthracene	mg/kg	1800	5.8	--	<0.020	NA	<0.020	<0.020
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	<0.005	NA	0.005	0.007
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	<0.020	NA	<0.020	<0.020
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	<0.020	NA	<0.020	<0.020
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	<0.020	NA	<0.020	<0.020
Chrysene	mg/kg	110	9	--	<0.020	NA	<0.020	<0.020
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	<0.020	NA	<0.020	<0.020
Fluoranthene	mg/kg	240	8.9	--	<0.020	NA	<0.020	<0.020
Fluorene	mg/kg	240	0.54	--	<0.020	NA	<0.020	<0.020
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	<0.020	NA	<0.020	<0.020
Pyrene	mg/kg	180	1.3	--	<0.020	NA	<0.020	<0.020
SOIL SUITABILITY (Inorganics)								
Boron	mg/L	2	--	--	0.116	NA	<0.0998	<0.0999
pH	standard unit	6-8.3	--	--	8.37	8.25	7.71	7.72
Sodium Adsorption Ratio (SAR)	--	<6	--	--	3.17	NA	0.159	0.286
Specific Conductance (EC)	mmhos/cm	<4	--	--	0.342	NA	0.0755	0.0839
METALS								
Arsenic	mg/kg	0.68	0.29	2.18	0.987	1.45	1.33	1.56
Barium	mg/kg	15000	82	106	125*	84.7*	35.6	36.4
Cadmium	mg/kg	71	0.38	--	<0.0090	NA	<0.894	<0.0860
Copper	mg/kg	3100	46	--	<9.90	NA	<8.94	<8.60
Lead	mg/kg	400	14	--	<9.90	NA	4.23	3.24
Nickel	mg/kg	1500	26	--	<9.90	NA	4.11	3.10
Selenium	mg/kg	390	0.26	--	<0.0990	NA	<0.0894	<0.0860
Silver	mg/kg	390	0.8	--	<0.0990	NA	<0.0894	<0.0860
Zinc	mg/kg	23000	370	--	<99.0	NA	18.0	12.3
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	<0.244**	NA	<0.244**	<0.244**

ECMC = Energy & 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

NA = Not Analyzed

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. Local Clean-up Levels are 1.25*Background high concentrations where applicable.

Values presented in **BOLD** exceed ECMC Table 915-1 Regulatory Limits. Values presented with asterisk (*) exceed ECMC Table 915-1 GSSLs, only.

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



ATTACHMENT A

Photo Log

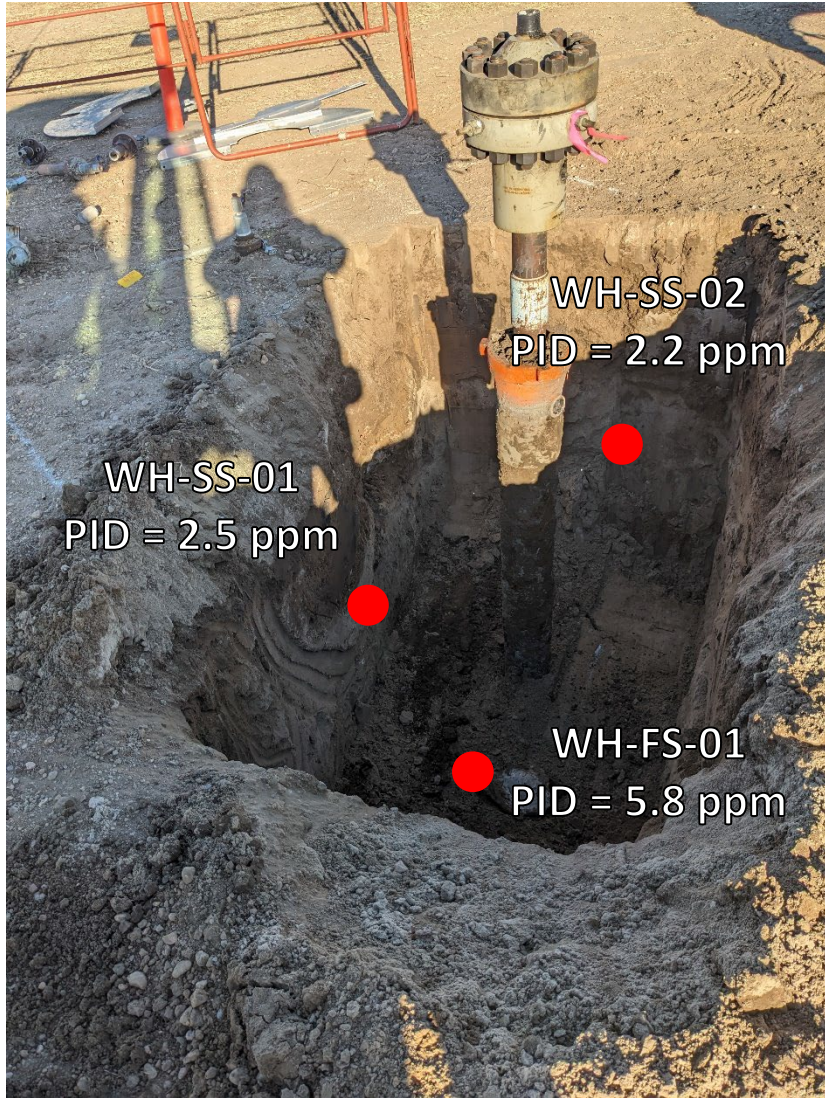
Sater CC #18-17D
API # 05-123-34613
Remediation # 31822

Closure Assessment

November 2023 – January 2024

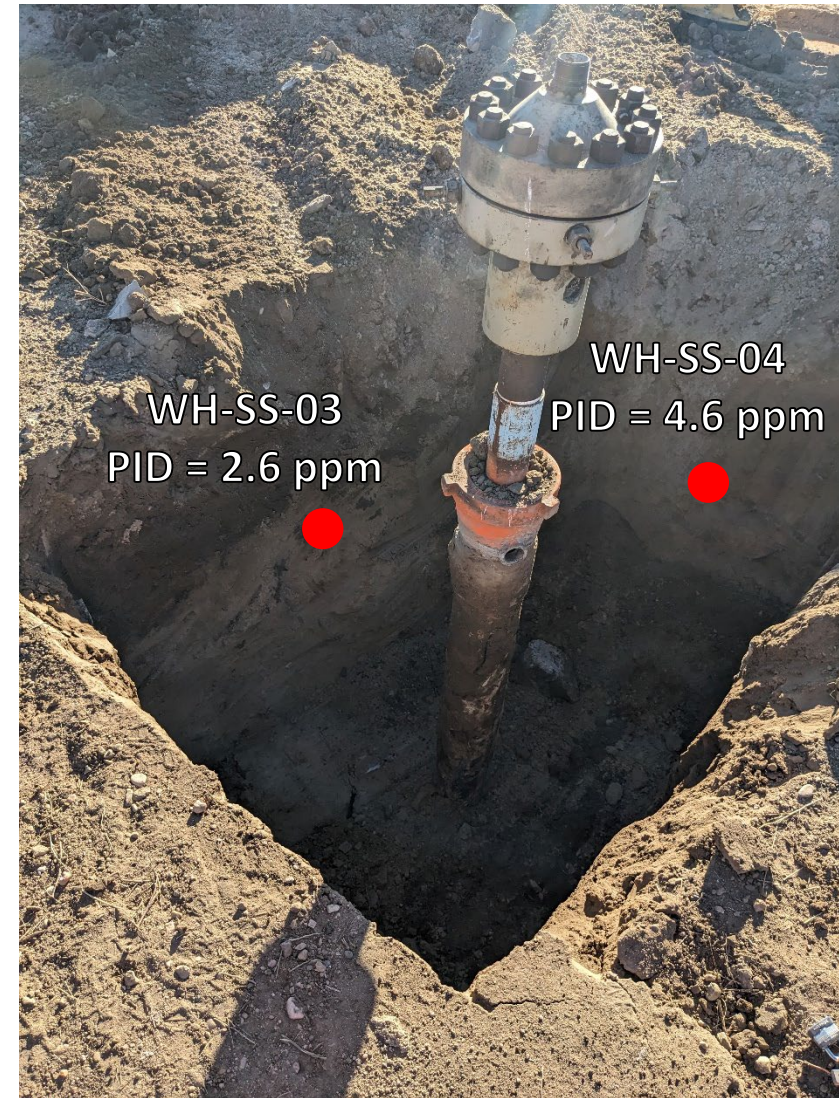


Wellhead Excavation – 11/14/23



Looking east-northeast

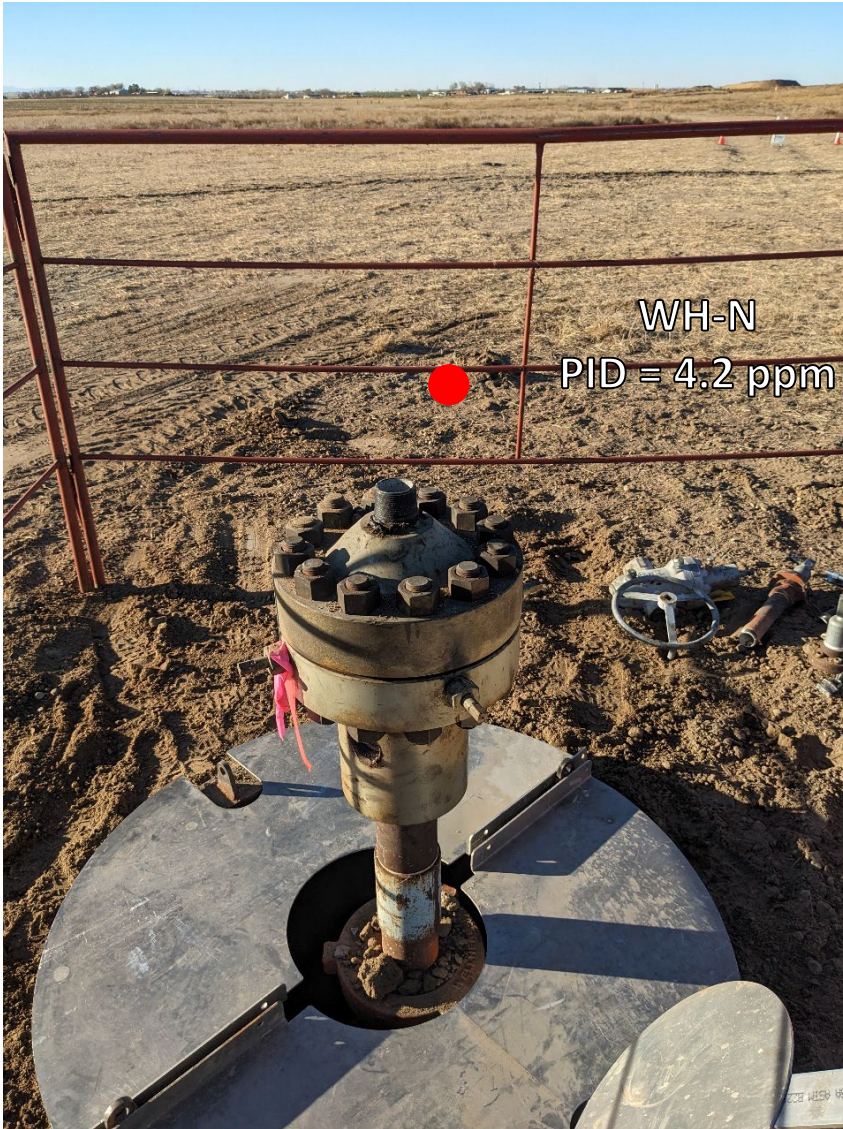
No petroleum hydrocarbon staining or odor observed



Looking southwest

No petroleum hydrocarbon staining or odor observed

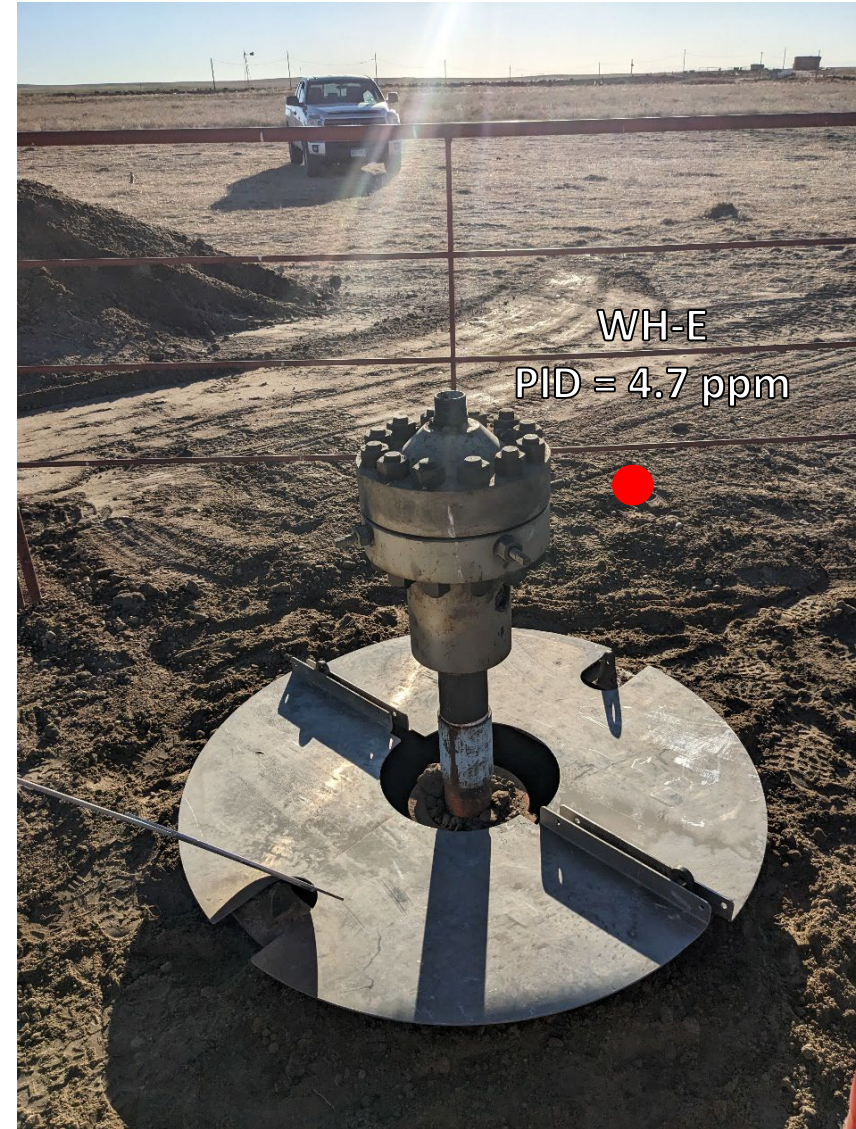
Wellhead Surface – 11/14/23



WH-N
PID = 4.2 ppm

Looking north

Site in good condition – no petroleum hydrocarbon staining or odor
Observed on surface around wellhead



WH-E
PID = 4.7 ppm

Looking east

Site in good condition – no petroleum hydrocarbon staining or odor
Observed on surface around wellhead

Wellhead Surface – 11/14/23



WH-S
PID = 5.6 ppm

Looking south

Site in good condition – no petroleum hydrocarbon staining or odor
Observed on surface around wellhead

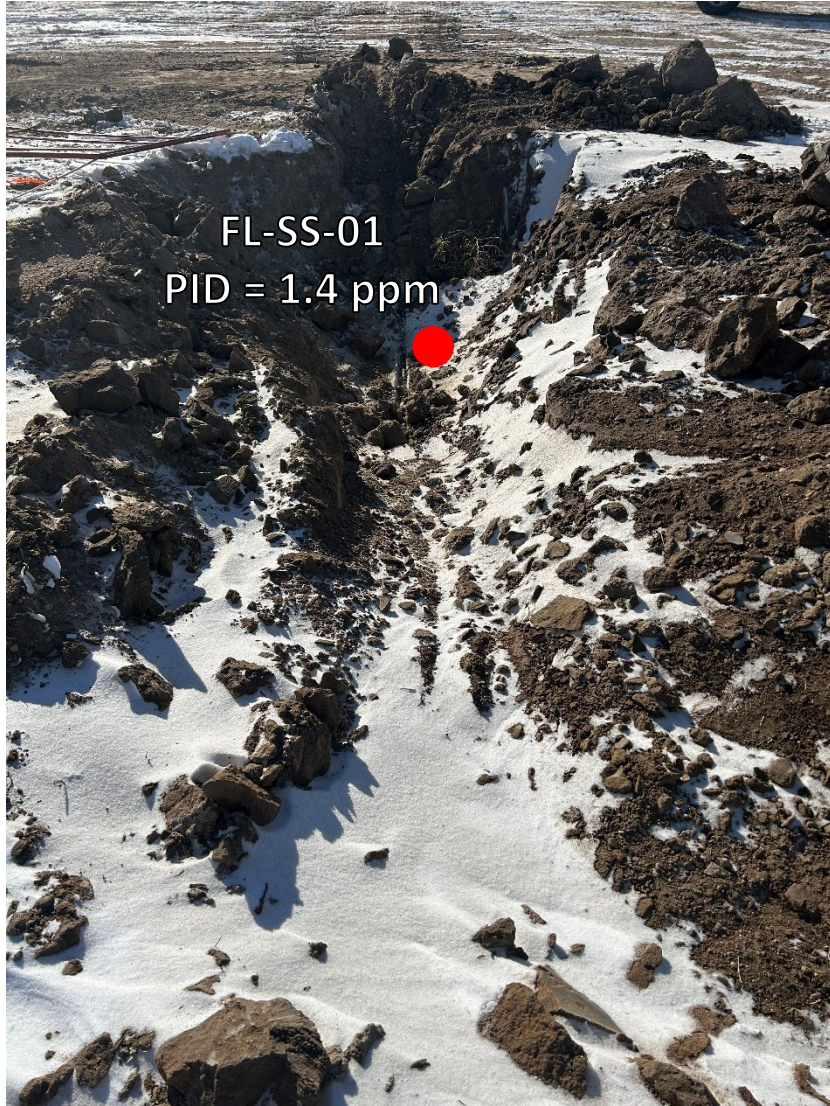


WH-W
PID = 4.3 ppm

Looking west

Site in good condition – no petroleum hydrocarbon staining or odor
Observed on surface around wellhead

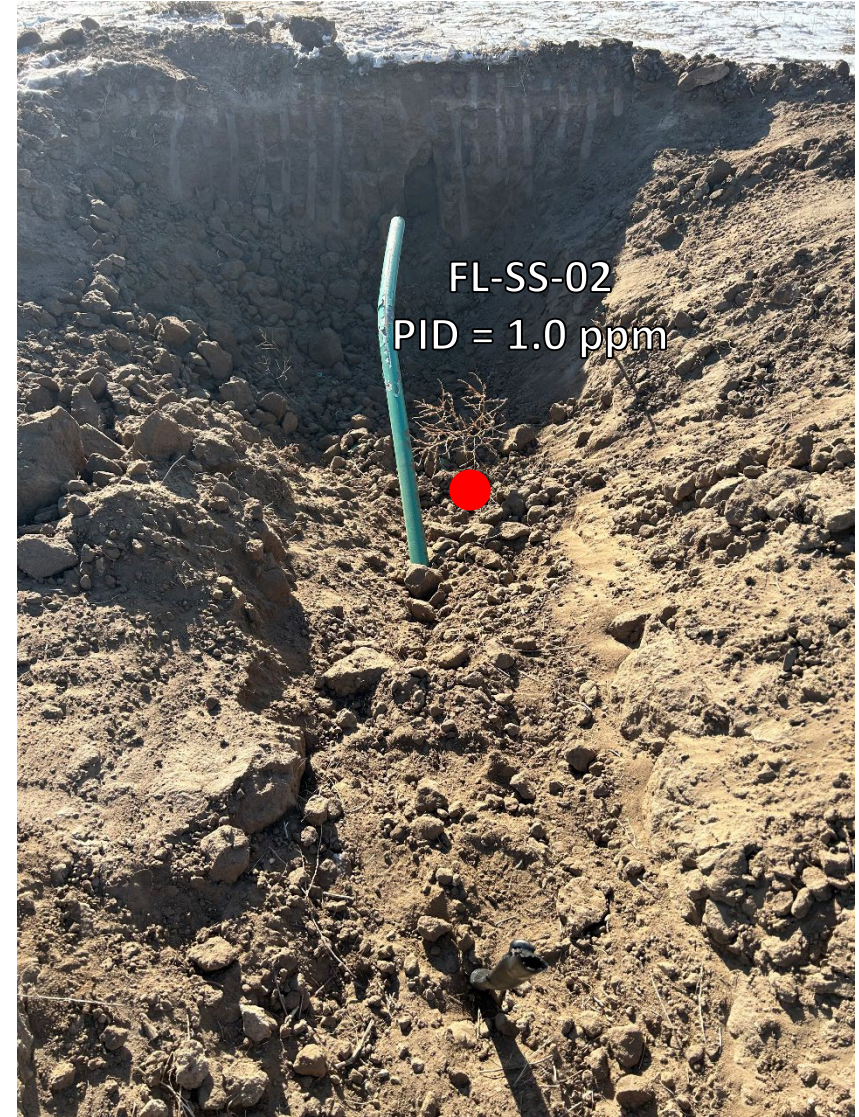
Flowline Removal – 01/18/24



FL-SS-01
PID = 1.4 ppm

Looking southwest at Pt. A/terminus at wellhead

No petroleum hydrocarbon odor or staining observed



FL-SS-02
PID = 1.0 ppm

Looking southwest at bellhole/cut point for removal

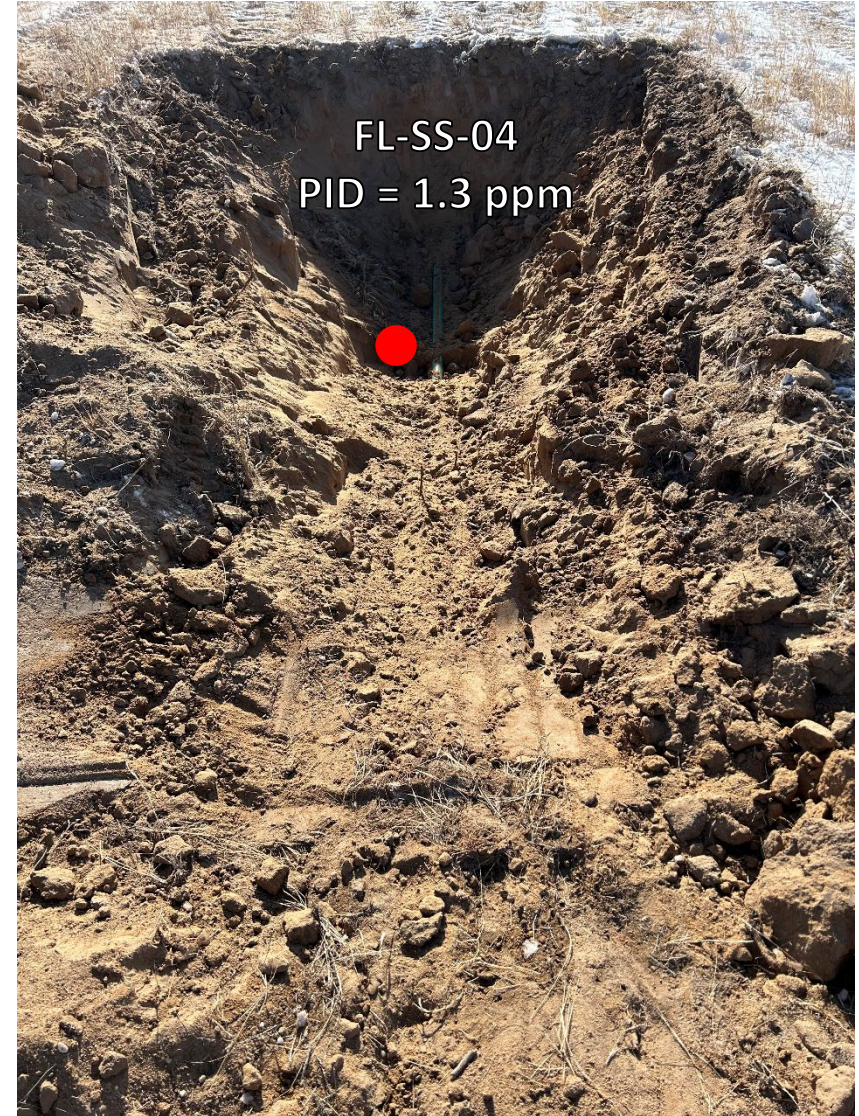
No petroleum hydrocarbon odor or staining observed

Flowline Removal – 01/18/24



Looking southwest at bellhole/change in direction

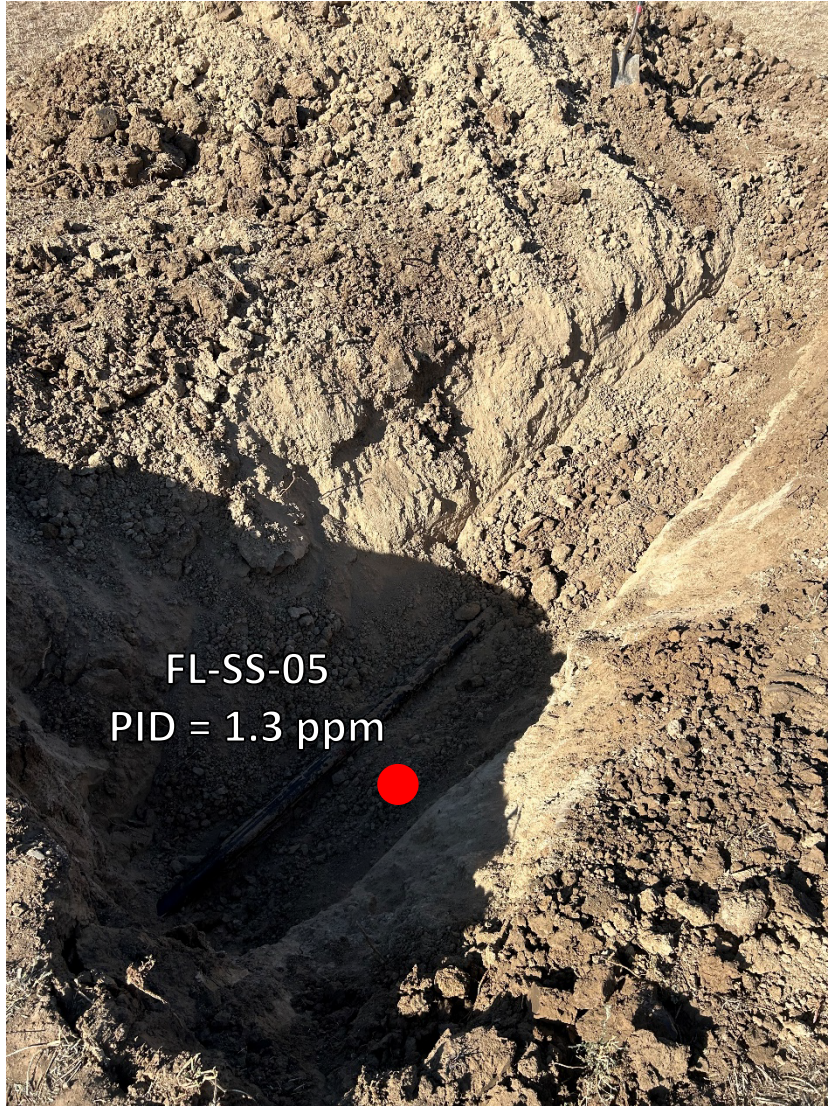
No petroleum hydrocarbon odor or staining observed



Looking southwest at bellhole/cut point for removal

No petroleum hydrocarbon odor or staining observed

Flowline Removal – 01/18/24-01/19/24



Looking northwest at bellhole/cut point for removal

No petroleum hydrocarbon odor or staining observed



Looking south at bellhole/change of direction

No petroleum hydrocarbon odor or staining observed

Flowline Removal – 01/19/24-01/22/24



Looking south at bellhole/cut point for removal

No petroleum hydrocarbon odor or staining observed



Looking southwest at bellhole/change in direction

No petroleum hydrocarbon odor or staining observed

Flowline Removal – 01/22/24



Looking northeast at bellhole/cut point for removal

No petroleum hydrocarbon odor or staining observed



Looking north at Pt. B/terminus at separator

No petroleum hydrocarbon odor or staining observed



ATTACHMENT B

Laboratory Analytical Reports



December 05, 2023

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Sater CC #18-17D

Project Number - [none]

Attached are your analytical results for Noble - Sater CC #18-17D received by Origins Laboratory, Inc. November 14, 2023. This project is associated with Origins project number Y311378-01.

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

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

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

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

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

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



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

Andrew Newberry
Project Number: [none]
Project: Noble - Sater CC #18-17D

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y311378-01	Soil	November 14, 2023 14:43	11/14/2023 17:14

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1311378

Client: Eagle

Client Project ID: Sater CC 18-17D

Checklist Completed by: JG/CHS

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 11/15/23

Airbill #: N/A

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

Water

Other:

Cooler Number/Temperature: 1 / 2.4 °C / _____ °C / _____ °C / _____ °C (Describe)

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager)

Date/Time Reviewed 11/16/23

Origins Laboratory, Inc.



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

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

WH-FS-01@6'

11/14/2023 2:43:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311378-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.116		0.0993	mg/L	1	B3K1610	11/16/2023	11/17/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3K1501	11/15/2023	11/17/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	73.9 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3K1517	11/15/2023	11/15/2023	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

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

WH-FS-01@6'

11/14/2023 2:43:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311378-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	128 %		70-130			B3K15 17	11/15/2023	11/15/2023	
Surrogate: Toluene-d8	104 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.603		0.499	meq/L	10	[CALC]	11/16/2023	11/17/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.10		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3K1632	11/16/2023	11/18/2023	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 (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

WH-FS-01@6'

11/14/2023 2:43:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311378-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B3K1632	11/16/2023	11/18/2023	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.8 %		60-130			"	"	"	
Surrogate: Anthracene-d10	86.6 %		60-130			"	"	"	
Surrogate: Pyrene-d10	97.6 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.7 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.37			pH Units	1	B3K1614	11/16/2023	11/17/2023	
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SAR by 20B Saturated Paste

SAR	3.17		0.0100	SAR	1	B3K1612	11/16/2023	11/17/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.342		0.00500	mmhos/cm	1	B3K1614	11/16/2023	11/17/2023	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

WH-FS-01@6'

11/14/2023 2:43:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311378-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	0.987		0.0990	mg/kg	10	B3K2707	11/27/2023	11/29/2023	
Barium	125		9.90	"	"	"	"	"	
Cadmium	ND		0.0990	"	"	"	"	"	
Copper	ND		9.90	"	"	"	"	"	
Lead	ND		9.90	"	"	"	"	"	
Nickel	ND		9.90	"	"	"	"	"	
Selenium	ND		0.0990	"	"	"	"	"	
Silver	ND		0.0990	"	"	"	"	"	
Zinc	ND		99.0	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L717955	11/14/2023	11/20/2023	
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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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B3K1501 - EPA 3550B										
Blank (B3K1501-BLK1)										
					Prepared: 11/15/2023 Analyzed: 11/16/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		81.4	50-150			

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B3K1501 - EPA 3550B

LCS (B3K1501-BS1)

Prepared: 11/15/2023 Analyzed: 11/16/2023

Diesel (C10-C28)	917	50.0	mg/kg	1000		91.7	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	70-130			
Surrogate: o-Terphenyl	42		"	49.8		83.7	50-150			

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B3K1501 - EPA 3550B

Matrix Spike (B3K1501-MS1)	Source: Y311320-02			Prepared: 11/15/2023 Analyzed: 11/16/2023						
Diesel (C10-C28)	893	50.0	mg/kg	1000	ND	89.3	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000	151	90.1	70-130			
Surrogate: o-Terphenyl	40		"	49.8		80.5	50-150			

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B3K1501 - EPA 3550B										
Matrix Spike Dup (B3K1501-MSD1)					Source: Y311320-02					Prepared: 11/15/2023 Analyzed: 11/16/2023
Diesel (C10-C28)	1000	50.0	mg/kg	1000	ND	100	70-130	11.6	35	
Residual Range Organics (C28-C40)	1230	200	"	1000	151	108	70-130	15.4	35	
Surrogate: o-Terphenyl	55		"	49.8		111	50-150			

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B3K1517 - EPA 5030 (soil)

Blank (B3K1517-BLK1)

Prepared: 11/15/2023 Analyzed: 11/15/2023

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	0.13		"	0.125	101		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	96.6		70-130			

Origins Laboratory, Inc.



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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B3K1517 - EPA 5030 (soil)

LCS (B3K1517-BS1)

Prepared: 11/15/2023 Analyzed: 11/15/2023

1,2,4-Trimethylbenzene	0.0979	0.00200	mg/kg	0.100		97.9	70-130			
1,3,5-Trimethylbenzene	0.0988	0.00200	"	0.100		98.8	70-130			
Benzene	0.0909	0.00200	"	0.100		90.9	70-130			
Ethylbenzene	0.0891	0.00200	"	0.100		89.1	70-130			
Naphthalene	0.101	0.00380	"	0.100		101	70-130			
Toluene	0.0939	0.00200	"	0.100		93.9	70-130			
o-Xylene	0.0968	0.00200	"	0.100		96.8	70-130			
m,p-Xylene	0.185	0.00400	"	0.200		92.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.3	70-130			

Origins Laboratory, Inc.



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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B3K1517 - EPA 5030 (soil)

Matrix Spike (B3K1517-MS1)	Source: Y311362-01			Prepared: 11/15/2023 Analyzed: 11/15/2023						
1,2,4-Trimethylbenzene	0.0940	0.00200	mg/kg	0.100	ND	94.0	70-130			
1,3,5-Trimethylbenzene	0.0949	0.00200	"	0.100	ND	94.9	70-130			
Benzene	0.0921	0.00200	"	0.100	ND	92.1	70-130			
Ethylbenzene	0.0925	0.00200	"	0.100	ND	92.5	70-130			
Naphthalene	0.101	0.00380	"	0.100	0.00110	99.8	70-130			
Toluene	0.0929	0.00200	"	0.100	ND	92.9	70-130			
o-Xylene	0.101	0.00200	"	0.100	ND	101	70-130			
m,p-Xylene	0.193	0.00400	"	0.200	ND	96.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B3K1517 - EPA 5030 (soil)

Matrix Spike Dup (B3K1517-MSD1)	Source: Y311362-01			Prepared: 11/15/2023 Analyzed: 11/15/2023						
1,2,4-Trimethylbenzene	0.0887	0.00200	mg/kg	0.100	ND	88.7	70-130	5.80	20	
1,3,5-Trimethylbenzene	0.0888	0.00200	"	0.100	ND	88.8	70-130	6.68	20	
Benzene	0.0898	0.00200	"	0.100	ND	89.8	70-130	2.55	20	
Ethylbenzene	0.0886	0.00200	"	0.100	ND	88.6	70-130	4.26	20	
Naphthalene	0.0974	0.00380	"	0.100	0.00110	96.3	70-130	3.55	20	
Toluene	0.0909	0.00200	"	0.100	ND	90.9	70-130	2.15	20	
o-Xylene	0.0969	0.00200	"	0.100	ND	96.9	70-130	3.73	20	
m,p-Xylene	0.185	0.00400	"	0.200	ND	92.7	70-130	4.13	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.9	70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B3K2707 - EPA 3050B

Blank (B3K2707-BLK1)

Prepared: 11/27/2023 Analyzed: 11/29/2023

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 (B3K2707-BS1)

Prepared: 11/27/2023 Analyzed: 11/29/2023

Arsenic	0.0465	0.000100	mg/kg	0.0500		93.0	80-120			
Barium	4.76	0.0100	"	5.00		95.2	80-120			
Cadmium	0.0465	0.000100	"	0.0500		93.0	80-120			
Copper	0.503	0.0100	"	0.500		101	80-120			
Lead	0.0464	0.0100	"	0.0500		92.9	80-120			
Nickel	0.0500	0.0100	"	0.0500		100	80-120			
Selenium	0.0410	0.000100	"	0.0500		82.0	80-120			
Silver	0.0481	0.000100	"	0.0500		96.1	80-120			
Zinc	0.451	0.100	"	0.500		90.2	80-120			

Matrix Spike (B3K2707-MS1)

Source: Y311372-01

Prepared: 11/27/2023 Analyzed: 11/29/2023

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B3K2707 - EPA 3050B

Matrix Spike (B3K2707-MS1)		Source: Y311372-01			Prepared: 11/27/2023 Analyzed: 11/29/2023					
Arsenic	6.12	0.0868	mg/kg	4.34	1.37	110	75-125			
Barium	485	8.68	"	434	25.6	106	75-125			
Cadmium	4.49	0.0868	"	4.34	0.0804	102	75-125			
Copper	50.2	8.68	"	43.4	2.35	110	75-125			
Lead	9.04	8.68	"	4.34	3.74	122	75-125			
Nickel	8.57	8.68	"	4.34	2.97	129	75-125			QM-07
Selenium	3.99	0.0868	"	4.34	0.0952	89.8	75-125			
Silver	4.51	0.0868	"	4.34	0.0203	104	75-125			
Zinc	58.5	86.8	"	43.4	13.0	105	75-125			

Matrix Spike Dup (B3K2707-MSD1)		Source: Y311372-01			Prepared: 11/27/2023 Analyzed: 11/29/2023					
Arsenic	5.33	0.0964	mg/kg	4.82	1.37	82.3	75-125	13.7	20	
Barium	428	9.64	"	482	25.6	83.4	75-125	12.4	20	
Cadmium	4.02	0.0964	"	4.82	0.0804	81.7	75-125	11.0	20	
Copper	45.3	9.64	"	48.2	2.35	89.0	75-125	10.4	20	
Lead	8.14	9.64	"	4.82	3.74	91.3	75-125	10.5	20	
Nickel	7.56	9.64	"	4.82	2.97	95.1	75-125	12.6	20	
Selenium	3.38	0.0964	"	4.82	0.0952	68.2	75-125	16.5	20	QM-07
Silver	4.01	0.0964	"	4.82	0.0203	82.8	75-125	11.8	20	
Zinc	51.9	96.4	"	48.2	13.0	80.7	75-125	11.9	20	

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B3K1632 - EPA 3580

Blank (B3K1632-BLK1)

Prepared: 11/16/2023 Analyzed: 11/18/2023

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	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	170		"	200		83.7	60-130			
Surrogate: Pyrene-d10	200		"	200		99.4	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.8	60-130			

LCS (B3K1632-BS1)

Prepared: 11/16/2023 Analyzed: 11/18/2023

1-Methylnaphthalene	0.192	0.002	mg/kg	0.200		96.1	70-130			
2-Methylnaphthalene	0.190	0.002	"	0.200		94.8	70-130			
Acenaphthene	0.192	0.020	"	0.200		95.8	70-130			
Anthracene	0.187	0.020	"	0.200		93.5	70-130			

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B3K1632 - EPA 3580

LCS (B3K1632-BS1)

Prepared: 11/16/2023 Analyzed: 11/18/2023

Benzo (a) anthracene	0.166	0.005	mg/kg	0.200		83.1	70-130			
Benzo (a) pyrene	0.179	0.020	"	0.200		89.7	70-130			
Benzo (b) fluoranthene	0.182	0.020	"	0.200		91.1	70-130			
Benzo (g,h,i) perylene	0.198	0.020	"	0.200		99.1	70-130			
Benzo (k) fluoranthene	0.173	0.020	"	0.200		86.5	70-130			
Chrysene	0.186	0.020	"	0.200		92.8	70-130			
Dibenz (a,h) anthracene	0.187	0.020	"	0.200		93.4	70-130			
Fluoranthene	0.191	0.020	"	0.200		95.7	70-130			
Fluorene	0.196	0.020	"	0.200		97.8	70-130			
Indeno (1,2,3-cd) pyrene	0.182	0.020	"	0.200		91.0	70-130			
Naphthalene	0.196	0.002	"	0.200		98.1	70-130			
Phenanthrene	0.181	0.020	"	0.200		90.3	70-130			
Pyrene	0.176	0.020	"	0.200		88.1	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	180		"	200		91.4	60-130			
Surrogate: Pyrene-d10	190		"	200		96.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.7	60-130			

Matrix Spike (B3K1632-MS1)

Source: Y311372-01

Prepared: 11/16/2023 Analyzed: 11/18/2023

1-Methylnaphthalene	0.197	0.002	mg/kg	0.200	ND	98.4	70-130			
2-Methylnaphthalene	0.190	0.002	"	0.200	ND	95.0	70-130			
Acenaphthene	0.196	0.020	"	0.200	ND	98.0	70-130			
Anthracene	0.190	0.020	"	0.200	ND	94.8	70-130			
Benzo (a) anthracene	0.175	0.005	"	0.200	0.0006	87.2	70-130			
Benzo (a) pyrene	0.195	0.020	"	0.200	ND	97.7	70-130			
Benzo (b) fluoranthene	0.205	0.020	"	0.200	ND	102	70-130			
Benzo (g,h,i) perylene	0.197	0.020	"	0.200	ND	98.4	70-130			

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B3K1632 - EPA 3580

Matrix Spike (B3K1632-MS1)		Source: Y311372-01			Prepared: 11/16/2023 Analyzed: 11/18/2023					
Benzo (k) fluoranthene	0.197	0.020	mg/kg	0.200	ND	98.4	70-130			
Chrysene	0.183	0.020	"	0.200	0.0003	91.1	70-130			
Dibenz (a,h) anthracene	0.194	0.020	"	0.200	ND	97.2	70-130			
Fluoranthene	0.187	0.020	"	0.200	ND	93.5	70-130			
Fluorene	0.195	0.020	"	0.200	ND	97.6	70-130			
Indeno (1,2,3-cd) pyrene	0.185	0.020	"	0.200	ND	92.7	70-130			
Naphthalene	0.201	0.002	"	0.200	ND	101	70-130			
Phenanthrene	0.187	0.020	"	0.200	ND	93.6	70-130			
Pyrene	0.186	0.020	"	0.200	ND	93.2	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.8	60-130			
Surrogate: Anthracene-d10	180		"	200		91.8	60-130			
Surrogate: Pyrene-d10	190		"	200		97.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.5	60-130			

Matrix Spike Dup (B3K1632-MSD1)		Source: Y311372-01			Prepared: 11/16/2023 Analyzed: 11/18/2023					
1-Methylnaphthalene	0.202	0.002	mg/kg	0.200	ND	101	70-130	2.40	20	
2-Methylnaphthalene	0.197	0.002	"	0.200	ND	98.5	70-130	3.59	20	
Acenaphthene	0.202	0.020	"	0.200	ND	101	70-130	2.98	20	
Anthracene	0.175	0.020	"	0.200	ND	87.3	70-130	8.21	20	
Benzo (a) anthracene	0.183	0.005	"	0.200	0.0006	91.0	70-130	4.19	20	
Benzo (a) pyrene	0.204	0.020	"	0.200	ND	102	70-130	4.29	20	
Benzo (b) fluoranthene	0.201	0.020	"	0.200	ND	101	70-130	1.66	20	
Benzo (g,h,i) perylene	0.211	0.020	"	0.200	ND	106	70-130	6.94	20	
Benzo (k) fluoranthene	0.196	0.020	"	0.200	ND	98.2	70-130	0.243	20	
Chrysene	0.186	0.020	"	0.200	0.0003	93.1	70-130	2.11	20	
Dibenz (a,h) anthracene	0.198	0.020	"	0.200	ND	99.2	70-130	1.97	20	
Fluoranthene	0.200	0.020	"	0.200	ND	100	70-130	6.99	20	

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B3K1632 - EPA 3580

Matrix Spike Dup (B3K1632-MSD1)	Source: Y311372-01			Prepared: 11/16/2023 Analyzed: 11/18/2023						
Fluorene	0.203	0.020	mg/kg	0.200	ND	102	70-130	4.07	20	
Indeno (1,2,3-cd) pyrene	0.197	0.020	"	0.200	ND	98.7	70-130	6.29	20	
Naphthalene	0.216	0.002	"	0.200	ND	108	70-130	7.05	20	
Phenanthrene	0.191	0.020	"	0.200	ND	95.7	70-130	2.17	20	
Pyrene	0.183	0.020	"	0.200	ND	91.7	70-130	1.67	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.0	60-130			
Surrogate: Anthracene-d10	180		"	200		90.1	60-130			
Surrogate: Pyrene-d10	190		"	200		95.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3K1610 - DTPA Sorbitol Preparation

Blank (B3K1610-BLK1)

Prepared: 11/16/2023 Analyzed: 11/17/2023

Boron ND 0.100 mg/L

Duplicate (B3K1610-DUP1)

Source: Y311375-01

Prepared: 11/16/2023 Analyzed: 11/17/2023

Boron 0.0782 0.100 mg/L 0.124 45.4 50

Batch B3K1612 - Saturated Paste Metals

Blank (B3K1612-BLK1)

Prepared: 11/16/2023 Analyzed: 11/17/2023

Calcium PPM ND 10.0 mg/L

SAR ND 0.0100 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B3K1612-DUP1)

Source: Y311376-01

Prepared: 11/16/2023 Analyzed: 11/17/2023

SAR ND 0.0100 SAR 2.07 200

Calcium PPM 18.3 10.0 mg/L 18.8 2.54 50

Magnesium PPM 5.88 10.0 " 5.85 0.512 50

Sodium PPM 38.6 10.0 " 40.0 3.62 50

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3K1614 - Saturated Paste pH/EC										
Blank (B3K1614-BLK1)					Prepared: 11/16/2023 Analyzed: 11/17/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3K1614-DUP1)					Source: Y311376-01 Prepared: 11/16/2023 Analyzed: 11/17/2023					
pH	8.11		pH Units		8.24			1.59	25	
Specific Conductance (EC)	0.349	0.00500	mmhos/cm		0.344			1.33	25	

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L717955 -										
DUP (L 98403-DUP)		Source: 98403			Prepared: Analyzed: 11/20/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 98403-MS)		Source: 98403			Prepared: Analyzed: 11/20/2023					
Chromium, Hexavalent	34.9	2.5	mg/Kg	39.1	<1.22	89	75-125			
LCS (LCS)					Prepared: Analyzed: 11/20/2023					
Chromium, Hexavalent	6.87	0.5	mg/Kg	8		86	75-125			
LRB (LRB)					Prepared: Analyzed: 11/20/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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

Andrew Newberry
Project Number: [none]
Project: Noble - Sater CC #18-17D

Notes and Definitions

U Sample is Non-Detect.

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 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



January 15, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Sater CC #18-17D

Project Number - [none]

Attached are your analytical results for Noble - Sater CC #18-17D received by Origins Laboratory, Inc. December 13, 2023. This project is associated with Origins project number Y312376-01.

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

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

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

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

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

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



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

Andrew Newberry
Project Number: [none]
Project: Noble - Sater CC #18-17D

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@2'	Y312376-01	Soil	November 14, 2023 14:30	12/13/2023 11:40

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: V312376

Client: Eagle

Client Project ID: Sater CC #18-17D

Checklist Completed by: TJH

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 12/13/12

Airbill #: N/A

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

Water

Other:

(Describe)

Cooler Number/Temperature: 1, 2 °C / °C / °C

Thermometer ID: T004

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

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 12-14-12

Origins Laboratory, Inc.

[Signature]

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

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

Background-01@2'
11/14/2023 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312376-01 (Soil)

pH in Soil by 9045D

pH	8.25			pH Units	1	B3L1523	12/15/2023	12/17/2023	
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Total Metals by 6020B

Arsenic	1.45	0.0855	0.25	mg/Kg	5	L724504	12/22/2023	01/11/2024	
Barium	84.7	0.042	0.25	"	"	"	"	01/12/2024	

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B3L1523 - Saturated Paste pH/EC

Duplicate (B3L1523-DUP1)

Source: Y312336-01

Prepared: 12/15/2023 Analyzed: 12/17/2023

pH	8.16		pH Units		8.20			0.489	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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

Total Metals by 6020B - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L724504 - 3050B										
MSD (L 86302-MSD-L724504)			Source: 86302		Prepared: 12/22/2023 Analyzed: 01/11/2024					
Barium	44.3	0.25	mg/Kg	4.99	48	0	75-125	7.2	80	I*
Arsenic	2.72	0.25	"	2.5	1.09	65	75-125	6.8	80	*
MS (L 86302-MS-L724504)			Source: 86302		Prepared: 12/22/2023 Analyzed: 01/11/2024					
Barium	41.2	0.25	mg/Kg	4.64	48	0	75-125			I*
Arsenic	2.54	0.25	"	2.32	1.09	62	75-125			*
LCS (LCS-L724504)					Prepared: 12/22/2023 Analyzed: 01/12/2024					
Barium	4.74	0.25	mg/Kg	5		95	80-120			
Arsenic	2.36	0.25	"	2.5		94	80-120			
LRB (LRB-L724504)					Prepared: 12/22/2023 Analyzed: 01/11/2024					
Barium	ND	0.25	mg/Kg				-			
Arsenic	ND	0.25	"				-			

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

Andrew Newberry
Project Number: [none]
Project: Noble - Sater CC #18-17D

Notes and Definitions

I* [Undefined]

* 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



February 01, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Sater CC #18-17D

Project Number - [none]

Attached are your analytical results for Noble - Sater CC #18-17D received by Origins Laboratory, Inc. January 18, 2024. This project is associated with Origins project number Y401443-01.

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

Andrew Newberry
Project Number: [none]
Project: Noble - Sater CC #18-17D

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS-03@4'	Y401443-01	Soil	January 18, 2024 14:30	01/18/2024 17:03
Background-02@2'	Y401443-02	Soil	January 18, 2024 14:51	01/18/2024 17:03

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1401443 Client: Eagle
 Client Project ID: Sater CC18-17D
 Checklist Completed by: EHS Shipped Via: HD
 Date/time completed: 1/18/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 113 °C 1 °C 1 °C (Describe)
 Thermometer ID: 1004

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

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 1/22/24

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

FL-SS-03@4'

1/18/2024 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401443-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0998	mg/L	1	B4A2211	01/22/2024	01/23/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4A1903	01/19/2024	01/23/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	104 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4A1950	01/19/2024	01/22/2024	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

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

FL-SS-03@4'
1/18/2024 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401443-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	113 %		70-130			B4A19 50	01/19/2024	01/22/2024	
Surrogate: Toluene-d8	97.4 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	01/22/2024	01/23/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4A1929	01/19/2024	01/23/2024	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 (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

FL-SS-03@4'

1/18/2024 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401443-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B4A1929	01/19/2024	01/23/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.7 %		60-130			"	"	"	
Surrogate: Anthracene-d10	107 %		60-130			"	"	"	
Surrogate: Pyrene-d10	103 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	109 %		60-130			"	"	"	

pH in Soil by 9045D

pH	7.71			pH Units	1	B4A2212	01/22/2024	01/23/2024	
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SAR by 20B Saturated Paste

SAR	0.159		0.0100	SAR	1	B4A2206	01/22/2024	01/23/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0755		0.00500	mmhos/cm	1	B4A2212	01/22/2024	01/23/2024	
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Table 915 metals by EPA 6020B

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

FL-SS-03@4'

1/18/2024 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401443-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.33		0.0894	mg/kg	10	B4A1842	01/18/2024	01/23/2024	
Barium	35.6		8.94	"	"	"	"	"	
Cadmium	ND		0.0894	"	"	"	"	"	
Copper	ND		8.94	"	"	"	"	"	
Lead	4.23		0.894	"	"	"	"	"	
Nickel	4.11		0.894	"	"	"	"	"	
Selenium	ND		0.0894	"	"	"	"	"	
Silver	ND		0.0894	"	"	"	"	"	
Zinc	18.0		8.94	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L729671	01/18/2024	01/30/2024	
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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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

Background-02@2'
1/18/2024 2:51:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401443-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.665		0.0999	mg/L	1	B4A2211	01/22/2024	01/23/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	4.45		0.499	meq/L	10	[CALC]	01/22/2024	01/23/2024	
Magnesium	1.60		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.11			pH Units	1	B4A2212	01/22/2024	01/23/2024	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	0.0695		0.0100	SAR	1	B4A2206	01/22/2024	01/23/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.29		0.00500	mmhos/cm	1	B4A2212	01/22/2024	01/23/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.65		0.0912	mg/kg	10	B4A1842	01/18/2024	01/23/2024	
Barium	69.5		9.12	"	"	"	"	"	
Cadmium	0.182		0.0912	"	"	"	"	"	
Copper	10.2		9.12	"	"	"	"	"	

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

Background-02@2'
1/18/2024 2:51:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401443-02 (Soil)

Table 915 metals by EPA 6020B

Lead	8.86		0.912	mg/kg	10	B4A1842	01/18/2024	01/23/2024	
Nickel	5.78		0.912	"	"	"	"	"	
Selenium	0.137		0.0912	"	"	"	"	"	
Silver	ND		0.0912	"	"	"	"	"	
Zinc	54.9		9.12	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	5	L729672	01/18/2024	01/30/2024	
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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A1903 - EPA 3550B										
Blank (B4A1903-BLK1)										
					Prepared: 01/19/2024 Analyzed: 01/23/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		106	50-150			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A1903 - EPA 3550B

LCS (B4A1903-BS1)

Prepared: 01/19/2024 Analyzed: 01/23/2024

Diesel (C10-C28)	933	50.0	mg/kg	1000		93.3	70-130			
Residual Range Organics (C28-C40)	914	200	"	1000		91.4	70-130			
Surrogate: o-Terphenyl	59		"	49.8		119	50-150			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A1903 - EPA 3550B

Matrix Spike (B4A1903-MS1)	Source: Y401440-01			Prepared: 01/19/2024 Analyzed: 01/23/2024						
Diesel (C10-C28)	941	50.0	mg/kg	1000	ND	94.1	70-130			
Residual Range Organics (C28-C40)	920	200	"	1000	ND	92.0	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A1903 - EPA 3550B										
Matrix Spike Dup (B4A1903-MSD1)					Source: Y401440-01					Prepared: 01/19/2024 Analyzed: 01/23/2024
Diesel (C10-C28)	896	50.0	mg/kg	1000	ND	89.6	70-130	4.96	35	
Residual Range Organics (C28-C40)	891	200	"	1000	ND	89.1	70-130	3.27	35	
Surrogate: o-Terphenyl	62		"	49.8		125	50-150			

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 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A1950 - EPA 5030 (soil)

Blank (B4A1950-BLK1)

Prepared: 01/19/2024 Analyzed: 01/22/2024

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	107		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	96.7		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	101		70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A1950 - EPA 5030 (soil)

LCS (B4A1950-BS1)

Prepared: 01/19/2024 Analyzed: 01/22/2024

1,2,4-Trimethylbenzene	0.0994	0.00200	mg/kg	0.100		99.4	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Benzene	0.0991	0.00200	"	0.100		99.1	70-130			
Ethylbenzene	0.0962	0.00200	"	0.100		96.2	70-130			
Naphthalene	0.108	0.00380	"	0.100		108	70-130			
Toluene	0.100	0.00200	"	0.100		100	70-130			
o-Xylene	0.0955	0.00200	"	0.100		95.5	70-130			
m,p-Xylene	0.201	0.00400	"	0.200		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.8	70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A1950 - EPA 5030 (soil)

Matrix Spike (B4A1950-MS1)	Source: Y401443-01			Prepared: 01/19/2024 Analyzed: 01/22/2024						
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130			
Benzene	0.0920	0.00200	"	0.100	ND	92.0	70-130			
Ethylbenzene	0.0990	0.00200	"	0.100	ND	99.0	70-130			
Naphthalene	0.0877	0.00380	"	0.100	ND	87.7	70-130			
Toluene	0.0977	0.00200	"	0.100	ND	97.7	70-130			
o-Xylene	0.0952	0.00200	"	0.100	ND	95.2	70-130			
m,p-Xylene	0.204	0.00400	"	0.200	ND	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.6	70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A1950 - EPA 5030 (soil)

Matrix Spike Dup (B4A1950-MSD1)	Source: Y401443-01			Prepared: 01/19/2024 Analyzed: 01/22/2024						
1,2,4-Trimethylbenzene	0.0966	0.00200	mg/kg	0.100	ND	96.6	70-130	5.32	20	
1,3,5-Trimethylbenzene	0.0981	0.00200	"	0.100	ND	98.1	70-130	6.24	20	
Benzene	0.0937	0.00200	"	0.100	ND	93.7	70-130	1.81	20	
Ethylbenzene	0.0939	0.00200	"	0.100	ND	93.9	70-130	5.27	20	
Naphthalene	0.104	0.00380	"	0.100	ND	104	70-130	17.0	20	
Toluene	0.0959	0.00200	"	0.100	ND	95.9	70-130	1.90	20	
o-Xylene	0.0915	0.00200	"	0.100	ND	91.5	70-130	3.98	20	
m,p-Xylene	0.194	0.00400	"	0.200	ND	97.1	70-130	5.09	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.1	70-130			

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 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A1842 - EPA 3050B

Blank (B4A1842-BLK1)

Prepared: 01/18/2024 Analyzed: 01/25/2024

Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							
Cadmium	ND	0.0100	"							
Copper	ND	1.00	"							
Lead	ND	0.100	"							
Nickel	ND	0.100	"							
Selenium	ND	0.0100	"							
Silver	ND	0.0100	"							
Zinc	ND	1.00	"							

LCS (B4A1842-BS1)

Prepared: 01/18/2024 Analyzed: 01/23/2024

Arsenic	4.51	0.0100	mg/kg	5.00		90.1	80-120			
Barium	443	1.00	"	500		88.6	80-120			
Cadmium	4.78	0.0100	"	5.00		95.5	80-120			
Copper	48.6	1.00	"	50.0		97.1	80-120			
Lead	5.07	0.100	"	5.00		101	80-120			
Nickel	4.86	0.100	"	5.00		97.1	80-120			
Selenium	4.71	0.0100	"	5.00		94.2	80-120			
Silver	4.84	0.0100	"	5.00		96.8	80-120			
Zinc	47.8	1.00	"	50.0		95.5	80-120			

Matrix Spike (B4A1842-MS1)

Source: Y401382-07

Prepared: 01/18/2024 Analyzed: 01/23/2024

Origins Laboratory, Inc.



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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A1842 - EPA 3050B

Matrix Spike (B4A1842-MS1)		Source: Y401382-07			Prepared: 01/18/2024 Analyzed: 01/23/2024					
Arsenic	5.03	0.0858	mg/kg	4.29	1.72	77.0	75-125			
Barium	399	8.58	"	429	35.6	84.7	75-125			
Cadmium	4.28	0.0858	"	4.29	0.295	92.8	75-125			
Copper	49.3	8.58	"	42.9	11.1	89.1	75-125			
Lead	17.6	0.858	"	4.29	14.5	73.2	75-125			QM-07
Nickel	7.43	0.858	"	4.29	3.50	91.6	75-125			
Selenium	3.86	0.0858	"	4.29	0.0881	88.0	75-125			
Silver	3.75	0.0858	"	4.29	0.0492	86.4	75-125			
Zinc	111	8.58	"	42.9	62.8	112	75-125			

Matrix Spike Dup (B4A1842-MSD1)		Source: Y401382-07			Prepared: 01/18/2024 Analyzed: 01/23/2024					
Arsenic	5.81	0.0884	mg/kg	4.42	1.72	92.5	75-125	14.5	20	
Barium	471	8.84	"	442	35.6	98.4	75-125	16.5	20	
Cadmium	5.04	0.0884	"	4.42	0.295	107	75-125	16.3	20	
Copper	57.2	8.84	"	44.2	11.1	104	75-125	14.7	20	
Lead	18.6	0.884	"	4.42	14.5	93.5	75-125	5.47	20	
Nickel	8.49	0.884	"	4.42	3.50	113	75-125	13.3	20	
Selenium	4.34	0.0884	"	4.42	0.0881	96.3	75-125	11.7	20	
Silver	4.36	0.0884	"	4.42	0.0492	97.6	75-125	15.0	20	
Zinc	113	8.84	"	44.2	62.8	113	75-125	1.70	20	

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A1929 - EPA 3580

Blank (B4A1929-BLK1)

Prepared: 01/19/2024 Analyzed: 01/24/2024

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	200		ug/kg	200		97.7	60-130			
Surrogate: Anthracene-d10	210		"	200		104	60-130			
Surrogate: Pyrene-d10	210		"	200		107	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		111	60-130			

LCS (B4A1929-BS1)

Prepared: 01/19/2024 Analyzed: 01/24/2024

1-Methylnaphthalene	0.187	0.002	mg/kg	0.200		93.7	70-130			
2-Methylnaphthalene	0.190	0.002	"	0.200		94.8	70-130			
Acenaphthene	0.172	0.020	"	0.200		86.1	70-130			
Anthracene	0.191	0.020	"	0.200		95.3	70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A1929 - EPA 3580

LCS (B4A1929-BS1)

Prepared: 01/19/2024 Analyzed: 01/24/2024

Benzo (a) anthracene	0.167	0.005	mg/kg	0.200		83.5	70-130			
Benzo (a) pyrene	0.200	0.020	"	0.200		99.8	70-130			
Benzo (b) fluoranthene	0.183	0.020	"	0.200		91.3	70-130			
Benzo (g,h,i) perylene	0.187	0.020	"	0.200		93.3	70-130			
Benzo (k) fluoranthene	0.168	0.020	"	0.200		83.9	70-130			
Chrysene	0.182	0.020	"	0.200		91.0	70-130			
Dibenz (a,h) anthracene	0.227	0.020	"	0.200		114	70-130			
Fluoranthene	0.161	0.020	"	0.200		80.3	70-130			
Fluorene	0.174	0.020	"	0.200		87.1	70-130			
Indeno (1,2,3-cd) pyrene	0.207	0.020	"	0.200		104	70-130			
Naphthalene	0.178	0.002	"	0.200		89.2	70-130			
Phenanthrene	0.181	0.020	"	0.200		90.7	70-130			
Pyrene	0.151	0.020	"	0.200		75.6	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	190		"	200		94.3	60-130			
Surrogate: Benzo (a) pyrene-d12	230		"	200		113	60-130			

Matrix Spike (B4A1929-MS1)

Source: Y401406-01

Prepared: 01/19/2024 Analyzed: 01/24/2024

1-Methylnaphthalene	0.195	0.002	mg/kg	0.200	0.0005	97.3	70-130			
2-Methylnaphthalene	0.196	0.002	"	0.200	ND	97.8	70-130			
Acenaphthene	0.168	0.020	"	0.200	0.0003	83.9	70-130			
Anthracene	0.197	0.020	"	0.200	ND	98.6	70-130			
Benzo (a) anthracene	0.166	0.005	"	0.200	0.0007	82.8	70-130			
Benzo (a) pyrene	0.191	0.020	"	0.200	ND	95.7	70-130			
Benzo (b) fluoranthene	0.185	0.020	"	0.200	0.0006	92.3	70-130			
Benzo (g,h,i) perylene	0.188	0.020	"	0.200	0.0007	93.5	70-130			

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A1929 - EPA 3580

Matrix Spike (B4A1929-MS1)		Source: Y401406-01			Prepared: 01/19/2024 Analyzed: 01/24/2024					
Benzo (k) fluoranthene	0.167	0.020	mg/kg	0.200	0.0008	83.2	70-130			
Chrysene	0.169	0.020	"	0.200	0.0003	84.2	70-130			
Dibenz (a,h) anthracene	0.228	0.020	"	0.200	0.0008	114	70-130			
Fluoranthene	0.160	0.020	"	0.200	ND	80.2	70-130			
Fluorene	0.166	0.020	"	0.200	0.0002	82.7	70-130			
Indeno (1,2,3-cd) pyrene	0.198	0.020	"	0.200	ND	99.2	70-130			
Naphthalene	0.177	0.002	"	0.200	ND	88.6	70-130			
Phenanthrene	0.187	0.020	"	0.200	ND	93.4	70-130			
Pyrene	0.162	0.020	"	0.200	ND	80.9	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		95.7	60-130			
Surrogate: Anthracene-d10	210		"	200		107	60-130			
Surrogate: Pyrene-d10	180		"	200		89.5	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.1	60-130			

Matrix Spike Dup (B4A1929-MSD1)		Source: Y401406-01			Prepared: 01/19/2024 Analyzed: 01/24/2024					
1-Methylnaphthalene	0.186	0.002	mg/kg	0.200	0.0005	92.6	70-130	4.88	20	
2-Methylnaphthalene	0.184	0.002	"	0.200	ND	91.9	70-130	6.26	20	
Acenaphthene	0.168	0.020	"	0.200	0.0003	84.0	70-130	0.0709	20	
Anthracene	0.176	0.020	"	0.200	ND	88.1	70-130	11.3	20	
Benzo (a) anthracene	0.171	0.005	"	0.200	0.0007	85.3	70-130	3.03	20	
Benzo (a) pyrene	0.195	0.020	"	0.200	ND	97.4	70-130	1.74	20	
Benzo (b) fluoranthene	0.165	0.020	"	0.200	0.0006	82.4	70-130	11.2	20	
Benzo (g,h,i) perylene	0.184	0.020	"	0.200	0.0007	91.8	70-130	1.86	20	
Benzo (k) fluoranthene	0.173	0.020	"	0.200	0.0008	86.0	70-130	3.32	20	
Chrysene	0.187	0.020	"	0.200	0.0003	93.2	70-130	10.1	20	
Dibenz (a,h) anthracene	0.212	0.020	"	0.200	0.0008	106	70-130	7.31	20	
Fluoranthene	0.165	0.020	"	0.200	ND	82.4	70-130	2.68	20	

Origins Laboratory, Inc.



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

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A1929 - EPA 3580

Matrix Spike Dup (B4A1929-MSD1)	Source: Y401406-01			Prepared: 01/19/2024 Analyzed: 01/24/2024						
Fluorene	0.169	0.020	mg/kg	0.200	0.0002	84.4	70-130	2.05	20	
Indeno (1,2,3-cd) pyrene	0.187	0.020	"	0.200	ND	93.3	70-130	6.17	20	
Naphthalene	0.176	0.002	"	0.200	ND	88.2	70-130	0.424	20	
Phenanthrene	0.184	0.020	"	0.200	ND	92.2	70-130	1.33	20	
Pyrene	0.157	0.020	"	0.200	ND	78.6	70-130	2.82	20	
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	220		"	200		110	60-130			
Surrogate: Pyrene-d10	190		"	200		92.9	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		111	60-130			

Origins Laboratory, Inc.



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

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A2206 - Saturated Paste Metals

Blank (B4A2206-BLK1)

Prepared: 01/22/2024 Analyzed: 01/23/2024

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

Duplicate (B4A2206-DUP1)

Source: Y401440-01

Prepared: 01/22/2024 Analyzed: 01/23/2024

SAR	ND	0.0100	SAR		5.60				200	
Calcium PPM	12.6	10.0	mg/L		11.2			11.9	50	
Magnesium PPM	2.34	10.0	"		2.06			12.7	50	
Sodium PPM	84.8	10.0	"		77.7			8.70	50	

Batch B4A2211 - DTPA Sorbitol Preparation

Blank (B4A2211-BLK1)

Prepared: 01/22/2024 Analyzed: 01/23/2024

Boron	ND	0.100	mg/L							
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Duplicate (B4A2211-DUP1)

Source: Y401440-02

Prepared: 01/22/2024 Analyzed: 01/23/2024

Boron	0.451	0.0998	mg/L		0.484			7.09	50	
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Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A2212 - Saturated Paste pH/EC

Blank (B4A2212-BLK1)

Prepared: 01/22/2024 Analyzed: 01/23/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4A2212-DUP1)

Source: Y401440-01

Prepared: 01/22/2024 Analyzed: 01/23/2024

Specific Conductance (EC)	0.450	0.00500	mmhos/cm		0.466		3.62	25	
pH	8.53		pH Units		8.53		0.00	25	

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

**Total Metals by 7196A - Quality Control
 Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L729672 -										
DUP (L 91060-DUP)		Source: Y401443-02			Prepared: Analyzed: 01/30/2024					
Chromium, Hexavalent	ND	2.5	mg/Kg		<2.50		-	0	20	
MS (L 91060-MS)		Source: Y401443-02			Prepared: Analyzed: 01/30/2024					
Chromium, Hexavalent	17.6	2.5	mg/Kg	39.7	<1.22	44	75-125			*
LCS (LCS)		Prepared: Analyzed: 01/30/2024								
Chromium, Hexavalent	6.03	0.5	mg/Kg	8		75	75-125			
LRB (LRB)		Prepared: Analyzed: 01/30/2024								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L729671 -										
DUP (L 90281-DUP)		Source: 90281			Prepared: Analyzed: 01/30/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 90281-MS)		Source: 90281			Prepared: Analyzed: 01/30/2024					
Chromium, Hexavalent	19.4	2.5	mg/Kg	39	< 0.244	50	75-125			*
LCS (LCS)		Prepared: Analyzed: 01/30/2024								
Chromium, Hexavalent	6.19	0.5	mg/Kg	8		77	75-125			
LRB (LRB)		Prepared: Analyzed: 01/30/2024								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - Sater CC #18-17D

Notes and Definitions

U Sample is Non-Detect.

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

* 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



January 31, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Sater CC #18-17D

Project Number - [none]

Attached are your analytical results for Noble - Sater CC #18-17D received by Origins Laboratory, Inc. January 19, 2024. This project is associated with Origins project number Y401488-01.

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

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

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

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

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

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



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

Andrew Newberry
Project Number: [none]
Project: Noble - Sater CC #18-17D

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS-06@4'	Y401488-01	Soil	January 19, 2024 14:15	01/19/2024 16:32

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

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1401488 Client: Eagle
 Client Project ID: Sater CC 18-17D
 Checklist Completed by: EHS Shipped Via: HD
 Date/time completed: 1/19/12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): 0 Soil/Solid 0 Water 0 Other: _____
 Cooler Number/Temperature: 1, 4.4 °C / _____ °C / _____ °C (Describe) _____ °C
 Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note 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 1/23/12

Origins Laboratory, Inc.

[Signature]

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

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

FL-SS-06@4'

1/19/2024 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401488-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0999	mg/L	1	B4A2310	01/23/2024	01/24/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4A2301	01/23/2024	01/24/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	104 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4A2229	01/22/2024	01/22/2024	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

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

FL-SS-06@4'
1/19/2024 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401488-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			B4A22 29	01/22/2024	01/22/2024	
Surrogate: Toluene-d8	99.8 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.6 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	01/22/2024	01/23/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4A2222	01/22/2024	01/24/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	0.005		0.005	"	"	"	"	"	
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

FL-SS-06@4'

1/19/2024 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401488-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B4A2222	01/22/2024	01/24/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	104 %		60-130			"	"	"	
Surrogate: Anthracene-d10	105 %		60-130			"	"	"	
Surrogate: Pyrene-d10	101 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	109 %		60-130			"	"	"	

pH in Soil by 9045D

pH	7.72			pH Units	1	B4A2213	01/22/2024	01/23/2024	
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SAR by 20B Saturated Paste

SAR	0.286		0.0100	SAR	1	B4A2207	01/22/2024	01/23/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0839		0.00500	mmhos/cm	1	B4A2213	01/22/2024	01/23/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

FL-SS-06@4'

1/19/2024 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401488-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.56		0.0860	mg/kg	10	B4A1942	01/23/2024	01/25/2024	
Barium	36.4		8.60	"	"	"	"	"	
Cadmium	ND		0.0860	"	"	"	"	"	
Copper	ND		8.60	"	"	"	"	"	
Lead	3.24		0.860	"	"	"	"	"	
Nickel	3.10		0.860	"	"	"	"	"	
Selenium	ND		0.0860	"	"	"	"	"	
Silver	ND		0.0860	"	"	"	"	"	
Zinc	12.3		8.60	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L729225	01/19/2024	01/26/2024	
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Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A2229 - EPA 5030 (soil)

Blank (B4A2229-BLK1)

Prepared: 01/22/2024 Analyzed: 01/22/2024

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	0.12		"	0.125	99.1		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.0		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	101		70-130			

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A2229 - EPA 5030 (soil)

LCS (B4A2229-BS1)

Prepared: 01/22/2024 Analyzed: 01/22/2024

1,2,4-Trimethylbenzene	0.119	0.00200	mg/kg	0.100		119	70-130			
1,3,5-Trimethylbenzene	0.119	0.00200	"	0.100		119	70-130			
Benzene	0.104	0.00200	"	0.100		104	70-130			
Ethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Naphthalene	0.113	0.00380	"	0.100		113	70-130			
Toluene	0.105	0.00200	"	0.100		105	70-130			
o-Xylene	0.116	0.00200	"	0.100		116	70-130			
m,p-Xylene	0.225	0.00400	"	0.200		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A2229 - EPA 5030 (soil)

Matrix Spike (B4A2229-MS1)	Source: Y401403-01			Prepared: 01/22/2024 Analyzed: 01/22/2024						
1,2,4-Trimethylbenzene	0.119	0.00200	mg/kg	0.100	ND	119	70-130			
1,3,5-Trimethylbenzene	0.118	0.00200	"	0.100	ND	118	70-130			
Benzene	0.105	0.00200	"	0.100	ND	105	70-130			
Ethylbenzene	0.110	0.00200	"	0.100	ND	110	70-130			
Naphthalene	0.115	0.00380	"	0.100	ND	115	70-130			
Toluene	0.104	0.00200	"	0.100	ND	104	70-130			
o-Xylene	0.116	0.00200	"	0.100	ND	116	70-130			
m,p-Xylene	0.225	0.00400	"	0.200	ND	112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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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 B4A2229 - EPA 5030 (soil)

Matrix Spike Dup (B4A2229-MSD1)	Source: Y401403-01			Prepared: 01/22/2024 Analyzed: 01/22/2024						
1,2,4-Trimethylbenzene	0.116	0.00200	mg/kg	0.100	ND	116	70-130	2.04	20	
1,3,5-Trimethylbenzene	0.115	0.00200	"	0.100	ND	115	70-130	2.47	20	
Benzene	0.104	0.00200	"	0.100	ND	104	70-130	0.421	20	
Ethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130	1.65	20	
Naphthalene	0.119	0.00380	"	0.100	ND	119	70-130	3.47	20	
Toluene	0.102	0.00200	"	0.100	ND	102	70-130	1.98	20	
o-Xylene	0.114	0.00200	"	0.100	ND	114	70-130	1.88	20	
m,p-Xylene	0.220	0.00400	"	0.200	ND	110	70-130	2.12	20	
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		101	70-130			

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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 B4A2301 - EPA 3550B										
Blank (B4A2301-BLK1)										
					Prepared: 01/23/2024 Analyzed: 01/24/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	27		"	24.9		107	50-150			

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 Project: Noble - Sater CC #18-17D

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 B4A2301 - EPA 3550B

LCS (B4A2301-BS1)

Prepared: 01/23/2024 Analyzed: 01/24/2024

Diesel (C10-C28)	970	50.0	mg/kg	1000		97.0	70-130			
Residual Range Organics (C28-C40)	890	200	"	1000		89.0	70-130			
Surrogate: o-Terphenyl	61		"	49.8		124	50-150			

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 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A2301 - EPA 3550B

Matrix Spike (B4A2301-MS1)	Source: Y401417-01			Prepared: 01/23/2024 Analyzed: 01/24/2024						
Diesel (C10-C28)	1150	50.0	mg/kg	1000	ND	115	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000	ND	105	70-130			
Surrogate: o-Terphenyl	59		"	49.8		118	50-150			

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 Project: Noble - Sater CC #18-17D

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 B4A2301 - EPA 3550B

Matrix Spike Dup (B4A2301-MSD1)	Source: Y401417-01		Prepared: 01/23/2024 Analyzed: 01/24/2024							
Diesel (C10-C28)	981	50.0	mg/kg	1000	ND	98.1	70-130	15.9	35	
Residual Range Organics (C28-C40)	888	200	"	1000	ND	88.8	70-130	16.3	35	
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

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 Project: Noble - Sater CC #18-17D

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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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 B4A1942 - EPA 3050B

Blank (B4A1942-BLK1)

Prepared: 01/23/2024 Analyzed: 01/25/2024

Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							
Cadmium	ND	0.0100	"							
Copper	ND	1.00	"							
Lead	ND	0.100	"							
Nickel	ND	0.100	"							
Selenium	ND	0.0100	"							
Silver	ND	0.0100	"							
Zinc	ND	1.00	"							

LCS (B4A1942-BS1)

Prepared: 01/23/2024 Analyzed: 01/25/2024

Arsenic	5.27	0.0100	mg/kg	5.00		105	80-120			
Barium	542	1.00	"	500		108	80-120			
Cadmium	5.21	0.0100	"	5.00		104	80-120			
Copper	52.5	1.00	"	50.0		105	80-120			
Lead	5.33	0.100	"	5.00		107	80-120			
Nickel	5.50	0.100	"	5.00		110	80-120			
Selenium	4.86	0.0100	"	5.00		97.3	80-120			
Silver	5.83	0.0100	"	5.00		117	80-120			
Zinc	54.7	1.00	"	50.0		109	80-120			

Matrix Spike (B4A1942-MS1)

Source: Y401488-01

Prepared: 01/23/2024 Analyzed: 01/25/2024

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 Project: Noble - Sater CC #18-17D

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 B4A1942 - EPA 3050B

Matrix Spike (B4A1942-MS1)		Source: Y401488-01			Prepared: 01/23/2024 Analyzed: 01/25/2024					
Arsenic	6.10	0.0904	mg/kg	4.52	1.56	100	75-125			
Barium	535	9.04	"	452	36.4	110	75-125			
Cadmium	4.79	0.0904	"	4.52	0.0318	105	75-125			
Copper	49.4	9.04	"	45.2	2.62	103	75-125			
Lead	8.00	0.904	"	4.52	3.24	105	75-125			
Nickel	7.82	0.904	"	4.52	3.10	104	75-125			
Selenium	4.42	0.0904	"	4.52	0.0430	96.8	75-125			
Silver	4.75	0.0904	"	4.52	0.0103	105	75-125			
Zinc	58.8	9.04	"	45.2	12.3	103	75-125			

Matrix Spike Dup (B4A1942-MSD1)		Source: Y401488-01			Prepared: 01/23/2024 Analyzed: 01/25/2024					
Arsenic	5.85	0.0858	mg/kg	4.29	1.56	100	75-125	4.14	20	
Barium	515	8.58	"	429	36.4	112	75-125	3.77	20	
Cadmium	4.55	0.0858	"	4.29	0.0318	105	75-125	5.24	20	
Copper	46.3	8.58	"	42.9	2.62	102	75-125	6.29	20	
Lead	7.52	0.858	"	4.29	3.24	99.9	75-125	6.23	20	
Nickel	7.61	0.858	"	4.29	3.10	105	75-125	2.71	20	
Selenium	4.16	0.0858	"	4.29	0.0430	95.9	75-125	6.16	20	
Silver	4.40	0.0858	"	4.29	0.0103	102	75-125	7.65	20	
Zinc	56.5	8.58	"	42.9	12.3	103	75-125	3.93	20	

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A2222 - EPA 3580

Blank (B4A2222-BLK1)

Prepared: 01/22/2024 Analyzed: 01/24/2024

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	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	210		"	200		106	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		112	60-130			

LCS (B4A2222-BS1)

Prepared: 01/22/2024 Analyzed: 01/24/2024

1-Methylnaphthalene	0.178	0.002	mg/kg	0.200		89.2	70-130			
2-Methylnaphthalene	0.179	0.002	"	0.200		89.6	70-130			
Acenaphthene	0.161	0.020	"	0.200		80.7	70-130			
Anthracene	0.177	0.020	"	0.200		88.4	70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A2222 - EPA 3580

LCS (B4A2222-BS1)

Prepared: 01/22/2024 Analyzed: 01/24/2024

Benzo (a) anthracene	0.162	0.005	mg/kg	0.200		81.1	70-130			
Benzo (a) pyrene	0.193	0.020	"	0.200		96.4	70-130			
Benzo (b) fluoranthene	0.176	0.020	"	0.200		88.0	70-130			
Benzo (g,h,i) perylene	0.188	0.020	"	0.200		93.9	70-130			
Benzo (k) fluoranthene	0.175	0.020	"	0.200		87.6	70-130			
Chrysene	0.174	0.020	"	0.200		86.8	70-130			
Dibenz (a,h) anthracene	0.186	0.020	"	0.200		93.2	70-130			
Fluoranthene	0.157	0.020	"	0.200		78.7	70-130			
Fluorene	0.159	0.020	"	0.200		79.6	70-130			
Indeno (1,2,3-cd) pyrene	0.176	0.020	"	0.200		88.2	70-130			
Naphthalene	0.169	0.002	"	0.200		84.6	70-130			
Phenanthrene	0.177	0.020	"	0.200		88.6	70-130			
Pyrene	0.161	0.020	"	0.200		80.4	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	190		"	200		92.6	60-130			
Surrogate: Benzo (a) pyrene-d12	230		"	200		114	60-130			

Matrix Spike (B4A2222-MS1)

Source: Y401448-01

Prepared: 01/22/2024 Analyzed: 01/24/2024

1-Methylnaphthalene	0.186	0.002	mg/kg	0.200	0.0005	92.6	70-130			
2-Methylnaphthalene	0.187	0.002	"	0.200	ND	93.4	70-130			
Acenaphthene	0.169	0.020	"	0.200	0.0002	84.4	70-130			
Anthracene	0.185	0.020	"	0.200	0.0005	92.3	70-130			
Benzo (a) anthracene	0.166	0.005	"	0.200	0.002	81.6	70-130			
Benzo (a) pyrene	0.198	0.020	"	0.200	0.001	98.2	70-130			
Benzo (b) fluoranthene	0.200	0.020	"	0.200	0.001	99.6	70-130			
Benzo (g,h,i) perylene	0.183	0.020	"	0.200	0.001	90.8	70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A2222 - EPA 3580

Matrix Spike (B4A2222-MS1)		Source: Y401448-01			Prepared: 01/22/2024 Analyzed: 01/24/2024					
Benzo (k) fluoranthene	0.196	0.020	mg/kg	0.200	0.002	97.2	70-130			
Chrysene	0.184	0.020	"	0.200	ND	92.0	70-130			
Dibenz (a,h) anthracene	0.215	0.020	"	0.200	0.001	107	70-130			
Fluoranthene	0.163	0.020	"	0.200	0.0009	81.1	70-130			
Fluorene	0.169	0.020	"	0.200	0.0004	84.1	70-130			
Indeno (1,2,3-cd) pyrene	0.199	0.020	"	0.200	ND	99.4	70-130			
Naphthalene	0.172	0.002	"	0.200	ND	86.2	70-130			
Phenanthrene	0.182	0.020	"	0.200	ND	91.2	70-130			
Pyrene	0.172	0.020	"	0.200	0.0005	85.7	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	210		"	200		107	60-130			
Surrogate: Pyrene-d10	180		"	200		91.8	60-130			
Surrogate: Benzo (a) pyrene-d12	230		"	200		116	60-130			

Matrix Spike Dup (B4A2222-MSD1)		Source: Y401448-01			Prepared: 01/22/2024 Analyzed: 01/24/2024					
1-Methylnaphthalene	0.186	0.002	mg/kg	0.200	0.0005	92.6	70-130	0.0200	20	
2-Methylnaphthalene	0.188	0.002	"	0.200	ND	94.0	70-130	0.630	20	
Acenaphthene	0.168	0.020	"	0.200	0.0002	83.7	70-130	0.856	20	
Anthracene	0.182	0.020	"	0.200	0.0005	90.6	70-130	1.89	20	
Benzo (a) anthracene	0.168	0.005	"	0.200	0.002	82.6	70-130	1.12	20	
Benzo (a) pyrene	0.189	0.020	"	0.200	0.001	93.8	70-130	4.56	20	
Benzo (b) fluoranthene	0.177	0.020	"	0.200	0.001	88.0	70-130	12.2	20	
Benzo (g,h,i) perylene	0.170	0.020	"	0.200	0.001	84.7	70-130	6.92	20	
Benzo (k) fluoranthene	0.174	0.020	"	0.200	0.002	85.9	70-130	12.1	20	
Chrysene	0.196	0.020	"	0.200	ND	97.9	70-130	6.24	20	
Dibenz (a,h) anthracene	0.195	0.020	"	0.200	0.001	97.2	70-130	9.66	20	
Fluoranthene	0.178	0.020	"	0.200	0.0009	88.5	70-130	8.69	20	

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Andrew Newberry
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 Project: Noble - Sater CC #18-17D

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 B4A2222 - EPA 3580

Matrix Spike Dup (B4A2222-MSD1)	Source: Y401448-01			Prepared: 01/22/2024 Analyzed: 01/24/2024						
Fluorene	0.171	0.020	mg/kg	0.200	0.0004	85.4	70-130	1.49	20	
Indeno (1,2,3-cd) pyrene	0.173	0.020	"	0.200	ND	86.6	70-130	13.7	20	
Naphthalene	0.173	0.002	"	0.200	ND	86.5	70-130	0.322	20	
Phenanthrene	0.179	0.020	"	0.200	ND	89.4	70-130	2.01	20	
Pyrene	0.190	0.020	"	0.200	0.0005	94.6	70-130	9.87	20	
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	220		"	200		109	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		109	60-130			

Origins Laboratory, Inc.



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

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A2207 - Saturated Paste Metals

Blank (B4A2207-BLK1)

Prepared: 01/22/2024 Analyzed: 01/23/2024

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

Duplicate (B4A2207-DUP1)

Source: Y401445-02

Prepared: 01/22/2024 Analyzed: 01/23/2024

Calcium PPM	557	10.0	mg/L		553			0.676	50	
SAR	ND	0.0100	SAR		7.79				200	
Magnesium PPM	140	10.0	mg/L		136			2.86	50	
Sodium PPM	814	10.0	"		789			3.12	50	

Batch B4A2310 - DTPA Sorbitol Preparation

Blank (B4A2310-BLK1)

Prepared: 01/23/2024 Analyzed: 01/24/2024

Boron	ND	0.100	mg/L							
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Duplicate (B4A2310-DUP1)

Source: Y401479-02

Prepared: 01/23/2024 Analyzed: 01/24/2024

Boron	0.221	0.102	mg/L		0.220			0.378	50	
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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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A2213 - Saturated Paste pH/EC										
Blank (B4A2213-BLK1)					Prepared: 01/22/2024 Analyzed: 01/23/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4A2213-DUP1)					Source: Y401445-02 Prepared: 01/22/2024 Analyzed: 01/23/2024					
pH	8.10		pH Units		8.09		0.124	25		
Specific Conductance (EC)	6.06	0.00500	mmhos/cm		6.97		13.8	25		

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L729225 -										
DUP (L 84175-DUP)		Source: Y401488-01			Prepared: Analyzed: 01/26/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 84175-MS)		Source: Y401488-01			Prepared: Analyzed: 01/26/2024					
Chromium, Hexavalent	34.4	2.51	mg/Kg	40.2	< 0.244	86	75-125			
LCS (LCS)		Prepared: Analyzed: 01/26/2024								
Chromium, Hexavalent	6.6	0.5	mg/Kg	8		83	75-125			
LRB (LRB)		Prepared: Analyzed: 01/26/2024								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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

Andrew Newberry
Project Number: [none]
Project: Noble - Sater CC #18-17D

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 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



February 05, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Sater CC #18-17D

Project Number - [none]

Attached are your analytical results for Noble - Sater CC #18-17D received by Origins Laboratory, Inc. January 22, 2024. This project is associated with Origins project number Y401513-01.

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

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

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

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

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

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



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

Andrew Newberry
Project Number: [none]
Project: Noble - Sater CC #18-17D

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS-08@5'	Y401513-01	Soil	January 22, 2024 13:30	01/22/2024 16:35
FL-SS-10@4'	Y401513-02	Soil	January 22, 2024 14:00	01/22/2024 16:35

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4401513

Client: Eagle
 Client Project ID: Sater CC 18-17D

Checklist Completed by: EHS
 Date/time completed: 1/22/24

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

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

Cooler Number/Temperature: 114 °C / _____ °C / _____ °C / _____ °C (Describe)

Thermometer ID: 1004

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

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 1/23/24

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

FL-SS-08@5'
1/22/2024 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401513-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B4A2310	01/23/2024	01/24/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	171		25.0	mg/kg	1	B4A2401	01/24/2024	01/25/2024	
Residual Range Organics (C28-C40)	106		100	"	"	"	"	"	

Surrogate: o-Terphenyl	103 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4A2304	01/23/2024	01/23/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	0.148		0.00380	"	"	"	"	"	
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

FL-SS-08@5'
1/22/2024 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401513-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	132 %		70-130			B4A23 04	01/23/2024	01/23/2024	GC
Surrogate: Toluene-d8	106 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	89.2 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.705		0.499	meq/L	10	[CALC]	01/23/2024	01/24/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.692		0.020	mg/kg	10	B4A2321	01/23/2024	01/25/2024	
2-Methylnaphthalene	1.29		0.020	"	"	"	"	"	
Acenaphthene	5.97		0.200	"	"	"	"	"	
Anthracene	11.9		2.00	"	100	"	"	01/25/2024	
Benzo (a) anthracene	12.7		0.500	"	"	"	"	"	
Benzo (a) pyrene	7.74		0.200	"	10	"	"	01/25/2024	
Benzo (b) fluoranthene	8.57		0.200	"	"	"	"	"	
Benzo (k) fluoranthene	3.97		0.200	"	"	"	"	"	
Chrysene	12.2		2.00	"	100	"	"	01/25/2024	
Dibenz (a,h) anthracene	1.16		0.200	"	10	"	"	01/25/2024	
Fluoranthene	45.7		0.200	"	"	"	"	"	
Fluorene	8.30		0.200	"	"	"	"	"	

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

FL-SS-08@5'
1/22/2024 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401513-01 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	3.53		0.200	mg/kg	10	B4A2321	01/23/2024	01/25/2024	
Pyrene	28.6		2.00	"	100	"	"	01/25/2024	

Surrogate: Fluorene-d10	99.8 %		60-130			"	"	01/25/2024	
Surrogate: Anthracene-d10	103 %		60-130			"	"	"	
Surrogate: Pyrene-d10	95.7 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.8 %		60-130			"	"	"	

pH in Soil by 9045D

pH	7.41			pH Units	1	B4A2315	01/23/2024	01/24/2024	
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SAR by 20B Saturated Paste

SAR	0.268		0.0100	SAR	1	B4A2312	01/23/2024	01/24/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.140		0.00500	mmhos/cm	1	B4A2315	01/23/2024	01/24/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.74		0.0897	mg/kg	10	B4A2232	01/22/2024	01/25/2024	
Barium	47.5		8.97	"	"	"	"	"	

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

FL-SS-08@5'
1/22/2024 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401513-01 (Soil)

Table 915 metals by EPA 6020B

Cadmium	ND		0.0897	mg/kg	10	B4A2232	01/22/2024	01/25/2024	
Copper	ND		8.97	"	"	"	"	"	
Lead	4.39		0.897	"	"	"	"	"	
Nickel	4.53		0.897	"	"	"	"	"	
Selenium	ND		0.0897	"	"	"	"	"	
Silver	ND		0.0897	"	"	"	"	"	
Zinc	20.8		8.97	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L729912	01/22/2024	01/30/2024	
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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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

FL-SS-10@4'
1/22/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401513-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0998	mg/L	1	B4A2310	01/23/2024	01/24/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4A2401	01/24/2024	01/25/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	98.0 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4A2304	01/23/2024	01/23/2024	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

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

FL-SS-10@4'
1/22/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401513-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	135 %		70-130			B4A23 04	01/23/2024	01/23/2024	GC
Surrogate: Toluene-d8	106 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	88.5 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.28		0.499	meq/L	10	[CALC]	01/23/2024	01/24/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4A2321	01/23/2024	01/25/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	0.007		0.005	"	"	"	"	"	
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

FL-SS-10@4'
1/22/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401513-02 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B4A2321	01/23/2024	01/25/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.3 %		60-130			"	"	"	
Surrogate: Anthracene-d10	98.0 %		60-130			"	"	"	
Surrogate: Pyrene-d10	99.2 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.1 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.22			pH Units	1	B4A2315	01/23/2024	01/24/2024	
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SAR by 20B Saturated Paste

SAR	0.0958		0.0100	SAR	1	B4A2312	01/23/2024	01/24/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.215		0.00500	mmhos/cm	1	B4A2315	01/23/2024	01/24/2024	
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Table 915 metals by EPA 6020B

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

FL-SS-10@4'
1/22/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401513-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.30		0.0910	mg/kg	10	B4A2232	01/22/2024	01/25/2024	
Barium	65.6		9.10	"	"	"	"	"	
Cadmium	0.229		0.0910	"	"	"	"	"	
Copper	ND		9.10	"	"	"	"	"	
Lead	6.46		0.910	"	"	"	"	"	
Nickel	7.13		0.910	"	"	"	"	"	
Selenium	0.166		0.0910	"	"	"	"	"	
Silver	ND		0.0910	"	"	"	"	"	
Zinc	32.0		9.10	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L729912	01/22/2024	01/30/2024	
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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A2304 - EPA 5030 (soil)

Blank (B4A2304-BLK1)

Prepared: 01/23/2024 Analyzed: 01/23/2024

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	0.15		"	0.125	123		70-130			
Surrogate: Toluene-d8	0.14		"	0.125	108		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	85.8		70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A2304 - EPA 5030 (soil)

LCS (B4A2304-BS1)

Prepared: 01/23/2024 Analyzed: 01/23/2024

1,2,4-Trimethylbenzene	0.0962	0.00200	mg/kg	0.100		96.2	70-130			
1,3,5-Trimethylbenzene	0.0972	0.00200	"	0.100		97.2	70-130			
Benzene	0.0962	0.00200	"	0.100		96.2	70-130			
Ethylbenzene	0.0950	0.00200	"	0.100		95.0	70-130			
Naphthalene	0.102	0.00380	"	0.100		102	70-130			
Toluene	0.0949	0.00200	"	0.100		94.9	70-130			
o-Xylene	0.0977	0.00200	"	0.100		97.7	70-130			
m,p-Xylene	0.185	0.00400	"	0.200		92.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.5	70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A2304 - EPA 5030 (soil)

Matrix Spike (B4A2304-MS1)	Source: Y401511-01			Prepared: 01/23/2024 Analyzed: 01/23/2024						
1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100	ND	103	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130			
Benzene	0.113	0.00200	"	0.100	ND	113	70-130			
Ethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130			
Naphthalene	0.112	0.00380	"	0.100	ND	112	70-130			
Toluene	0.110	0.00200	"	0.100	ND	110	70-130			
o-Xylene	0.111	0.00200	"	0.100	ND	111	70-130			
m,p-Xylene	0.213	0.00400	"	0.200	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		121	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.7	70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A2304 - EPA 5030 (soil)

Matrix Spike Dup (B4A2304-MSD1)	Source: Y401511-01			Prepared: 01/23/2024 Analyzed: 01/23/2024						
1,2,4-Trimethylbenzene	0.0903	0.00200	mg/kg	0.100	ND	90.3	70-130	12.8	20	
1,3,5-Trimethylbenzene	0.0911	0.00200	"	0.100	ND	91.1	70-130	12.8	20	
Benzene	0.0954	0.00200	"	0.100	ND	95.4	70-130	17.2	20	
Ethylbenzene	0.0967	0.00200	"	0.100	ND	96.7	70-130	11.8	20	
Naphthalene	0.108	0.00380	"	0.100	ND	108	70-130	3.68	20	
Toluene	0.0922	0.00200	"	0.100	ND	92.2	70-130	17.5	20	
o-Xylene	0.0987	0.00200	"	0.100	ND	98.7	70-130	12.1	20	
m,p-Xylene	0.188	0.00400	"	0.200	ND	94.1	70-130	12.3	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		124	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.3	70-130			

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Andrew Newberry
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 Project: Noble - Sater CC #18-17D

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 B4A2401 - EPA 3550B										
Blank (B4A2401-BLK1)										
					Prepared: 01/24/2024 Analyzed: 01/25/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		101	50-150			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A2401 - EPA 3550B

LCS (B4A2401-BS1)

Prepared: 01/24/2024 Analyzed: 01/25/2024

Diesel (C10-C28)	1100	50.0	mg/kg	1000		110	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000		100	70-130			
Surrogate: o-Terphenyl	66		"	49.8		132	50-150			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A2401 - EPA 3550B

Matrix Spike (B4A2401-MS1)	Source: Y401513-01			Prepared: 01/24/2024 Analyzed: 01/25/2024						
Diesel (C10-C28)	1030	50.0	mg/kg	1000	171	86.4	70-130			
Residual Range Organics (C28-C40)	909	200	"	1000	106	80.3	70-130			
Surrogate: o-Terphenyl	54		"	49.8		109	50-150			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A2401 - EPA 3550B										
Matrix Spike Dup (B4A2401-MSD1)		Source: Y401513-01			Prepared: 01/24/2024 Analyzed: 01/25/2024					
Diesel (C10-C28)	1090	50.0	mg/kg	1000	171	91.7	70-130	5.00	35	
Residual Range Organics (C28-C40)	951	200	"	1000	106	84.5	70-130	4.49	35	
Surrogate: o-Terphenyl	50		"	49.8		99.6	50-150			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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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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 B4A2232 - EPA 3050B

Blank (B4A2232-BLK1)

Prepared: 01/22/2024 Analyzed: 01/25/2024

Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							
Cadmium	ND	0.0100	"							
Copper	ND	1.00	"							
Lead	ND	0.100	"							
Nickel	ND	0.100	"							
Selenium	ND	0.0100	"							
Silver	ND	0.0100	"							
Zinc	ND	1.00	"							

LCS (B4A2232-BS1)

Prepared: 01/22/2024 Analyzed: 01/25/2024

Arsenic	5.38	0.0100	mg/kg	5.00		108	80-120			
Barium	542	1.00	"	500		108	80-120			
Cadmium	5.10	0.0100	"	5.00		102	80-120			
Copper	53.4	1.00	"	50.0		107	80-120			
Lead	5.19	0.100	"	5.00		104	80-120			
Nickel	5.37	0.100	"	5.00		107	80-120			
Selenium	4.94	0.0100	"	5.00		98.7	80-120			
Silver	5.95	0.0100	"	5.00		119	80-120			
Zinc	57.9	1.00	"	50.0		116	80-120			

Matrix Spike (B4A2232-MS1)

Source: Y401511-04

Prepared: 01/22/2024 Analyzed: 01/25/2024

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A2232 - EPA 3050B

Matrix Spike (B4A2232-MS1)		Source: Y401511-04			Prepared: 01/22/2024 Analyzed: 01/25/2024					
Arsenic	6.36	0.0949	mg/kg	4.74	1.36	105	75-125			
Barium	552	9.49	"	474	32.5	110	75-125			
Cadmium	4.81	0.0949	"	4.74	0.0313	101	75-125			
Copper	49.4	9.49	"	47.4	3.27	97.2	75-125			
Lead	8.05	0.949	"	4.74	2.84	110	75-125			
Nickel	7.87	0.949	"	4.74	2.86	106	75-125			
Selenium	4.39	0.0949	"	4.74	ND	92.6	75-125			
Silver	4.79	0.0949	"	4.74	ND	101	75-125			
Zinc	70.1	9.49	"	47.4	17.1	112	75-125			

Matrix Spike Dup (B4A2232-MSD1)		Source: Y401511-04			Prepared: 01/22/2024 Analyzed: 01/25/2024					
Arsenic	6.01	0.0913	mg/kg	4.57	1.36	102	75-125	5.59	20	
Barium	518	9.13	"	457	32.5	106	75-125	6.27	20	
Cadmium	4.65	0.0913	"	4.57	0.0313	101	75-125	3.34	20	
Copper	47.0	9.13	"	45.7	3.27	95.8	75-125	4.93	20	
Lead	7.71	0.913	"	4.57	2.84	107	75-125	4.38	20	
Nickel	7.34	0.913	"	4.57	2.86	98.1	75-125	6.96	20	
Selenium	4.49	0.0913	"	4.57	0.0367	97.5	75-125	2.16	20	
Silver	4.66	0.0913	"	4.57	ND	102	75-125	2.73	20	
Zinc	65.5	9.13	"	45.7	17.1	106	75-125	6.89	20	

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A2321 - EPA 3580

Blank (B4A2321-BLK1)

Prepared: 01/23/2024 Analyzed: 01/25/2024

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	200		ug/kg	200		98.4	60-130			
Surrogate: Anthracene-d10	200		"	200		98.2	60-130			
Surrogate: Pyrene-d10	200		"	200		98.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

LCS (B4A2321-BS1)

Prepared: 01/23/2024 Analyzed: 01/25/2024

1-Methylnaphthalene	0.188	0.002	mg/kg	0.200		93.8	70-130			
2-Methylnaphthalene	0.187	0.002	"	0.200		93.7	70-130			
Acenaphthene	0.181	0.020	"	0.200		90.7	70-130			
Anthracene	0.180	0.020	"	0.200		90.0	70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A2321 - EPA 3580

LCS (B4A2321-BS1)

Prepared: 01/23/2024 Analyzed: 01/25/2024

Benzo (a) anthracene	0.175	0.005	mg/kg	0.200		87.4	70-130			
Benzo (a) pyrene	0.190	0.020	"	0.200		95.0	70-130			
Benzo (b) fluoranthene	0.194	0.020	"	0.200		96.9	70-130			
Benzo (g,h,i) perylene	0.189	0.020	"	0.200		94.6	70-130			
Benzo (k) fluoranthene	0.206	0.020	"	0.200		103	70-130			
Chrysene	0.183	0.020	"	0.200		91.5	70-130			
Dibenz (a,h) anthracene	0.203	0.020	"	0.200		102	70-130			
Fluoranthene	0.184	0.020	"	0.200		92.2	70-130			
Fluorene	0.178	0.020	"	0.200		88.8	70-130			
Indeno (1,2,3-cd) pyrene	0.199	0.020	"	0.200		99.5	70-130			
Naphthalene	0.185	0.002	"	0.200		92.6	70-130			
Phenanthrene	0.181	0.020	"	0.200		90.7	70-130			
Pyrene	0.188	0.020	"	0.200		94.1	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.3	60-130			
Surrogate: Anthracene-d10	200		"	200		99.8	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

Matrix Spike (B4A2321-MS1)

Source: Y401500-01

Prepared: 01/23/2024 Analyzed: 01/25/2024

1-Methylnaphthalene	0.193	0.002	mg/kg	0.200	0.0009	95.8	70-130			
2-Methylnaphthalene	0.194	0.002	"	0.200	0.001	96.4	70-130			
Acenaphthene	0.192	0.020	"	0.200	0.008	92.2	70-130			
Anthracene	0.204	0.020	"	0.200	ND	102	70-130			
Benzo (a) anthracene	0.188	0.005	"	0.200	0.0004	93.7	70-130			
Benzo (a) pyrene	0.179	0.020	"	0.200	ND	89.7	70-130			
Benzo (b) fluoranthene	0.197	0.020	"	0.200	0.002	97.8	70-130			
Benzo (g,h,i) perylene	0.191	0.020	"	0.200	0.002	94.5	70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A2321 - EPA 3580

Matrix Spike (B4A2321-MS1)	Source: Y401500-01			Prepared: 01/23/2024 Analyzed: 01/25/2024						
Benzo (k) fluoranthene	0.187	0.020	mg/kg	0.200	ND	93.7	70-130			
Chrysene	0.196	0.020	"	0.200	0.013	91.8	70-130			
Dibenz (a,h) anthracene	0.198	0.020	"	0.200	0.0008	98.4	70-130			
Fluoranthene	0.194	0.020	"	0.200	0.003	95.5	70-130			
Fluorene	0.199	0.020	"	0.200	0.011	94.2	70-130			
Indeno (1,2,3-cd) pyrene	0.193	0.020	"	0.200	ND	96.7	70-130			
Naphthalene	0.190	0.002	"	0.200	ND	94.9	70-130			
Phenanthrene	0.185	0.020	"	0.200	0.004	90.9	70-130			
Pyrene	0.187	0.020	"	0.200	0.005	91.1	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	200		"	200		99.7	60-130			
Surrogate: Pyrene-d10	190		"	200		97.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.5	60-130			

Matrix Spike Dup (B4A2321-MSD1)	Source: Y401500-01			Prepared: 01/23/2024 Analyzed: 01/25/2024						
1-Methylnaphthalene	0.190	0.002	mg/kg	0.200	0.0009	94.3	70-130	1.55	20	
2-Methylnaphthalene	0.190	0.002	"	0.200	0.001	94.4	70-130	2.17	20	
Acenaphthene	0.187	0.020	"	0.200	0.008	89.6	70-130	2.72	20	
Anthracene	0.205	0.020	"	0.200	ND	102	70-130	0.520	20	
Benzo (a) anthracene	0.184	0.005	"	0.200	0.0004	91.9	70-130	1.92	20	
Benzo (a) pyrene	0.186	0.020	"	0.200	ND	92.9	70-130	3.43	20	
Benzo (b) fluoranthene	0.197	0.020	"	0.200	0.002	97.7	70-130	0.112	20	
Benzo (g,h,i) perylene	0.185	0.020	"	0.200	0.002	91.7	70-130	2.94	20	
Benzo (k) fluoranthene	0.193	0.020	"	0.200	ND	96.6	70-130	3.05	20	
Chrysene	0.191	0.020	"	0.200	0.013	89.0	70-130	2.88	20	
Dibenz (a,h) anthracene	0.195	0.020	"	0.200	0.0008	97.3	70-130	1.06	20	
Fluoranthene	0.191	0.020	"	0.200	0.003	94.0	70-130	1.48	20	

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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 B4A2321 - EPA 3580

Matrix Spike Dup (B4A2321-MSD1)	Source: Y401500-01			Prepared: 01/23/2024 Analyzed: 01/25/2024						
Fluorene	0.196	0.020	mg/kg	0.200	0.011	92.6	70-130	1.57	20	
Indeno (1,2,3-cd) pyrene	0.180	0.020	"	0.200	ND	89.8	70-130	7.37	20	
Naphthalene	0.186	0.002	"	0.200	ND	92.9	70-130	2.19	20	
Phenanthrene	0.181	0.020	"	0.200	0.004	88.6	70-130	2.59	20	
Pyrene	0.186	0.020	"	0.200	0.005	90.8	70-130	0.345	20	
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		99.3	60-130			
Surrogate: Pyrene-d10	190		"	200		97.2	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A2310 - DTPA Sorbitol Preparation

Blank (B4A2310-BLK1)

Prepared: 01/23/2024 Analyzed: 01/24/2024

Boron ND 0.100 mg/L

Duplicate (B4A2310-DUP1)

Source: Y401479-02

Prepared: 01/23/2024 Analyzed: 01/24/2024

Boron 0.221 0.102 mg/L 0.220 0.378 50

Batch B4A2312 - Saturated Paste Metals

Blank (B4A2312-BLK1)

Prepared: 01/23/2024 Analyzed: 01/24/2024

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B4A2312-DUP1)

Source: Y401500-01

Prepared: 01/23/2024 Analyzed: 01/24/2024

SAR ND 0.0100 SAR 1.27 200

Calcium PPM 41.2 10.0 mg/L 35.4 15.4 50

Magnesium PPM 26.3 10.0 " 22.7 14.5 50

Sodium PPM 42.8 10.0 " 39.4 8.27 50

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 Project: Noble - Sater CC #18-17D

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A2315 - Saturated Paste pH/EC										
Blank (B4A2315-BLK1)					Prepared: 01/23/2024 Analyzed: 01/24/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4A2315-DUP1)					Source: Y401500-01 Prepared: 01/23/2024 Analyzed: 01/24/2024					
pH	8.52		pH Units		8.53			0.117	25	
Specific Conductance (EC)	0.632	0.00500	mmhos/cm		0.495			24.3	25	

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 Project: Noble - Sater CC #18-17D

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L729912 -										
DUP (L 90749-DUP)		Source: 90749			Prepared: Analyzed: 01/30/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 90749-MS)		Source: 90749			Prepared: Analyzed: 01/30/2024					
Chromium, Hexavalent	31.6	2.5	mg/Kg	40	< 0.244	79	75-125			
LCS (LCS)		Prepared: Analyzed: 01/30/2024								
Chromium, Hexavalent	6.3	0.5	mg/Kg	8		79	75-125			
LRB (LRB)		Prepared: Analyzed: 01/30/2024								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Andrew Newberry
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Project: Noble - Sater CC #18-17D

Notes and Definitions

U Sample is Non-Detect.

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager