

Wellhead Closure Checklist

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

Additional attachments (optional):		Pit Closure		Tank Battery Closure		Flowline Closure	04/05/24	Partially Buried Vault Closure
Site Name & COGCC Facility Number: Dillard USX AB #03-14P		Date: 02/13/24						Remediation Project #: 29738
Associated Wells: 05-123-31071		Age of Site: Years						Number of Photos Attached: 6
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.596720 / -104.537650								Estimated Facility Size (acres):
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) Good								
USCS Soil Type: Silty SAND ~15% silt					Estimated Depth to Groundwater: ~20-40'			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) Strong hydrocarbon odor observes								
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	05-123-31071							
Age	Years							
Condition of surface around wellhead	Good							
PID Readings								
Condition of subsurface (staining present)	Good							
PID Readings	7.9	21.1	4.0	8.7	33.2			
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: Wellhead								
Summary								
Was impacted soil identified? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes - less than 10 cubic yards <input type="checkbox"/> Yes - more than 10 cubic yards								
Total number of samples field screened: 5				Total number of samples collected: 5				
Highest PID Reading: 33.2				Total number of samples submitted to lab for analysis: 5				
If more than 10 cubic yards of impacted soil were observed: NA								
Vertical extent:				Estimated spill volume:				
Lateral extent:				Volume of soil removed:				
Is additional investigation required?								
Was groundwater encountered during the investigation? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - not impacted or in contact with impacted soils <input type="checkbox"/> Yes - groundwater impacted and/or in contact with impacted soils								
Measured depth to groundwater:				Was remedial groundwater removal conducted? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Date Groundwater was encountered:				Commencement date of removal:				
Sheen on groundwater? <input type="checkbox"/> Yes <input type="checkbox"/> No				Volume of groundwater removed prior to sampling:				
Free product observed? <input type="checkbox"/> Yes <input type="checkbox"/> 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		Wellhead Closure	02/13/24	Pit Closure		Partially Buried Vault Closure
Site Name & COGCC Facility Number: Dillard USX AB #03-14P		Date: 04/05/24 - 04/09/24					Remediation Project #: 29738	
Associated Wells: 05-123-31071		Age of Site: Years					Number of Photos Attached: 15	
Starting point: (GPS coordinates and descriptions) 40.596720 / -104.537650 (Pt. A at wellhead)								
End point: (GPS coordinates and descriptions) 40.595250 / -104.544208 (Pt. B at separator)								
USCS Soil Type: Silty SAND ~15% silt					Estimated Depth to Groundwater: ~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	~1897'							
Construction Material	Steel							
Were flowlines pulled?	Yes							
Visual Integrity of lines	Good							
Visual impacts if trenched	None							
PID Readings if trenched	0.2 - 1.5							
Sample taken? Location/Sample ID#	FL-SS-01 to FL-SS-15							
Photo Number(s)	See photolog							
Other observations regarding on location flowlines: ~1897' of flowline pulled following assessment, Pt. A and Pt. B submitted for laboratory analysis.								
Summary								
Was impacted soil identified? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - less than 10 cubic yards <input type="checkbox"/> Yes - more than 10 cubic yards								
Total number of samples field screened: 15					Total number of samples collected: 15			
Highest PID Reading: 1.5					Total number of samples submitted to lab for analysis: 2			
If more than 10 cubic yards of impacted soil were observed:								
Vertical extent:					Estimated spill volume:			
Lateral extent:					Volume of soil removed:			
Is additional investigation required?								
Was groundwater encountered during the investigation? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - not impacted or in contact with impacted soils <input type="checkbox"/> Yes - groundwater impacted and/or in contact with impacted soils								
Measured depth to groundwater:					Was remedial groundwater removal conducted? Yes <input type="checkbox"/> No <input type="checkbox"/>			
Date Groundwater was encountered:					Commencement date of removal:			
Sheen on groundwater? <input type="checkbox"/> Yes <input type="checkbox"/> No					Volume of groundwater removed prior to sampling:			
Free product observed? <input type="checkbox"/> Yes <input type="checkbox"/> 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

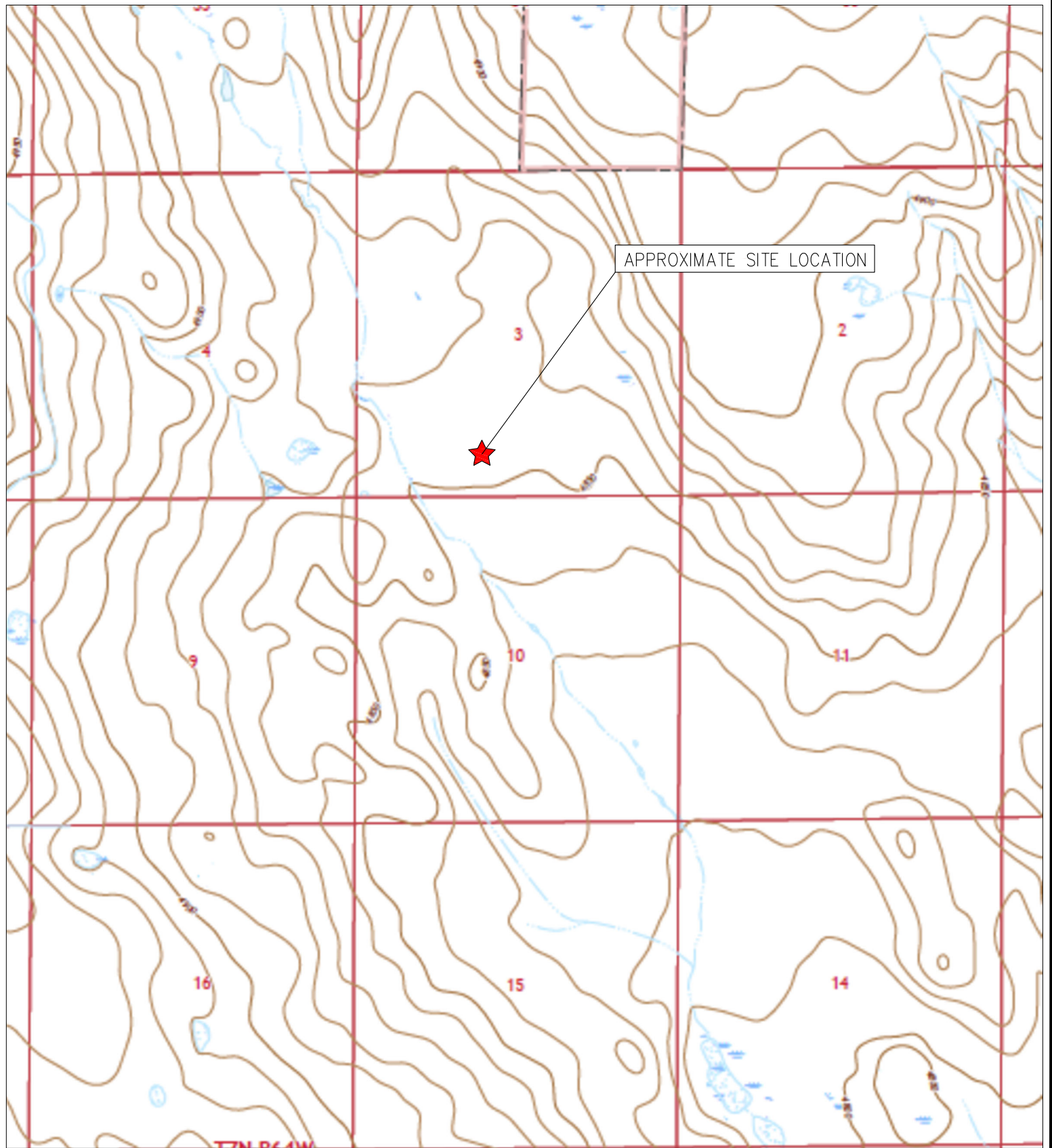
Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Wellhead Soil Analytical Map

Figure 4: Flowline Soil Analytical Map

Figure 5: Flowline Metals in Soil Map



TOPOGRAPHIC SITE LOCATION MAP
DILLARD USX AB #03-14P
CLOSURE ASSESSMENT
40.596720 / -104.537650
SE¼ SW¼ SEC.3 T7N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-31071
REMEDIATION # 29738

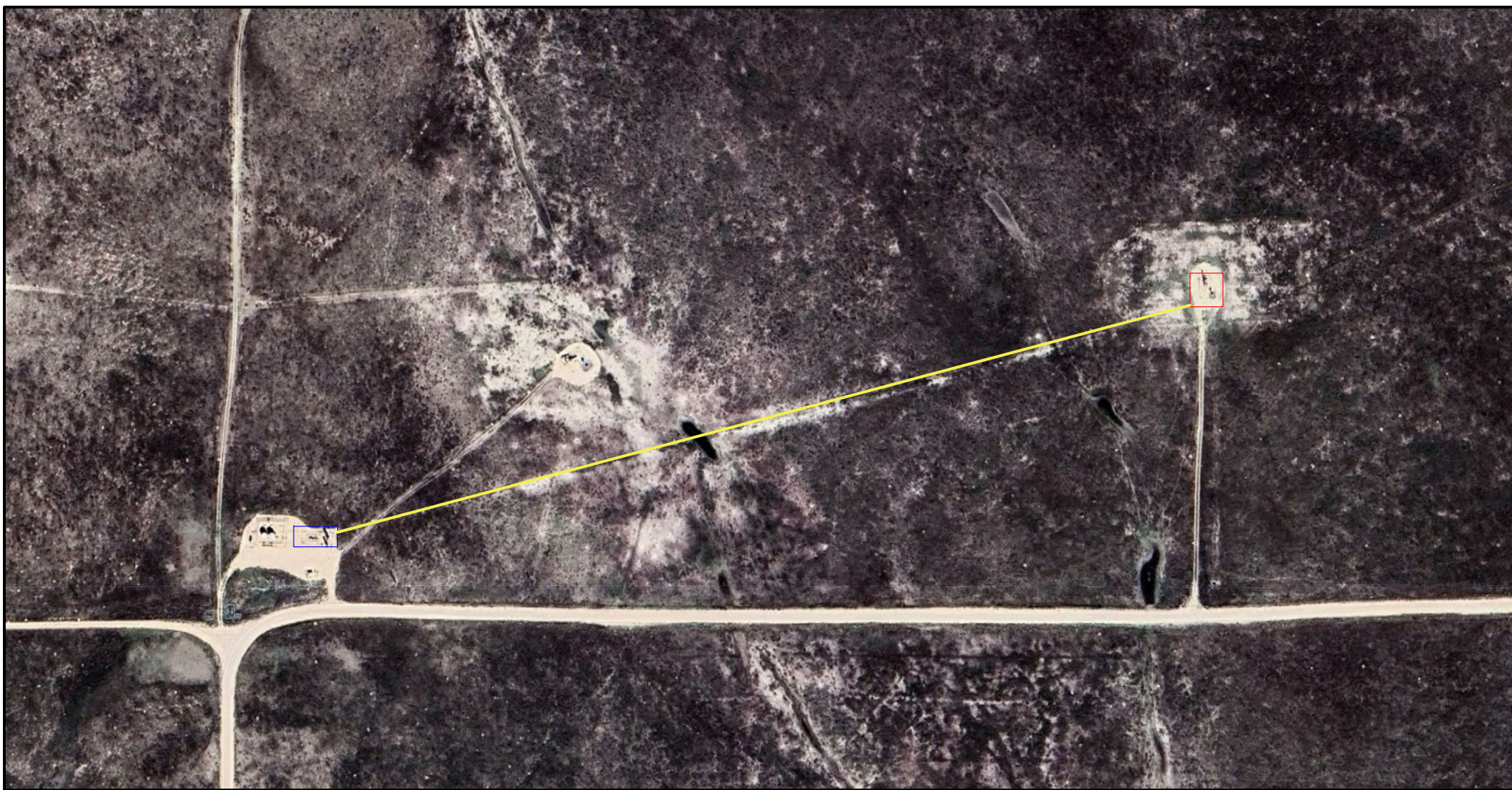


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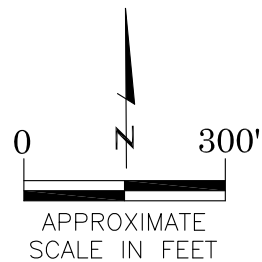
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP,
GALETON, CO QUADRANGLE 2022

FIGURE NO. 1



LEGEND

- FORMER DILLARD USX AB #03-14P WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR (DECOMMISSIONED)
- APPROXIMATE FLOWLINE LOCATION (REMOVED)



AERIAL SITE LOCATION MAP
 DILLARD USX AB #03-14P
 CLOSURE ASSESSMENT
 40.596720 / -104.537650
 SE¼ SW¼ SEC.3 T7N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-31071
 REMEDIATION # 29738

FIGURE NO.
2

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SL



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LEGEND

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

PARAMETERS

SAMPLE LOCATION
DATE
DEPTH (FEET)
B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (mg/kg)
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)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

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

(BRL) = ALL VALUES BELOW REGULATORY LIMITS
BRL = BELOW REGULATORY LIMITS

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

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

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

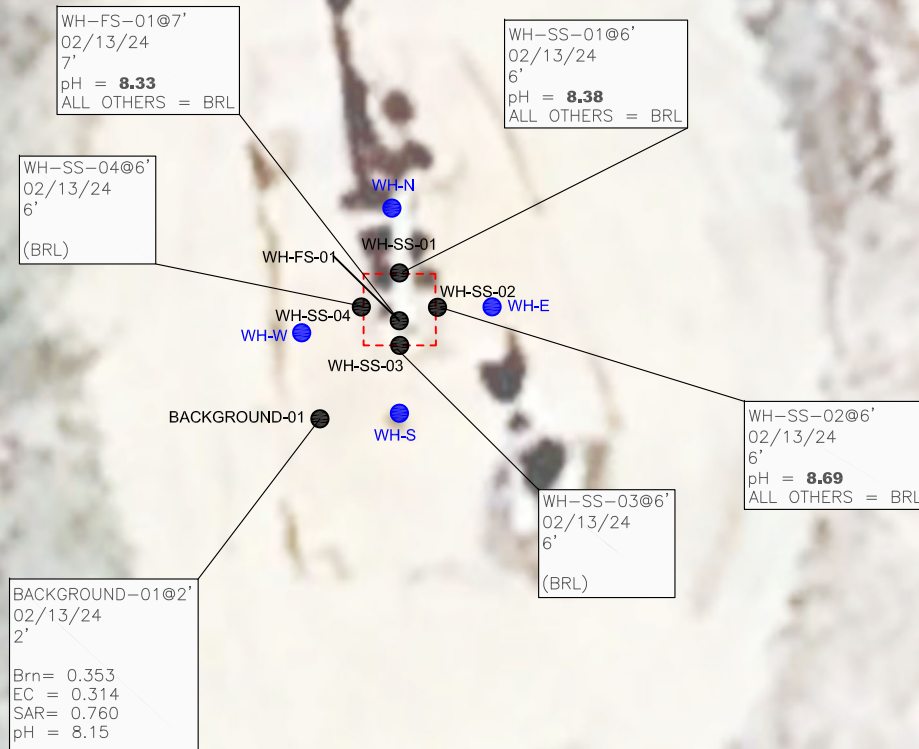
WELLHEAD SOIL ANALYTICAL MAP
DILLARD USX AB #03-14P
CLOSURE ASSESSMENT
40.596720 / -104.537650
SE¼ SW¼ SEC.3 T7N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-31071
REMEDIAION # 29738

FIGURE NO.
3

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

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)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

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

(BRL) = ALL VALUES BELOW REGULATORY LIMITS

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

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

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

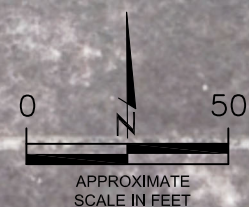
FLOWLINE SOIL ANALYTICAL MAP
DILLARD USX AB #03-14P
CLOSURE ASSESSMENT
40.596720 / -104.537650
SE¼ SW¼ SEC.3 T7N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-31071
REMEDIAL # 29738

FIGURE NO.
4

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APPROXIMATE
SCALE IN FEET

LEGEND

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

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.

*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.

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

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

FLOWLINE METALS IN SOIL MAP
DILLARD USX AB #03-14P
CLOSURE ASSESSMENT
40.596720 / -104.537650
SE¼ SW¼ SEC.3 T7N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-31071
REMEDATION # 29738

FIGURE NO.
5

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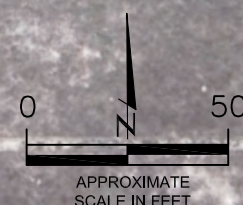


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BACKGROUND-02@3'
04/05/24
3'
Arsenic = 4.21
Barium = 467*
Cadmium = 0.281
Chromium (VI) = 0.121**
Copper = 14.2
Lead = 15.5
Nickel = 12.1
Selenium = 0.690*
Silver = <0.0906
Zinc = 57.3

FL-SS-02@5'
04/05/24
5'
Arsenic = 3.52
Barium = 99.9*
Cadmium = 0.323
Chromium (VI) = <0.124**
Copper = 13.1
Lead = 11.6
Nickel = 10.3
Selenium = 0.491*
Silver = 0.108
Zinc = 51.7

FL-SS-07@4'
04/05/24
4'
Arsenic = 4.20
Barium = 93.7*
Cadmium = 0.129
Chromium (VI) = <0.114**
Copper = <8.93
Lead = 7.32
Nickel = 7.20
Selenium = 0.244
Silver = <0.0893
Zinc = 33.5





TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
 PHOTOIONIZATION DETECTOR READING SUMMARY
 DILLARD USX AB #03-14P
 CLOSURE ASSESSMENT
 40.596720 / -104.537650
 SE¼ SW¼ SEC.3 T7N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-31071
 REMEDIATION # 29738

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-FS-01 @ 7' (40.596655 / -104.537653)	02/13/24	7	33.2	Y
WH-SS-01 @ 6' (40.596671 / -104.537650)	02/13/24	6	7.9	Y
WH-SS-02 @ 6' (40.596659 / -104.537628)	02/13/24	6	21.1	Y
WH-SS-03 @ 6' (40.596643 / -104.537649)	02/13/24	6	4.0	Y
WH-SS-04 @ 6' (40.596653 / -104.537661)	02/13/24	6	8.7	Y
WH-N @ 0.5' (40.596690 / -104.537658)	02/13/24	0.5	0.9	N
WH-E @ 0.5' (40.596665 / -104.537619)	02/13/24	0.5	0.5	N
WH-S @ 0.5' (40.596630 / -104.537647)	02/13/24	0.5	1.0	N
WH-W @ 0.5' (40.596653 / -104.537681)	02/13/24	0.5	0.8	N
Background-01 @ 2' (40.596627 / -104.537681)	02/13/24	2	0.5	Y
FL-SS-01 @ 4' (40.596540 / -104.537839)	04/05/24	4	0.4	N
FL-SS-02 @ 5' (40.596431 / -104.538179)	04/05/24	5	0.5	Y
FL-SS-03 @ 5' (40.596330 / -104.538600)	04/05/24	5	0.4	N
FL-SS-04 @ 4' (40.596251 / -104.539024)	04/05/24	4	0.9	N
FL-SS-05 @ 5' (40.596152 / -104.539480)	04/05/24	5	0.5	N
FL-SS-06 @ 5' (40.596059 / -104.539981)	04/05/24	5	1.2	N
FL-SS-07 @ 4' (40.595260 / -104.544210)	04/05/24	4	1.1	Y
FL-SS-08 @ 5' (40.595942 / -104.540520)	04/05/24	5	0.4	N
FL-SS-09 @ 4' (40.595826 / -104.541130)	04/05/24	4	1.5	N
Background-02 @ 3' (40.596460 / -104.539032)	04/05/24	3	0.8	Y
FL-SS-10 @ 4' (40.595721 / -104.541834)	04/09/24	4	1.0	N
FL-SS-11 @ 4' (40.595646 / -104.542214)	04/09/24	4	0.5	N
FL-SS-12 @ 4' (40.595536 / -104.542866)	04/09/24	4	1.1	N
FL-SS-13 @ 5' (40.595451 / -104.543193)	04/09/24	5	0.9	N
FL-SS-14 @ 4' (40.595381 / -104.543564)	04/09/24	4	1.1	N
FL-SS-15 @ 4' (40.595269 / -104.543953)	04/09/24	4	1.4	N
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
DILLARD USX AB #03-14P
CLOSURE ASSESSMENT
40.596720 / -104.537650
SE¼ SW¼ SEC.3 T7N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-31071
REMEDATION # 29738

Sample Location				WH-FS-01 @ 7'	WH-SS-01 @ 6'	WH-SS-02 @ 6'	WH-SS-03 @ 6'	WH-SS-04 @ 6'
(Latitude / Longitude)				(40.596655 / -104.537653)	(40.596671 / -104.537650)	(40.596659 / -104.537628)	(40.596643 / -104.537649)	(40.596653 / -104.537661)
Sample Date				2/13/2024	2/13/2024	2/13/2024	2/13/2024	2/13/2024
Sample Depth				7	6	6	6	6
PID Reading (ppm-v)				32.2	7.9	21.1	4	8.7
Regulatory Limits								
Chemical of Concern	Units	ECMC Table 915-1 RSSLs	ECMC Table 915-1 GSSLs	Local Clean-Up Level				
VOCs								
Benzene	mg/kg	1.2	0.0026	--	<0.00200	<0.00200	<0.00200	<0.00200
Toluene	mg/kg	490	0.69	--	<0.00200	<0.00200	<0.00200	<0.00200
Ethylbenzene	mg/kg	5.8	0.78	--	<0.00200	<0.00200	<0.00200	<0.00200
Total Xylenes	mg/kg	58	9.9	--	<0.00200	<0.00200	<0.00200	<0.00200
Naphthalene	mg/kg	2	0.0038	--	<0.00380	<0.00380	<0.00380	<0.00380
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	<0.00200	<0.00200	<0.00200	<0.00200
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	<0.00200	<0.00200	<0.00200	<0.00200
TOTAL PETROLEUM HYDROCARBONS								
TPH-GRO	mg/kg	500	--	--	<0.200	<0.200	0.678	<0.200
TPH-DRO	mg/kg	500	--	--	<25.0	<25.0	<25.0	29.0
TPH-RRO	mg/kg	500	--	--	<100	<100	<100	<100
POLYCYCLIC AROMATIC HYDROCARBONS								
1-Methyl-naphthalene	mg/kg	18	0.006	--	<0.002	<0.002	0.005	0.004
2-Methyl-naphthalene	mg/kg	24	0.019	--	<0.002	<0.002	0.005	0.004
Acenaphthene	mg/kg	360	0.55	--	<0.020	<0.020	<0.020	<0.020
Anthracene	mg/kg	1800	5.8	--	<0.020	<0.020	<0.020	<0.020
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	<0.005	<0.005	<0.005	<0.005
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	<0.020	<0.020	<0.020	<0.020
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	<0.020	<0.020	<0.020	<0.020
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	<0.020	<0.020	<0.020	<0.020
Chrysene	mg/kg	110	9	--	<0.020	<0.020	<0.020	<0.020
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	<0.020	<0.020	<0.020	<0.020
Fluoranthene	mg/kg	240	8.9	--	<0.020	<0.020	<0.020	<0.020
Fluorene	mg/kg	240	0.54	--	<0.020	<0.020	<0.020	<0.020
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	<0.020	<0.020	<0.020	<0.020
Pyrene	mg/kg	180	1.3	--	<0.020	<0.020	<0.020	<0.020
SOIL SUITABILITY (Inorganics)								
Boron	mg/L	2	--	--	0.715	1.03	0.703	0.627
pH	standard unit	6-8.3	--	--	8.33	8.38	8.69	8.29
Sodium Adsorption Ratio (SAR)	--	<6	--	--	1.19	2.61	3.63	1.94
Specific Conductance (EC)	mmhos/cm	<4	--	--	0.306	0.447	0.583	0.386
METALS								
Arsenic	mg/kg	0.68	0.29	5.27	NA	NA	NA	NA
Barium	mg/kg	15000	82	584	NA	NA	NA	NA
Cadmium	mg/kg	71	0.38	--	NA	NA	NA	NA
Copper	mg/kg	3100	46	--	NA	NA	NA	NA
Lead	mg/kg	400	14	19.4	NA	NA	NA	NA
Nickel	mg/kg	1500	26	--	NA	NA	NA	NA
Selenium	mg/kg	390	0.26	--	NA	NA	NA	NA
Silver	mg/kg	390	0.8	--	NA	NA	NA	NA
Zinc	mg/kg	23000	370	--	NA	NA	NA	NA
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	NA	NA	NA	NA
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 SAR = Sodium Adsorption Ratio Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit Values presented in 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. Elevated metals are naturally occurring in Colorado. Local Clean-up Levels are 1.25*Background, where applicable.								

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
DILLARD USX AB #03-14P
CLOSURE ASSESSMENT
40.596720 / -104.537650
SE¼ SW¼ SEC.3 T7N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-31071
REMEDATION # 29738

Sample Location		Background-01 @ 2'			FL-SS-02 @ 5'		FL-SS-07 @ 4'		Background-02 @ 3'		
(Latitude / Longitude)		(40.596627 / -104.537681)			(40.596431 / -104.538179)		(40.595260 / -104.544210)		(40.596460 / -104.539032)		
Sample Date		2/13/2024			4/5/2024		4/5/2024		4/5/2024		
Sample Depth		2			5		4		3		
PID Reading (ppm-v)		0.5			0.5		1.1		0.8		
Regulatory Limits											
Chemical of Concern	Units	ECMC Table 915-1 RSSLs	ECMC Table 915-1 GSSLs	Local Clean-Up Level							
VOCS											
Benzene	mg/kg	1.2	0.0026	--	NA	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Toluene	mg/kg	490	0.69	--	NA	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Ethylbenzene	mg/kg	5.8	0.78	--	NA	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Total Xylenes	mg/kg	58	9.9	--	NA	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Naphthalene	mg/kg	2	0.0038	--	NA	<0.00380	<0.00380	<0.00380	<0.00380	<0.00380	<0.00380
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	NA	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	NA	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
TOTAL PETROLEUM HYDROCARBONS											
TPH-GRO	mg/kg	500	--	--	NA	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200
TPH-DRO	mg/kg	500	--	--	NA	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
TPH-RRO	mg/kg	500	--	--	NA	<100	<100	<100	<100	<100	<100
POLYCYCLIC AROMATIC HYDROCARBONS											
1-Methyl-naphthalene	mg/kg	18	0.006	--	NA	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2-Methyl-naphthalene	mg/kg	24	0.019	--	NA	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Acenaphthene	mg/kg	360	0.55	--	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Anthracene	mg/kg	1800	5.8	--	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Chrysene	mg/kg	110	9	--	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Fluoranthene	mg/kg	240	8.9	--	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Fluorene	mg/kg	240	0.54	--	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Pyrene	mg/kg	180	1.3	--	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SOIL SUITABILITY (Inorganics)											
Boron	mg/L	2	--	--	0.353	0.887	0.237	0.504	0.504	0.504	0.504
pH	standard unit	6-8.3	--	--	8.15	8.08	8.10	7.82	7.82	7.82	7.82
Sodium Adsorption Ratio (SAR)	--	<6	--	--	0.760	1.64	0.282	1.57	1.57	1.57	1.57
Specific Conductance (EC)	mmhos/cm	<4	--	--	0.314	0.676	0.301	1.41	1.41	1.41	1.41
METALS											
Arsenic	mg/kg	0.68	0.29	5.27	NA	3.52	4.20	4.21	4.21	4.21	4.21
Barium	mg/kg	15000	82	584	NA	99.9*	93.7*	467*	467*	467*	467*
Cadmium	mg/kg	71	0.38	--	NA	0.323	0.129	0.281	0.281	0.281	0.281
Copper	mg/kg	3100	46	--	NA	13.1	<8.93	14.2	14.2	14.2	14.2
Lead	mg/kg	400	14	19.4	NA	11.6	7.32	15.5	15.5	15.5	15.5
Nickel	mg/kg	1500	26	--	NA	10.3	7.20	12.1	12.1	12.1	12.1
Selenium	mg/kg	390	0.26	0.863	NA	0.491*	0.244	0.690*	0.690*	0.690*	0.690*
Silver	mg/kg	390	0.8	--	NA	0.108	<0.0893	<0.0906	<0.0906	<0.0906	<0.0906
Zinc	mg/kg	23000	370	--	NA	51.7	33.5	57.3	57.3	57.3	57.3
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	NA	<0.124**	<0.114**	0.121**	0.121**	0.121**	0.121**
ECMC = Energy & Carbon Management Commission NA - Not Analyzed VOCs - Volatile Organic Compounds											
mg/kg = milligrams per kilogram RSSLs = Residential Soil Screening Levels											
mmhos/cm = millimhos per centimeter GSSLs = Protection of Groundwater Soil Screening Levels											
PID = Photoionization Detector TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics											
ppm-v = parts per million by volume TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics											
mg/L = milligrams per liter TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics											
SAR = Sodium Adsorption Ratio											
Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit											
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.											
Elevated metals are naturally occurring in Colorado. Local Clean-up Levels are 1.25*Background, where applicable.											



ATTACHMENT A

Photo Log

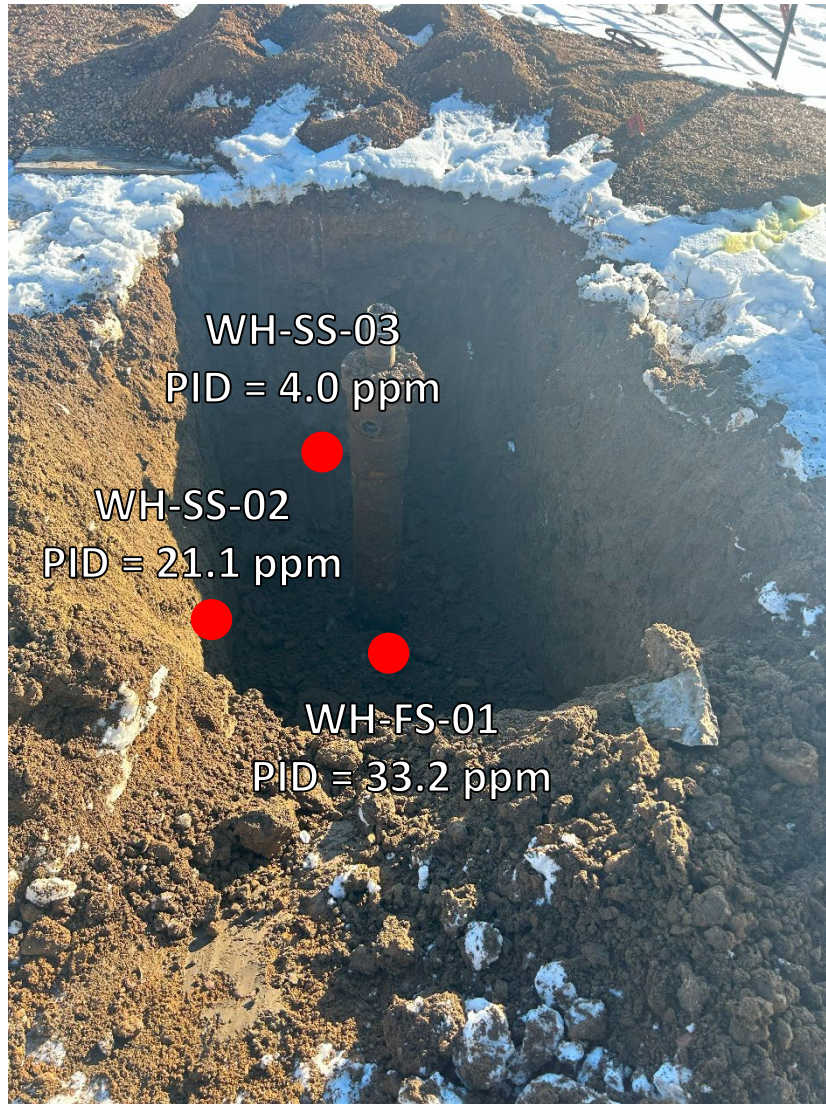
Dillard USX AB #03-14P
API # 05-123-31071
Remediation # 29738

Closure Assessment

February-April 2024



Wellhead Excavation – 02/13/24



Looking south

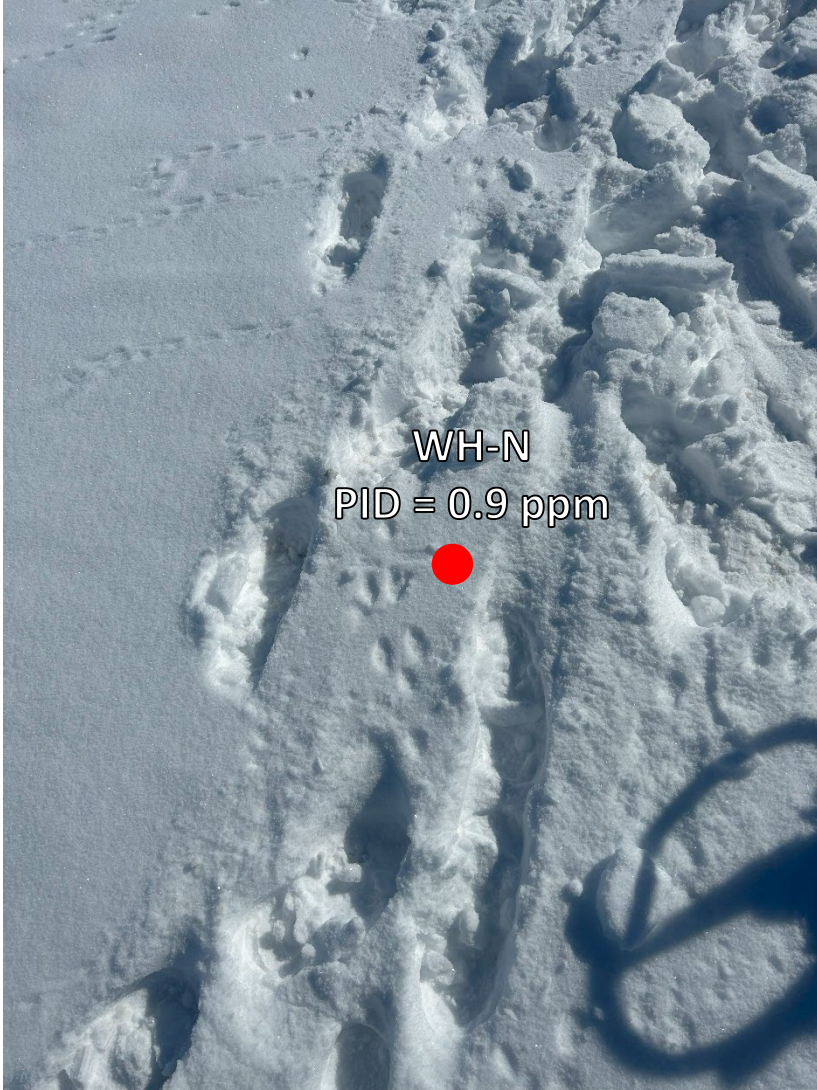
No petroleum hydrocarbon staining or odor observed



Looking west

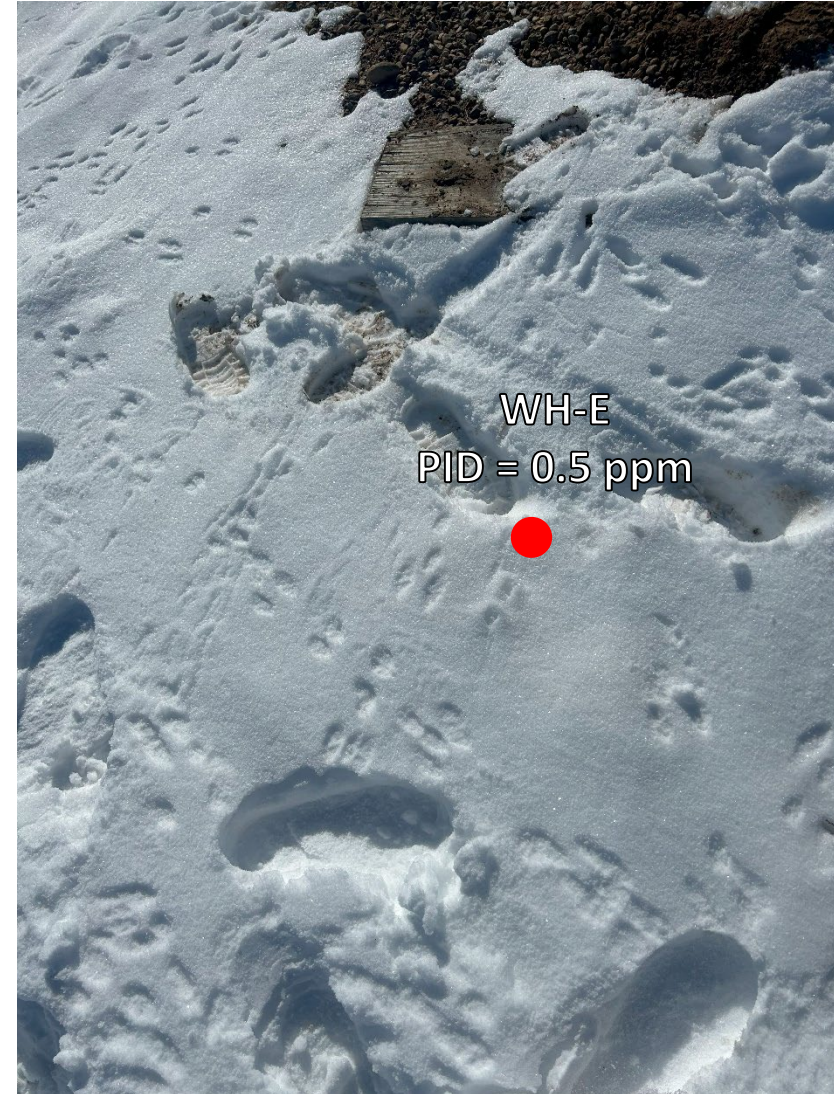
No petroleum hydrocarbon staining or odor observed

Wellhead Surface – 02/13/24



Looking north

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



Looking east

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

Wellhead Surface – 02/13/24



Looking south

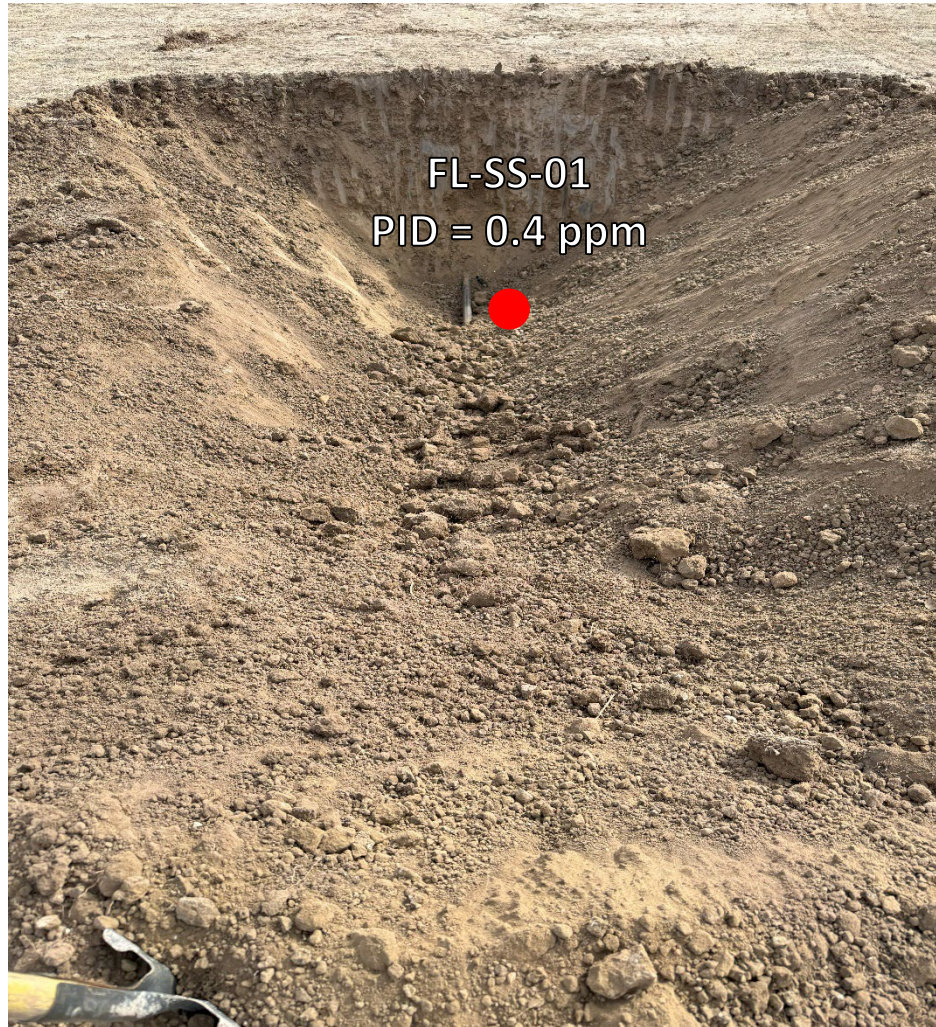
Site in good condition – no petroleum hydrocarbon staining or odor
Observed on surface around wellhead



Looking west

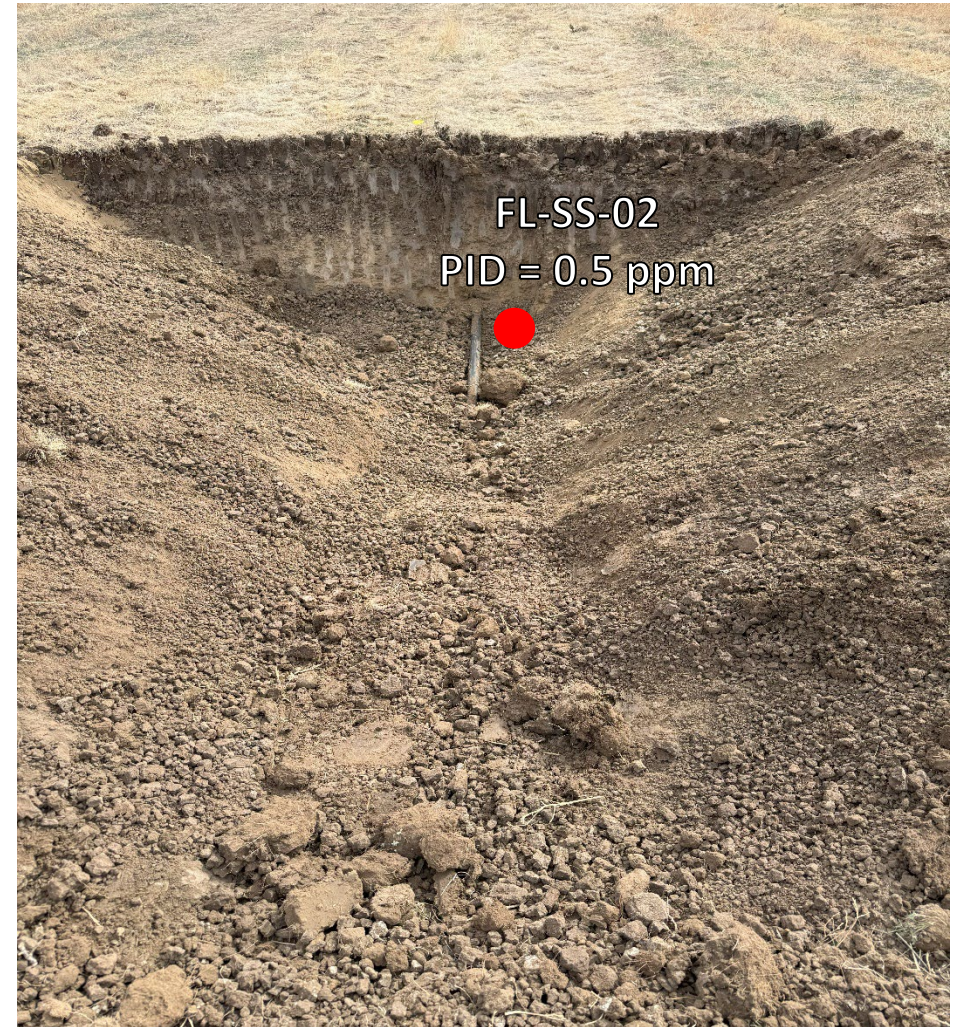
Site in good condition – no petroleum hydrocarbon staining or odor
Observed on surface around wellhead

Flowline Removal/Assessment – 04/05/24



Looking east at bellhole/cut point for removal

No petroleum hydrocarbon staining or odor observed



Looking east at flowline directional change

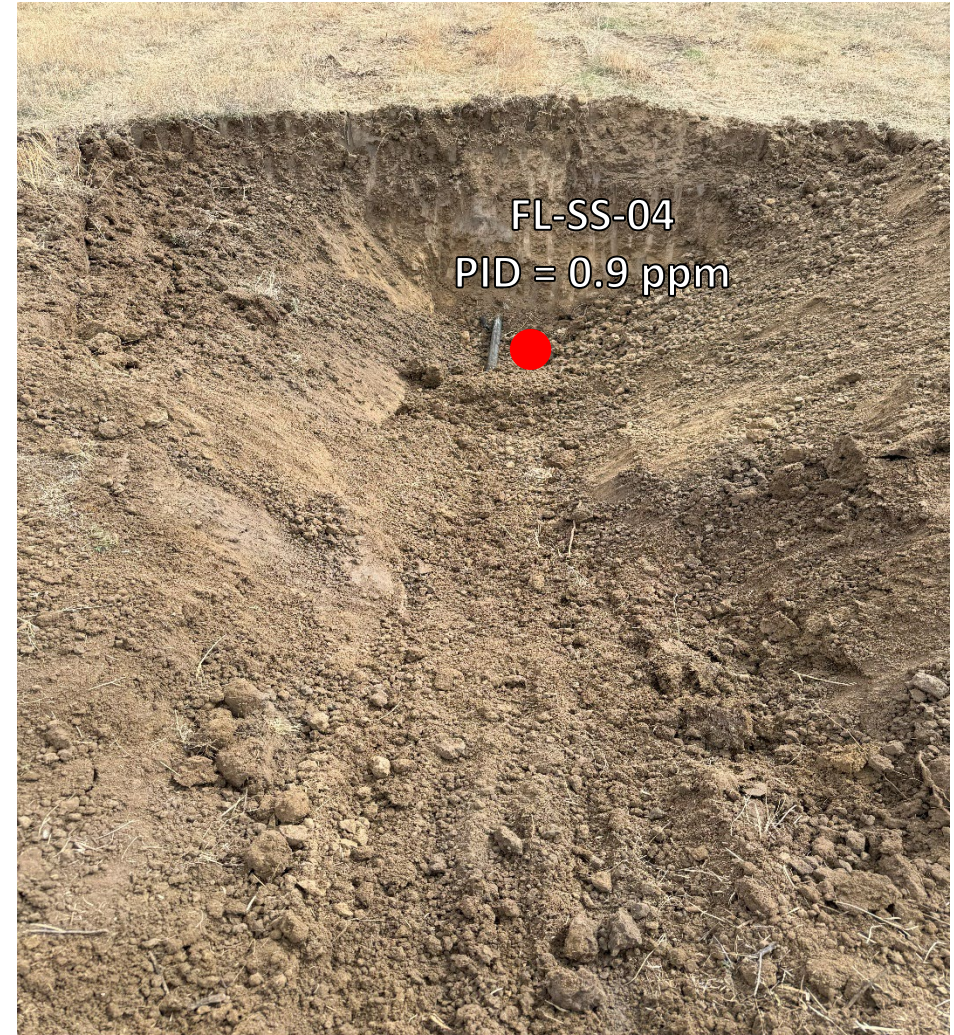
No petroleum hydrocarbon staining or odor observed

Flowline Removal/Assessment – 04/05/24



Looking east at bellhole/cut point for removal

No petroleum hydrocarbon staining or odor observed



Looking east at bellhole/cut point for removal

No petroleum hydrocarbon staining or odor observed

Flowline Removal/Assessment – 04/05/24



Looking east at bellhole/cut point for removal

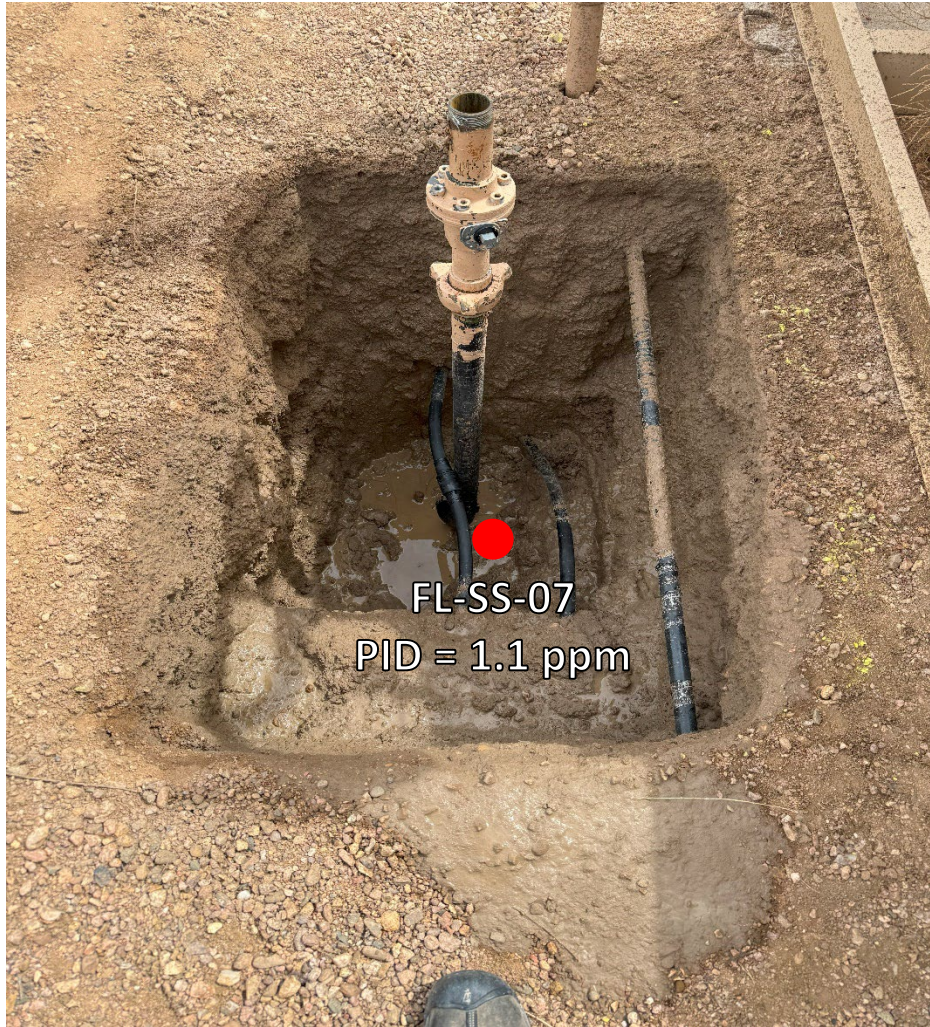
No petroleum hydrocarbon staining or odor observed



Looking east at bellhole/cut point for removal

No petroleum hydrocarbon staining or odor observed

Flowline Removal/Assessment – 04/05/24



FL-SS-07
PID = 1.1 ppm

Looking east at flowline Pt B/terminus at separator

No petroleum hydrocarbon staining or odor observed



FL-SS-08
PID = 0.4 ppm

Looking east at bellhole/cut point for removal

No petroleum hydrocarbon staining or odor observed

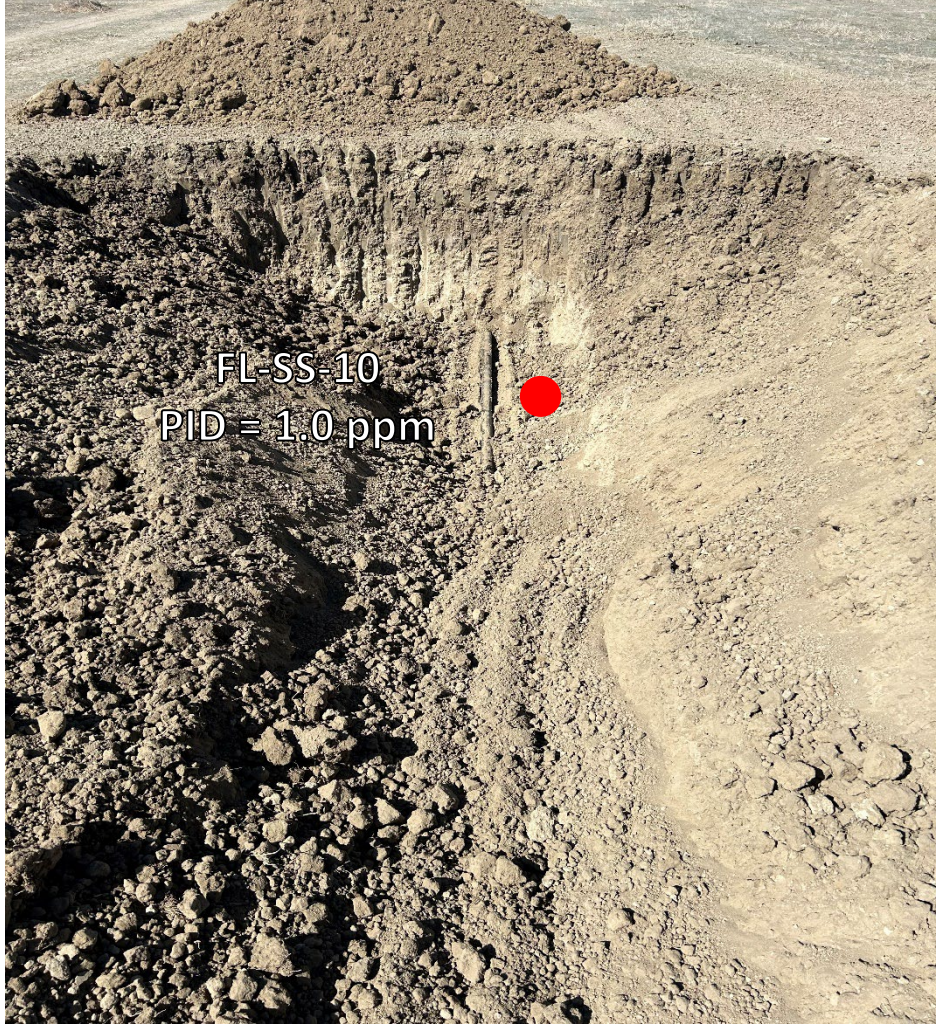
Flowline Removal/Assessment – 04/05/24



Looking east at bellhole/cut point for removal

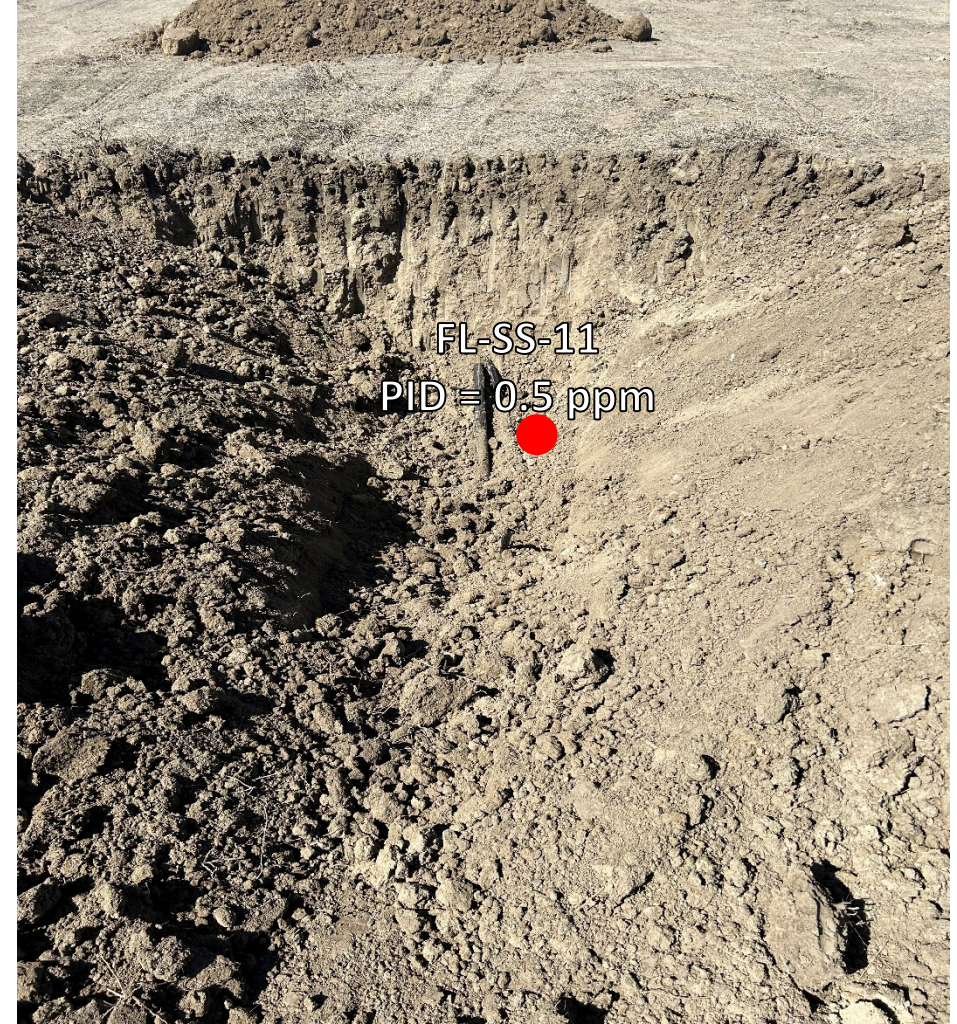
No petroleum hydrocarbon staining or odor observed

Flowline Removal/Assessment – 04/09/24



Looking west at bellhole/cut point for removal

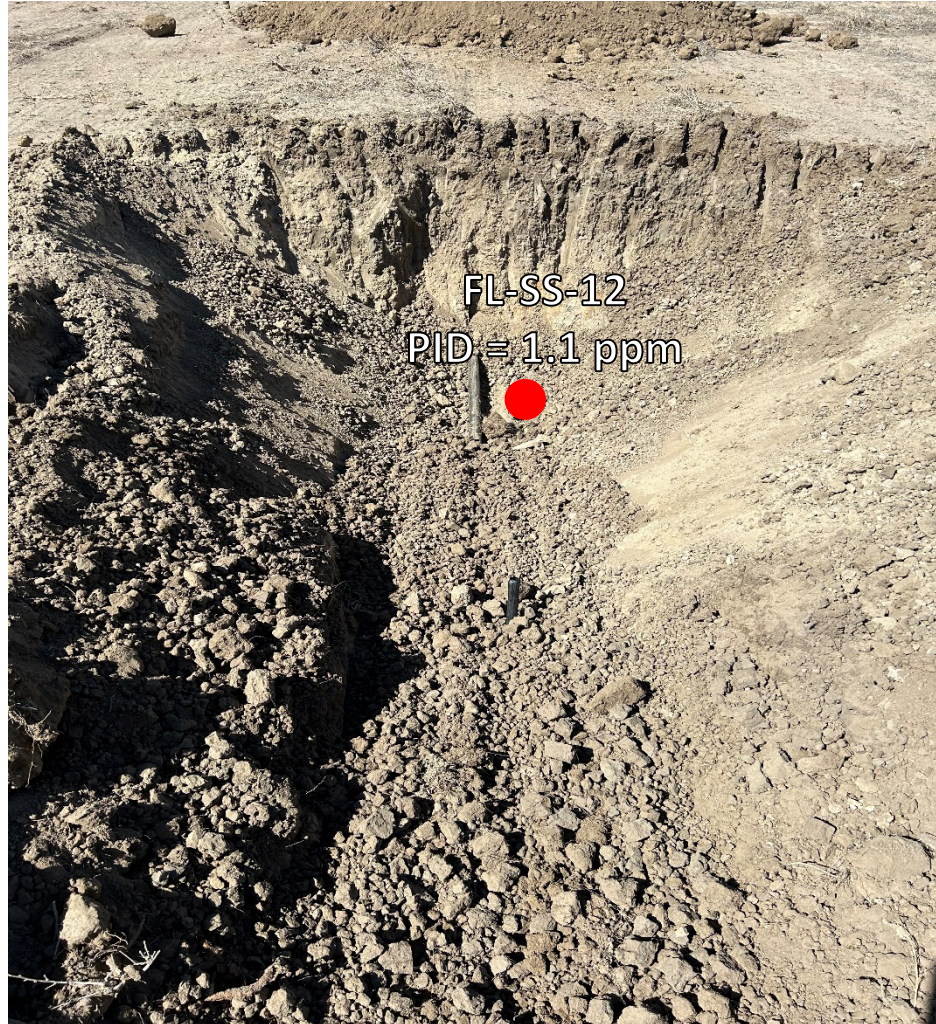
No petroleum hydrocarbon staining or odor observed



Looking west at bellhole/cut point for removal

No petroleum hydrocarbon staining or odor observed

Flowline Removal/Assessment – 04/09/24



Looking west at bellhole/cut point for removal

No petroleum hydrocarbon staining or odor observed



Looking west at bellhole/cut point for removal

No petroleum hydrocarbon staining or odor observed

Flowline Removal/Assessment – 04/09/24



Looking west at bellhole/cut point for removal

No petroleum hydrocarbon staining or odor observed



Looking west at bellhole/cut point for removal

No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Reports



February 21, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Dillard USX AB #03-14P

Project Number - [none]

Attached are your analytical results for Noble - Dillard USX AB #03-14P received by Origins Laboratory, Inc. February 14, 2024. This project is associated with Origins project number Y402324-01.

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 - Dillard USX AB #03-14P

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@7'	Y402324-01	Soil	February 13, 2024 15:43	02/14/2024 13:11
Background-01@2'	Y402324-02	Soil	February 13, 2024 15:45	02/14/2024 13:11
WH-SS-01@6'	Y402324-03	Soil	February 13, 2024 15:35	02/14/2024 13:11
WH-SS-02@6'	Y402324-04	Soil	February 13, 2024 15:37	02/14/2024 13:11
WH-SS-03@6'	Y402324-05	Soil	February 13, 2024 15:39	02/14/2024 13:11
WH-SS-04@6'	Y402324-06	Soil	February 13, 2024 15:41	02/14/2024 13:11

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 - Dillard USX AB #03-14P

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y402324

Client: Eagle

Client Project ID: Dillard USX AB 0314P

Checklist Completed by: EWS

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

Date/time completed: 2/14/24

Airbill #: N/A

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

Cooler Number/Temperature: 1 12.5 °C °C °C (Describe) °C

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"/>	<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 2/15/24

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 - Dillard USX AB #03-14P

WH-FS-01@7'
2/13/2024 3:43:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402324-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.715	0.100	mg/L	1	B4B1511	ACC	02/15/2024	02/16/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B1434	ADM	02/14/2024	02/19/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	82.4 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4B1503	ZZZ	02/15/2024	02/15/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"
Surrogate: Toluene-d8	99.3 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	98.7 %	70-130			"	"	"

Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: [none]
Project: Noble - Dillard USX AB #03-14P

WH-FS-01@7'
2/13/2024 3:43:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402324-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.24	0.499	meq/L	10	[CALC]	ACC	02/17/2024	02/19/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	1.20	0.435	"	"	"	ACC	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4B1439	Windo	02/15/2024	02/16/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	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 - Dillard USX AB #03-14P

WH-FS-01@7'

2/13/2024 3:43:00PM

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

Origins Laboratory, Inc.
Y402324-01 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	98.6 %	60-130			B4B14 39		02/15/2024	02/16/2024	
Surrogate: Anthracene-d10	98.4 %	60-130			"		"	"	
Surrogate: Pyrene-d10	97.9 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	96.9 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.33		pH Units	1	B4B1707	EAL	02/17/2024	02/19/2024	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	1.19	0.0100	SAR	1	B4B1703	ACC	02/17/2024	02/19/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.306	0.00500	mmhos/cm	1	B4B1707	EAL	02/17/2024	02/19/2024	
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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 - Dillard USX AB #03-14P

Background-01@2'
2/13/2024 3:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402324-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.353	0.100	mg/L	1	B4B1511	ACC	02/15/2024	02/16/2024
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Metals by Saturated Paste by EPA 6010

Calcium	2.63	0.499	meq/L	10	[CALC]	ACC	02/17/2024	02/19/2024
Magnesium	1.10	0.823	"	"	"	ACC	"	"
Sodium	1.04	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.15		pH Units	1	B4B1707	EAL	02/17/2024	02/19/2024
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SAR by 20B Saturated Paste

SAR	0.760	0.0100	SAR	1	B4B1703	ACC	02/17/2024	02/19/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.314	0.00500	mmhos/cm	1	B4B1707	EAL	02/17/2024	02/19/2024
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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 - Dillard USX AB #03-14P

WH-SS-01@6'
2/13/2024 3:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402324-03 (Soil)

Boron (DTPA Sorbitol)

Boron	1.03	0.0993	mg/L	1	B4B1511	ACC	02/15/2024	02/16/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B1434	ADM	02/14/2024	02/19/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	82.1 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4B1503	ZZZ	02/15/2024	02/15/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130			"	"	"
Surrogate: Toluene-d8	100 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	99.5 %	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 - Dillard USX AB #03-14P

WH-SS-01@6'
2/13/2024 3:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402324-03 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.21	0.499	meq/L	10	[CALC]	ACC	02/17/2024	02/19/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	2.54	0.435	"	"	"	ACC	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4B1439	Windo	02/15/2024	02/16/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	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 - Dillard USX AB #03-14P

WH-SS-01@6'
2/13/2024 3:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402324-03 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	99.3 %	60-130			B4B14 39		02/15/2024	02/16/2024	
Surrogate: Anthracene-d10	96.5 %	60-130			"		"	"	
Surrogate: Pyrene-d10	96.7 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	96.9 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.38		pH Units	1	B4B1707	EAL	02/17/2024	02/19/2024	
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SAR by 20B Saturated Paste

SAR	2.61	0.0100	SAR	1	B4B1703	ACC	02/17/2024	02/19/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.447	0.00500	mmhos/cm	1	B4B1707	EAL	02/17/2024	02/19/2024	
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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 - Dillard USX AB #03-14P

WH-SS-02@6'
2/13/2024 3:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402324-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.703	0.0999	mg/L	1	B4B1511	ACC	02/15/2024	02/16/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B1434	ADM	02/14/2024	02/19/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	83.9 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4B1503	ZZZ	02/15/2024	02/15/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	0.678	0.200	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130			"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	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 - Dillard USX AB #03-14P

WH-SS-02@6'
2/13/2024 3:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402324-04 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.26	0.499	meq/L	10	[CALC]	ACC	02/17/2024	02/19/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	3.42	0.435	"	"	"	ACC	"	"

PAH by EPA 8270E

1-Methylnaphthalene	0.005	0.002	mg/kg	1	B4B1439	Windo	02/15/2024	02/16/2024	
2-Methylnaphthalene	0.005	0.002	"	"	"	Windo	"	"	
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10
Origins Laboratory, Inc.

100 % 60-130 " " "

J. Bynon

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

Andrew Newberry
Project Number: [none]
Project: Noble - Dillard USX AB #03-14P

WH-SS-02@6'
2/13/2024 3:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402324-04 (Soil)

PAH by EPA 8270E

Surrogate: Anthracene-d10	99.0 %	60-130			B4B14 39		02/15/2024	02/16/2024	
Surrogate: Pyrene-d10	93.3 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	98.2 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.69		pH Units	1	B4B1707	EAL	02/17/2024	02/19/2024	
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SAR by 20B Saturated Paste

SAR	3.63	0.0100	SAR	1	B4B1703	ACC	02/17/2024	02/19/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.583	0.00500	mmhos/cm	1	B4B1707	EAL	02/17/2024	02/19/2024	
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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 - Dillard USX AB #03-14P

WH-SS-03@6'
2/13/2024 3:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402324-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.627	0.100	mg/L	1	B4B1511	ACC	02/15/2024	02/16/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B1434	ADM	02/14/2024	02/19/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	89.9 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4B1503	ZZZ	02/15/2024	02/15/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"
Surrogate: Toluene-d8	102 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"

Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: [none]
Project: Noble - Dillard USX AB #03-14P

WH-SS-03@6'
2/13/2024 3:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402324-05 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.21	0.499	meq/L	10	[CALC]	ACC	02/17/2024	02/19/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	1.87	0.435	"	"	"	ACC	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4B1439	Windo	02/15/2024	02/16/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	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 - Dillard USX AB #03-14P

WH-SS-03@6'
2/13/2024 3:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402324-05 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	99.7 %	60-130			B4B14 39		02/15/2024	02/16/2024
Surrogate: Anthracene-d10	95.8 %	60-130			"		"	"
Surrogate: Pyrene-d10	91.1 %	60-130			"		"	"
Surrogate: Benzo (a) pyrene-d12	99.9 %	60-130			"		"	"

pH in Soil by 9045D

pH	8.29		pH Units	1	B4B1707	EAL	02/17/2024	02/19/2024
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SAR by 20B Saturated Paste

SAR	1.94	0.0100	SAR	1	B4B1703	ACC	02/17/2024	02/19/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.386	0.00500	mmhos/cm	1	B4B1707	EAL	02/17/2024	02/19/2024
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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 - Dillard USX AB #03-14P

WH-SS-04@6'
2/13/2024 3:41:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402324-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.703	0.0998	mg/L	1	B4B1511	ACC	02/15/2024	02/16/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	29.0	25.0	mg/kg	1	B4B1434	ADM	02/14/2024	02/19/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	92.2 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4B1503	ZZZ	02/15/2024	02/15/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"
Surrogate: Toluene-d8	101 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"

Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: [none]
Project: Noble - Dillard USX AB #03-14P

WH-SS-04@6'
2/13/2024 3:41:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402324-06 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.05	0.499	meq/L	10	[CALC]	ACC	02/17/2024	02/19/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	2.30	0.435	"	"	"	ACC	"	"

PAH by EPA 8270E

1-Methylnaphthalene	0.004	0.002	mg/kg	1	B4B1439	Windo	02/15/2024	02/16/2024	
2-Methylnaphthalene	0.004	0.002	"	"	"	Windo	"	"	
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10 101 % 60-130 " " "

Origins Laboratory, Inc.

J. Bynon

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

Andrew Newberry
Project Number: [none]
Project: Noble - Dillard USX AB #03-14P

WH-SS-04@6'
2/13/2024 3:41:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402324-06 (Soil)

PAH by EPA 8270E

Surrogate: Anthracene-d10	98.3 %	60-130			B4B14 39		02/15/2024	02/16/2024	
Surrogate: Pyrene-d10	93.6 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	100 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.30		pH Units	1	B4B1707	EAL	02/17/2024	02/19/2024	
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SAR by 20B Saturated Paste

SAR	2.57	0.0100	SAR	1	B4B1703	ACC	02/17/2024	02/19/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.422	0.00500	mmhos/cm	1	B4B1707	EAL	02/17/2024	02/19/2024	
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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Dillard USX AB #03-14P

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 B4B1434 - EPA 3550B										
Blank (B4B1434-BLK1)					Prepared: 02/14/2024 Analyzed: 02/19/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		86.0	50-150			

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 - Dillard USX AB #03-14P

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 B4B1434 - EPA 3550B										
LCS (B4B1434-BS1)					Prepared: 02/14/2024 Analyzed: 02/19/2024					
Diesel (C10-C28)	850	50.0	mg/kg	1000		85.0	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000		102	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	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 - Dillard USX AB #03-14P

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 B4B1434 - EPA 3550B

Matrix Spike (B4B1434-MS1)		Source: Y402230-02			Prepared: 02/14/2024 Analyzed: 02/19/2024					
Diesel (C10-C28)	913	50.0	mg/kg	1000	ND	91.3	70-130			
Residual Range Organics (C28-C40)	1150	200	"	1000	ND	115	70-130			
Surrogate: o-Terphenyl	46		"	49.8		92.0	50-150			

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Jordan A. Bynon, Project Manager

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

Andrew Newberry
Project Number: [none]
Project: Noble - Dillard USX AB #03-14P

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 B4B1434 - EPA 3550B

Matrix Spike Dup (B4B1434-MSD1)		Source: Y402230-02			Prepared: 02/14/2024 Analyzed: 02/19/2024					
Diesel (C10-C28)	871	50.0	mg/kg	1000	ND	87.1	70-130	4.71	35	
Residual Range Organics (C28-C40)	1070	200	"	1000	ND	107	70-130	7.42	35	
Surrogate: o-Terphenyl	43		"	49.8		85.8	50-150			

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 - Dillard USX AB #03-14P

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 B4B1503 - EPA 5030 (soil)										
Blank (B4B1503-BLK1)					Prepared: 02/15/2024 Analyzed: 02/15/2024					
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	0.11		"	0.125		89.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	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 - Dillard USX AB #03-14P

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 B4B1503 - EPA 5030 (soil)										
LCS (B4B1503-BS1)					Prepared: 02/15/2024 Analyzed: 02/15/2024					
1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100		107	70-130			
1,3,5-Trimethylbenzene	0.111	0.00200	"	0.100		111	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.111	0.00200	"	0.100		111	70-130			
Naphthalene	0.0968	0.00380	"	0.100		96.8	70-130			
Toluene	0.0991	0.00200	"	0.100		99.1	70-130			
o-Xylene	0.0938	0.00200	"	0.100		93.8	70-130			
m,p-Xylene	0.217	0.00400	"	0.200		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.1	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 - Dillard USX AB #03-14P

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 B4B1503 - EPA 5030 (soil)										
Matrix Spike (B4B1503-MS1)		Source: Y402324-01			Prepared: 02/15/2024 Analyzed: 02/15/2024					
1,2,4-Trimethylbenzene	0.0822	0.00200	mg/kg	0.100	ND	82.2	70-130			
1,3,5-Trimethylbenzene	0.0855	0.00200	"	0.100	ND	85.5	70-130			
Benzene	0.0822	0.00200	"	0.100	ND	82.2	70-130			
Ethylbenzene	0.0891	0.00200	"	0.100	ND	89.1	70-130			
Naphthalene	0.0879	0.00380	"	0.100	ND	87.9	70-130			
Toluene	0.0808	0.00200	"	0.100	ND	80.8	70-130			
o-Xylene	0.0843	0.00200	"	0.100	ND	84.3	70-130			
m,p-Xylene	0.179	0.00400	"	0.200	ND	89.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.1	70-130			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Dillard USX AB #03-14P

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 B4B1503 - EPA 5030 (soil)										
Matrix Spike Dup (B4B1503-MSD1)		Source: Y402324-01			Prepared: 02/15/2024 Analyzed: 02/15/2024					
1,2,4-Trimethylbenzene	0.0976	0.00200	mg/kg	0.100	ND	97.6	70-130	17.1	20	
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130	16.5	20	
Benzene	0.0972	0.00200	"	0.100	ND	97.2	70-130	16.8	20	
Ethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130	13.5	20	
Naphthalene	0.110	0.00380	"	0.100	ND	110	70-130	22.4	20	QR-02
Toluene	0.0949	0.00200	"	0.100	ND	94.9	70-130	16.1	20	
o-Xylene	0.0966	0.00200	"	0.100	ND	96.6	70-130	13.6	20	
m,p-Xylene	0.207	0.00400	"	0.200	ND	104	70-130	14.8	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.7	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 - Dillard USX AB #03-14P

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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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 B4B1439 - EPA 3580

Blank (B4B1439-BLK1)

Prepared: 02/15/2024 Analyzed: 02/16/2024

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	190		ug/kg	200		96.9	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

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

Andrew Newberry
Project Number: [none]
Project: Noble - Dillard USX AB #03-14P

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 B4B1439 - EPA 3580

LCS (B4B1439-BS1)

Prepared: 02/15/2024 Analyzed: 02/16/2024

1-Methylnaphthalene	0.193	0.002	mg/kg	0.200		96.3	70-130
2-Methylnaphthalene	0.185	0.002	"	0.200		92.7	70-130
Acenaphthene	0.184	0.020	"	0.200		91.8	70-130
Anthracene	0.204	0.020	"	0.200		102	70-130
Benzo (a) anthracene	0.186	0.005	"	0.200		93.2	70-130
Benzo (a) pyrene	0.185	0.020	"	0.200		92.6	70-130
Benzo (b) fluoranthene	0.205	0.020	"	0.200		102	70-130
Benzo (g,h,i) perylene	0.197	0.020	"	0.200		98.7	70-130
Benzo (k) fluoranthene	0.204	0.020	"	0.200		102	70-130
Chrysene	0.190	0.020	"	0.200		95.1	70-130
Dibenz (a,h) anthracene	0.212	0.020	"	0.200		106	70-130
Fluoranthene	0.194	0.020	"	0.200		97.1	70-130
Fluorene	0.172	0.020	"	0.200		86.2	70-130
Indeno (1,2,3-cd) pyrene	0.201	0.020	"	0.200		100	70-130
Naphthalene	0.188	0.002	"	0.200		94.2	70-130
Phenanthrene	0.192	0.020	"	0.200		96.2	70-130
Pyrene	0.188	0.020	"	0.200		94.2	70-130

Surrogate: Fluorene-d10	190		ug/kg	200		93.7	60-130
Surrogate: Anthracene-d10	210		"	200		105	60-130
Surrogate: Pyrene-d10	210		"	200		104	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200		107	60-130

Matrix Spike (B4B1439-MS1)

Source: Y402279-01

Prepared: 02/15/2024 Analyzed: 02/16/2024

1-Methylnaphthalene	0.180	0.002	mg/kg	0.200	ND	89.9	70-130
2-Methylnaphthalene	0.180	0.002	"	0.200	ND	90.1	70-130
Acenaphthene	0.180	0.020	"	0.200	ND	89.9	70-130
Anthracene	0.200	0.020	"	0.200	ND	100	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 - Dillard USX AB #03-14P

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 B4B1439 - EPA 3580

Matrix Spike (B4B1439-MS1)		Source: Y402279-01			Prepared: 02/15/2024 Analyzed: 02/16/2024					
Benzo (a) anthracene	0.182	0.005	mg/kg	0.200	0.0004	90.9	70-130			
Benzo (a) pyrene	0.182	0.020	"	0.200	0.002	90.0	70-130			
Benzo (b) fluoranthene	0.192	0.020	"	0.200	ND	95.8	70-130			
Benzo (g,h,i) perylene	0.185	0.020	"	0.200	ND	92.4	70-130			
Benzo (k) fluoranthene	0.177	0.020	"	0.200	ND	88.6	70-130			
Chrysene	0.193	0.020	"	0.200	0.0003	96.4	70-130			
Dibenz (a,h) anthracene	0.175	0.020	"	0.200	ND	87.3	70-130			
Fluoranthene	0.199	0.020	"	0.200	ND	99.4	70-130			
Fluorene	0.169	0.020	"	0.200	ND	84.4	70-130			
Indeno (1,2,3-cd) pyrene	0.180	0.020	"	0.200	ND	89.8	70-130			
Naphthalene	0.182	0.002	"	0.200	ND	91.2	70-130			
Phenanthrene	0.191	0.020	"	0.200	ND	95.4	70-130			
Pyrene	0.193	0.020	"	0.200	ND	96.7	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		94.4	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	210		"	200		105	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

Matrix Spike Dup (B4B1439-MSD1)		Source: Y402279-01			Prepared: 02/15/2024 Analyzed: 02/16/2024					
1-Methylnaphthalene	0.187	0.002	mg/kg	0.200	ND	93.7	70-130	4.18	20	
2-Methylnaphthalene	0.187	0.002	"	0.200	ND	93.6	70-130	3.83	20	
Acenaphthene	0.186	0.020	"	0.200	ND	93.2	70-130	3.59	20	
Anthracene	0.212	0.020	"	0.200	ND	106	70-130	5.68	20	
Benzo (a) anthracene	0.189	0.005	"	0.200	0.0004	94.4	70-130	3.79	20	
Benzo (a) pyrene	0.184	0.020	"	0.200	0.002	91.2	70-130	1.33	20	
Benzo (b) fluoranthene	0.197	0.020	"	0.200	ND	98.6	70-130	2.88	20	
Benzo (g,h,i) perylene	0.184	0.020	"	0.200	ND	92.2	70-130	0.214	20	

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

Andrew Newberry
Project Number: [none]
Project: Noble - Dillard USX AB #03-14P

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 B4B1439 - EPA 3580

Matrix Spike Dup (B4B1439-MSD1)		Source: Y402279-01			Prepared: 02/15/2024 Analyzed: 02/16/2024					
Benzo (k) fluoranthene	0.196	0.020	mg/kg	0.200	ND	97.9	70-130	9.98	20	
Chrysene	0.194	0.020	"	0.200	0.0003	97.0	70-130	0.671	20	
Dibenz (a,h) anthracene	0.191	0.020	"	0.200	ND	95.5	70-130	8.92	20	
Fluoranthene	0.185	0.020	"	0.200	ND	92.7	70-130	6.90	20	
Fluorene	0.181	0.020	"	0.200	ND	90.5	70-130	7.02	20	
Indeno (1,2,3-cd) pyrene	0.188	0.020	"	0.200	ND	94.2	70-130	4.76	20	
Naphthalene	0.196	0.002	"	0.200	ND	98.0	70-130	7.10	20	
Phenanthrene	0.200	0.020	"	0.200	ND	100	70-130	4.82	20	
Pyrene	0.184	0.020	"	0.200	ND	92.0	70-130	5.03	20	
Surrogate: Fluorene-d10	190		ug/kg	200		95.6	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	190		"	200		94.2	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

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 - Dillard USX AB #03-14P

Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4B1511 - DTPA Sorbitol Preparation										
Blank (B4B1511-BLK1)					Prepared: 02/15/2024 Analyzed: 02/16/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4B1511-DUP1)					Source: Y402298-11 Prepared: 02/15/2024 Analyzed: 02/16/2024					
Boron	1.16	0.0999	mg/L		1.00			14.6	50	
Batch B4B1703 - Saturated Paste Metals										
Blank (B4B1703-BLK1)					Prepared: 02/17/2024 Analyzed: 02/19/2024					
SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							
Duplicate (B4B1703-DUP1)					Source: Y402324-01 Prepared: 02/17/2024 Analyzed: 02/19/2024					
Calcium PPM	23.7	10.0	mg/L		24.9			5.14	50	
SAR	ND	0.0100	SAR		1.19				200	
Magnesium PPM	9.14	10.0	mg/L		9.61			5.01	50	
Sodium PPM	30.1	10.0	"		27.5			9.13	50	

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 - Dillard USX AB #03-14P

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4B1707 - Saturated Paste pH/EC										
Blank (B4B1707-BLK1)					Prepared: 02/17/2024 Analyzed: 02/19/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4B1707-DUP1)					Source: Y402324-01 Prepared: 02/17/2024 Analyzed: 02/19/2024					
Specific Conductance (EC)	0.314	0.00500	mmhos/cm		0.306			2.68	25	
pH	8.34		pH Units		8.33			0.120	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 - Dillard USX AB #03-14P

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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



April 18, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Dillard USX AB #03-14P

Project Number - [none]

Attached are your analytical results for Noble - Dillard USX AB #03-14P received by Origins Laboratory, Inc. April 05, 2024. This project is associated with Origins project number Y404195-01.

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 - Dillard USX AB #03-14P

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-02@3'	Y404195-01	Soil	April 5, 2024 10:15	04/05/2024 15:17

Origins Laboratory, Inc.



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

Jordan A. Bynon, Project Manager

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

Andrew Newberry
Project Number: [none]
Project: Noble - Dillard USX AB #03-14P

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y404195

Client: Eagle
Client Project ID: N06E-Dillard USX AB03-

Checklist Completed by: SALEHO

Shipped Via: 40
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A

Date/time completed: 4/5/12

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

Cooler Number/Temperature: 1 / 4.6 °C / °C / °C (Describe) °C

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⁾ ?	<u>/</u>			
Is there ice present (document if blue ice is used)	<u>/</u>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<u>/</u>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<u>/</u>		
Were all samples received intact ⁽¹⁾ ?	<u>/</u>			
Was adequate sample volume provided ⁽¹⁾ ?	<u>/</u>			
Are short holding time analytes or samples with HTS due within 48 hours present ⁽¹⁾ ?		<u>/</u>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<u>/</u>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<u>/</u>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<u>/</u>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<u>/</u>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<u>/</u>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for sub-contracted 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)			<u>/</u>	
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]

4/9/12
Date/Time Reviewed

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 - Dillard USX AB #03-14P

Background-02@3'
4/5/2024 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404195-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.504	0.101	mg/L	1	B4D0809	04/08/2024	04/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D0817	04/08/2024	04/10/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	63.7 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D1015	04/10/2024	04/10/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Naphthalene	ND	0.00380	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

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 - Dillard USX AB #03-14P

Background-02@3'
4/5/2024 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404195-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	134 %	70-130	B4D1015	04/10/2024	04/10/2024	GC
Surrogate: Toluene-d8	101 %	70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.3 %	70-130	"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	7.89	0.499	meq/L	10	[CALC]	04/08/2024	04/10/2024
Magnesium	3.51	0.823	"	"	"	"	"
Sodium	3.76	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D1025	04/10/2024	04/12/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua

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 - Dillard USX AB #03-14P

Background-02@3'
4/5/2024 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404195-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B4D1025	04/10/2024	04/12/2024	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	106 %	60-130	"	"	"
Surrogate: Anthracene-d10	102 %	60-130	"	"	"
Surrogate: Pyrene-d10	86.4 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	122 %	60-130	"	"	"

pH in Soil by 9045D

pH	7.82	pH Units	1	B4D0811	04/08/2024	04/09/2024
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SAR by 20B Saturated Paste

SAR	1.57	0.0100	SAR	1	B4D0803	04/08/2024	04/10/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.41	0.00500	mmhos/cm	1	B4D0811	04/08/2024	04/09/2024
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Dillard USX AB #03-14P

Background-02@3'
4/5/2024 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404195-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.21	0.263	mg/kg	10	B4D0542	04/05/2024	04/09/2024
Barium	467	9.06	"	"	"	"	"
Cadmium	0.281	0.0906	"	"	"	"	"
Copper	14.2	9.06	"	"	"	"	"
Lead	15.5	0.906	"	"	"	"	"
Nickel	12.1	0.906	"	"	"	"	"
Selenium	0.690	0.236	"	"	"	"	"
Silver	ND	0.0906	"	"	"	"	"
Zinc	57.3	33.5	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	0.121	0.106	0.265	mg/kg dry	1	2594777	04/10/2024	04/10/2024	J
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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 - Dillard USX AB #03-14P

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 B4D0817 - EPA 3550B										
Blank (B4D0817-BLK1)					Prepared: 04/08/2024 Analyzed: 04/10/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	23		"	24.9		91.8	50-150			

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 - Dillard USX AB #03-14P

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 B4D0817 - EPA 3550B										
LCS (B4D0817-BS1)					Prepared: 04/08/2024 Analyzed: 04/10/2024					
Diesel (C10-C28)	917	50.0	mg/kg	1000		91.7	70-130			
Residual Range Organics (C28-C40)	990	200	"	1000		99.0	70-130			
Surrogate: o-Terphenyl	49		"	49.8		99.0	50-150			

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 - Dillard USX AB #03-14P

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 B4D0817 - EPA 3550B

Matrix Spike (B4D0817-MS1)		Source: Y404157-01			Prepared: 04/08/2024 Analyzed: 04/10/2024					
Diesel (C10-C28)	912	50.0	mg/kg	1000	ND	91.2	70-130			
Residual Range Organics (C28-C40)	983	200	"	1000	ND	98.3	70-130			
Surrogate: o-Terphenyl	42		"	49.8		84.9	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Andrew Newberry
Project Number: [none]
Project: Noble - Dillard USX AB #03-14P

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 B4D0817 - EPA 3550B										
Matrix Spike Dup (B4D0817-MSD1)		Source: Y404157-01			Prepared: 04/08/2024 Analyzed: 04/10/2024					
Diesel (C10-C28)	913	50.0	mg/kg	1000	ND	91.3	70-130	0.0142	35	
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130	2.68	35	
Surrogate: o-Terphenyl	64		"	49.8		129	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Andrew Newberry
Project Number: [none]
Project: Noble - Dillard USX AB #03-14P

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 B4D1015 - EPA 5030 (soil)										
Blank (B4D1015-BLK1)					Prepared: 04/10/2024 Analyzed: 04/10/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.17		"	0.125	134		70-130			S-GC
Surrogate: Toluene-d8	0.13		"	0.125	102		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	95.5		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 - Dillard USX AB #03-14P

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 B4D1015 - EPA 5030 (soil)										
LCS (B4D1015-BS1)					Prepared: 04/10/2024 Analyzed: 04/10/2024					
1,2,4-Trimethylbenzene	0.0979	0.00200	mg/kg	0.100		97.9	70-130			
1,3,5-Trimethylbenzene	0.0958	0.00200	"	0.100		95.8	70-130			
Benzene	0.0909	0.00200	"	0.100		90.9	70-130			
Ethylbenzene	0.0964	0.00200	"	0.100		96.4	70-130			
Naphthalene	0.114	0.00380	"	0.100		114	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
o-Xylene	0.103	0.00200	"	0.100		103	70-130			
m,p-Xylene	0.192	0.00400	"	0.200		95.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.17		"	0.125		133	70-130			S-GC
Surrogate: Toluene-d8	0.12		"	0.125		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	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 - Dillard USX AB #03-14P

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 B4D1015 - EPA 5030 (soil)										
Matrix Spike (B4D1015-MS1)		Source: Y404172-01			Prepared: 04/10/2024 Analyzed: 04/10/2024					
1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100	0.000520	106	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130			
Benzene	0.101	0.00200	"	0.100	ND	101	70-130			
Ethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130			
Naphthalene	0.120	0.00380	"	0.100	0.00276	117	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	0.205	0.00400	"	0.200	0.000720	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.16		"	0.125		131	70-130			S-GC
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	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 - Dillard USX AB #03-14P

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 B4D1015 - EPA 5030 (soil)										
Matrix Spike Dup (B4D1015-MSD1)		Source: Y404172-01			Prepared: 04/10/2024 Analyzed: 04/10/2024					
1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100	0.000520	111	70-130	4.51	20	
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100	ND	110	70-130	4.82	20	
Benzene	0.105	0.00200	"	0.100	ND	105	70-130	3.77	20	
Ethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130	4.75	20	
Naphthalene	0.137	0.00380	"	0.100	0.00276	134	70-130	13.4	20	QM-07
Toluene	0.115	0.00200	"	0.100	ND	115	70-130	4.15	20	
o-Xylene	0.118	0.00200	"	0.100	ND	118	70-130	5.43	20	
m,p-Xylene	0.215	0.00400	"	0.200	0.000720	107	70-130	4.66	20	
Surrogate: 1,2-Dichloroethane-d4	0.16		"	0.125		129	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - Dillard USX AB #03-14P

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 B4D0542 - EPA 3050B

Blank (B4D0542-BLK1)

Prepared: 04/05/2024 Analyzed: 04/09/2024

Arsenic	ND	0.290	mg/kg
Barium	ND	10.0	"
Cadmium	ND	0.100	"
Copper	ND	10.0	"
Lead	ND	1.00	"
Nickel	ND	1.00	"
Selenium	ND	0.260	"
Silver	ND	0.100	"
Zinc	ND	37.0	"

LCS (B4D0542-BS1)

Prepared: 04/05/2024 Analyzed: 04/09/2024

Arsenic	5.29	0.290	mg/kg	5.00	106	80-120
Barium	512	10.0	"	500	102	80-120
Cadmium	5.78	0.100	"	5.00	116	80-120
Copper	55.7	10.0	"	50.0	111	80-120
Lead	5.38	1.00	"	5.00	108	80-120
Nickel	5.36	1.00	"	5.00	107	80-120
Selenium	10.6	0.260	"	9.50	111	80-120
Silver	5.84	0.100	"	5.00	117	80-120
Zinc	55.8	37.0	"	50.0	112	80-120

Matrix Spike (B4D0542-MS1)

Source: Y404189-01

Prepared: 04/05/2024 Analyzed: 04/09/2024

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 - Dillard USX AB #03-14P

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 B4D0542 - EPA 3050B

Matrix Spike (B4D0542-MS1)		Source: Y404189-01			Prepared: 04/05/2024 Analyzed: 04/09/2024					
Arsenic	11.7	0.253	mg/kg	4.36	7.18	104	75-125			
Barium	676	8.71	"	436	184	113	75-125			
Cadmium	5.01	0.0871	"	4.36	0.253	109	75-125			
Copper	62.1	8.71	"	43.6	15.6	107	75-125			
Lead	17.4	0.871	"	4.36	13.8	84.3	75-125			
Nickel	21.6	0.871	"	4.36	17.5	94.1	75-125			
Selenium	9.16	0.227	"	8.28	0.819	101	75-125			
Silver	5.04	0.0871	"	4.36	0.0995	114	75-125			
Zinc	107	32.2	"	43.6	60.2	107	75-125			
Matrix Spike Dup (B4D0542-MSD1)		Source: Y404189-01			Prepared: 04/05/2024 Analyzed: 04/09/2024					
Arsenic	11.3	0.257	mg/kg	4.44	7.18	92.1	75-125	3.99	20	
Barium	658	8.88	"	444	184	107	75-125	2.70	20	
Cadmium	5.19	0.0888	"	4.44	0.253	111	75-125	3.62	20	
Copper	63.8	8.88	"	44.4	15.6	109	75-125	2.81	20	
Lead	18.0	0.888	"	4.44	13.8	94.5	75-125	2.95	20	
Nickel	22.3	0.888	"	4.44	17.5	107	75-125	3.04	20	
Selenium	9.53	0.231	"	8.43	0.819	103	75-125	3.95	20	
Silver	5.01	0.0888	"	4.44	0.0995	111	75-125	0.690	20	
Zinc	106	32.8	"	44.4	60.2	104	75-125	0.241	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 - Dillard USX AB #03-14P

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 B4D1025 - EPA 3580

Blank (B4D1025-BLK1)

Prepared: 04/10/2024 Analyzed: 04/11/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua

Surrogate: Fluorene-d10	200		ug/kg	200		99.5	60-130			
Surrogate: Anthracene-d10	210		"	200		106	60-130			
Surrogate: Pyrene-d10	170		"	200		86.8	60-130			
Surrogate: Benzo (a) pyrene-d12	240		"	200		121	60-130			

LCS (B4D1025-BS1)

Prepared: 04/10/2024 Analyzed: 04/11/2024

1-Methylnaphthalene	0.197	0.002	mg/kg	0.200		98.3	70-130			
2-Methylnaphthalene	0.199	0.002	"	0.200		99.6	70-130			
Acenaphthene	0.169	0.020	"	0.200		84.7	70-130			
Anthracene	0.178	0.020	"	0.200		88.8	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 - Dillard USX AB #03-14P

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 B4D1025 - EPA 3580

LCS (B4D1025-BS1)

Prepared: 04/10/2024 Analyzed: 04/11/2024

Benzo (a) anthracene	0.192	0.005	mg/kg	0.200		96.0	70-130			
Benzo (a) pyrene	0.233	0.020	"	0.200		116	70-130			
Benzo (b) fluoranthene	0.233	0.020	"	0.200		117	70-130			
Benzo (g,h,i) perylene	0.236	0.020	"	0.200		118	70-130			
Benzo (k) fluoranthene	0.211	0.020	"	0.200		106	70-130			
Chrysene	0.191	0.020	"	0.200		95.7	70-130			
Dibenz (a,h) anthracene	0.284	0.020	"	0.200		142	70-130			QM-11
Fluoranthene	0.160	0.020	"	0.200		79.8	70-130			
Fluorene	0.163	0.020	"	0.200		81.4	70-130			
Indeno (1,2,3-cd) pyrene	0.247	0.020	"	0.200		124	70-130			
Naphthalene	0.174	0.002	"	0.200		87.0	70-130			
Phenanthrene	0.184	0.020	"	0.200		92.2	70-130			
Pyrene	0.166	0.020	"	0.200		82.8	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	210		"	200		104	60-130			
Surrogate: Pyrene-d10	170		"	200		86.4	60-130			
Surrogate: Benzo (a) pyrene-d12	250		"	200		124	60-130			

Matrix Spike (B4D1025-MS1)

Source: Y404099-01

Prepared: 04/10/2024 Analyzed: 04/11/2024

1-Methylnaphthalene	0.207	0.002	mg/kg	0.200	ND	104	70-130			
2-Methylnaphthalene	0.205	0.002	"	0.200	ND	103	70-130			
Acenaphthene	0.175	0.020	"	0.200	0.002	86.8	70-130			
Anthracene	0.191	0.020	"	0.200	0.0008	95.2	70-130			
Benzo (a) anthracene	0.203	0.005	"	0.200	ND	101	70-130			
Benzo (a) pyrene	0.230	0.020	"	0.200	ND	115	70-130			
Benzo (b) fluoranthene	0.243	0.020	"	0.200	0.002	120	70-130			
Benzo (g,h,i) perylene	0.245	0.020	"	0.200	0.003	121	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 - Dillard USX AB #03-14P

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 B4D1025 - EPA 3580

Matrix Spike (B4D1025-MS1)		Source: Y404099-01			Prepared: 04/10/2024 Analyzed: 04/11/2024					
Benzo (k) fluoranthene	0.210	0.020	mg/kg	0.200	0.004	103	70-130			
Chrysene	0.206	0.020	"	0.200	0.001	102	70-130			
Dibenz (a,h) anthracene	0.288	0.020	"	0.200	0.003	142	70-130			QM-07
Fluoranthene	0.164	0.020	"	0.200	0.0007	81.5	70-130			
Fluorene	0.168	0.020	"	0.200	ND	83.9	70-130			
Indeno (1,2,3-cd) pyrene	0.258	0.020	"	0.200	0.003	127	70-130			
Naphthalene	0.180	0.002	"	0.200	ND	90.0	70-130			
Phenanthrene	0.190	0.020	"	0.200	ND	95.1	70-130			
Pyrene	0.167	0.020	"	0.200	ND	83.6	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.0	60-130			
Surrogate: Anthracene-d10	210		"	200		106	60-130			
Surrogate: Pyrene-d10	170		"	200		85.4	60-130			
Surrogate: Benzo (a) pyrene-d12	250		"	200		124	60-130			

Matrix Spike Dup (B4D1025-MSD1)		Source: Y404099-01			Prepared: 04/10/2024 Analyzed: 04/11/2024					
1-Methylnaphthalene	0.200	0.002	mg/kg	0.200	ND	99.8	70-130	3.68	20	
2-Methylnaphthalene	0.202	0.002	"	0.200	ND	101	70-130	1.61	20	
Acenaphthene	0.170	0.020	"	0.200	0.002	84.3	70-130	2.91	20	
Anthracene	0.177	0.020	"	0.200	0.0008	88.3	70-130	7.46	20	
Benzo (a) anthracene	0.185	0.005	"	0.200	ND	92.7	70-130	9.02	20	
Benzo (a) pyrene	0.227	0.020	"	0.200	ND	113	70-130	1.25	20	
Benzo (b) fluoranthene	0.232	0.020	"	0.200	0.002	115	70-130	4.71	20	
Benzo (g,h,i) perylene	0.238	0.020	"	0.200	0.003	117	70-130	2.93	20	
Benzo (k) fluoranthene	0.206	0.020	"	0.200	0.004	101	70-130	1.56	20	
Chrysene	0.189	0.020	"	0.200	0.001	93.8	70-130	8.77	20	
Dibenz (a,h) anthracene	0.283	0.020	"	0.200	0.003	140	70-130	1.87	20	QM-07
Fluoranthene	0.158	0.020	"	0.200	0.0007	78.7	70-130	3.49	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 - Dillard USX AB #03-14P

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 B4D1025 - EPA 3580

Matrix Spike Dup (B4D1025-MSD1)		Source: Y404099-01			Prepared: 04/10/2024 Analyzed: 04/11/2024					
Fluorene	0.164	0.020	mg/kg	0.200	ND	81.8	70-130	2.57	20	
Indeno (1,2,3-cd) pyrene	0.246	0.020	"	0.200	0.003	121	70-130	4.81	20	
Naphthalene	0.176	0.002	"	0.200	ND	87.9	70-130	2.38	20	
Phenanthrene	0.184	0.020	"	0.200	ND	92.1	70-130	3.24	20	
Pyrene	0.161	0.020	"	0.200	ND	80.4	70-130	3.87	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.6	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	170		"	200		85.5	60-130			
Surrogate: Benzo (a) pyrene-d12	250		"	200		124	60-130			

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 - Dillard USX AB #03-14P

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 B4D0803 - Saturated Paste Metals

Blank (B4D0803-BLK1)

Prepared: 04/08/2024 Analyzed: 04/10/2024

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 (B4D0803-DUP1)

Source: Y404180-09

Prepared: 04/08/2024 Analyzed: 04/10/2024

SAR	ND	0.0100	SAR	8.71			200
Calcium PPM	6.62	10.0	mg/L	6.17		7.04	50
Magnesium PPM	2.24	10.0	"	2.19		2.26	50
Sodium PPM	105	10.0	"	98.9		5.90	50

Batch B4D0809 - DTPA Sorbitol Preparation

Blank (B4D0809-BLK1)

Prepared: 04/08/2024 Analyzed: 04/09/2024

Boron	ND	0.100	mg/L
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Duplicate (B4D0809-DUP1)

Source: Y404143-01

Prepared: 04/08/2024 Analyzed: 04/09/2024

Boron	0.277	0.0999	mg/L	0.225		21.0	50
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Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Andrew Newberry
Project Number: [none]
Project: Noble - Dillard USX AB #03-14P

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4D0811 - Saturated Paste pH/EC										
Blank (B4D0811-BLK1)					Prepared: 04/08/2024 Analyzed: 04/09/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4D0811-DUP1)					Source: Y404180-09 Prepared: 04/08/2024 Analyzed: 04/09/2024					
Specific Conductance (EC)	0.574	0.00500	mmhos/cm		0.583			1.68	25	
pH	8.74		pH Units		8.70			0.459	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 - Dillard USX AB #03-14P

Total Metals by 7196A - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2594777 - SW846 3060A										
BLANK (1205699469-BLK)					Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	ND	0.390	mg/kg				-			U
LCS (1205699470-BKS)					Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	3.80	0.386	mg/kg	3.86		98.5	80-120			
DUP (1205699471 D)					Source: 662201001 Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	ND	0.390	mg/kg dry		<0.156		0-50	N/A	50	U
MS (1205699472 S)					Source: 662201001 Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	2.12	0.390	mg/kg dry	3.90	<0.156	54.2	75-125			
DUP (1205699473 D)					Source: 662203003 Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	0.174	0.382	mg/kg dry		<0.153		0-50	N/A	50	J
MS (1205699474 S)					Source: 662203003 Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	1.74	0.382	mg/kg dry	3.82	<0.153	42	75-125			
ILCS (1205699475-ILCS)					Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	7.84	0.379	mg/kg	7.78		101	80-120			

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 - Dillard USX AB #03-14P

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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

QM-11 Spike recovery was outside acceptance limits for LCS, however samples are non-detect for this compound.

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

J Greater than the detection limit but less than the reporting limit

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



April 18, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Dillard USX AB #03-14P

Project Number - [none]

Attached are your analytical results for Noble - Dillard USX AB #03-14P received by Origins Laboratory, Inc. April 05, 2024. This project is associated with Origins project number Y404196-01.

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 - Dillard USX AB #03-14P

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS02@5	Y404196-01	Soil	April 5, 2024 10:10	04/05/2024 15:17
FL-SS07@4	Y404196-02	Soil	April 5, 2024 12:05	04/05/2024 15:17

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 - Dillard USX AB #03-14P

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1404196

Client: Eagle

Client Project ID: Noble - Dillard USX AB03-

Checklist Completed by: SA/CHU

Shipped Via: HD

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

Date/time completed: 4/5/12

Airbill #: N/A

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

Cooler Number/Temperature: 1 46 °C / °C / °C (Describe) / °C

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽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 checked="" 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 (Signature) (Project Manager)

4/9/12
Date/Time Reviewed

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 - Dillard USX AB #03-14P

FL-SS02@5

4/5/2024 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404196-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.887	0.100	mg/L	1	B4D0906	04/09/2024	04/10/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D0817	04/08/2024	04/10/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	88.2 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D1015	04/10/2024	04/10/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Naphthalene	ND	0.00380	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

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 - Dillard USX AB #03-14P

FL-SS02@5

4/5/2024 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404196-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	133 %	70-130	B4D1015	04/10/2024	04/10/2024	GC
Surrogate: Toluene-d8	101 %	70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.3 %	70-130	"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.07	0.499	meq/L	10	[CALC]	04/08/2024	04/10/2024
Magnesium	1.14	0.823	"	"	"	"	"
Sodium	2.08	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D1130	04/11/2024	04/13/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua

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 - Dillard USX AB #03-14P

FL-SS02@5

4/5/2024 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404196-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B4D1130	04/11/2024	04/13/2024	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.6 %	60-130	"	"	"
Surrogate: Anthracene-d10	104 %	60-130	"	"	"
Surrogate: Pyrene-d10	90.4 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	94.9 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.08	pH Units	1	B4D0811	04/08/2024	04/09/2024
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SAR by 20B Saturated Paste

SAR	1.64	0.0100	SAR	1	B4D0803	04/08/2024	04/10/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.676	0.00500	mmhos/cm	1	B4D0811	04/08/2024	04/09/2024
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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 - Dillard USX AB #03-14P

FL-SS02@5

4/5/2024 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404196-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.52	0.247	mg/kg	10	B4D0824	04/08/2024	04/09/2024
Barium	99.9	8.53	"	"	"	"	"
Cadmium	0.323	0.0853	"	"	"	"	"
Copper	13.1	8.53	"	"	"	"	"
Lead	11.6	0.853	"	"	"	"	"
Nickel	10.3	0.853	"	"	"	"	"
Selenium	0.491	0.222	"	"	"	"	"
Silver	0.108	0.0853	"	"	"	"	"
Zinc	51.7	31.6	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.124	0.309	mg/kg dry	1	2594781	04/10/2024	04/10/2024	U
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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 - Dillard USX AB #03-14P

FL-SS07@4

4/5/2024 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404196-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.237	0.100	mg/L	1	B4D0906	04/09/2024	04/10/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D0817	04/08/2024	04/10/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	94.1 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D1015	04/10/2024	04/10/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Naphthalene	ND	0.00380	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

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 - Dillard USX AB #03-14P

FL-SS07@4

4/5/2024 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404196-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	131 %	70-130	B4D10 15	04/10/2024	04/10/2024	GC
Surrogate: Toluene-d8	107 %	70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	92.5 %	70-130	"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.21	0.499	meq/L	10	[CALC]	04/08/2024	04/10/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D1130	04/11/2024	04/13/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua

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 - Dillard USX AB #03-14P

FL-SS07@4

4/5/2024 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404196-02 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B4D1130	04/11/2024	04/13/2024	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.6 %	60-130	"	"	"
Surrogate: Anthracene-d10	93.7 %	60-130	"	"	"
Surrogate: Pyrene-d10	93.4 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	96.8 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.10	pH Units	1	B4D0811	04/08/2024	04/09/2024
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SAR by 20B Saturated Paste

SAR	0.282	0.0100	SAR	1	B4D0803	04/08/2024	04/10/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.301	0.00500	mmhos/cm	1	B4D0811	04/08/2024	04/09/2024
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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 - Dillard USX AB #03-14P

FL-SS07@4

4/5/2024 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404196-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.20	0.259	mg/kg	10	B4D0824	04/08/2024	04/09/2024
Barium	93.7	8.93	"	"	"	"	"
Cadmium	0.129	0.0893	"	"	"	"	"
Copper	ND	8.93	"	"	"	"	"
Lead	7.32	0.893	"	"	"	"	"
Nickel	7.20	0.893	"	"	"	"	"
Selenium	0.244	0.232	"	"	"	"	"
Silver	ND	0.0893	"	"	"	"	"
Zinc	33.5	33.1	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.114	0.285	mg/kg dry	1	2594781	04/10/2024	04/10/2024	U
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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 - Dillard USX AB #03-14P

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 B4D0817 - EPA 3550B										
Blank (B4D0817-BLK1)					Prepared: 04/08/2024 Analyzed: 04/10/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	23		"	24.9		91.8	50-150			

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 - Dillard USX AB #03-14P

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 B4D0817 - EPA 3550B										
LCS (B4D0817-BS1)					Prepared: 04/08/2024 Analyzed: 04/10/2024					
Diesel (C10-C28)	917	50.0	mg/kg	1000		91.7	70-130			
Residual Range Organics (C28-C40)	990	200	"	1000		99.0	70-130			
Surrogate: o-Terphenyl	49		"	49.8		99.0	50-150			

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 - Dillard USX AB #03-14P

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 B4D0817 - EPA 3550B										
Matrix Spike (B4D0817-MS1)		Source: Y404157-01			Prepared: 04/08/2024 Analyzed: 04/10/2024					
Diesel (C10-C28)	912	50.0	mg/kg	1000	ND	91.2	70-130			
Residual Range Organics (C28-C40)	983	200	"	1000	ND	98.3	70-130			
Surrogate: o-Terphenyl	42		"	49.8		84.9	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.

Jordan A. Bynon, Project Manager

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

Andrew Newberry
Project Number: [none]
Project: Noble - Dillard USX AB #03-14P

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 B4D0817 - EPA 3550B										
Matrix Spike Dup (B4D0817-MSD1)		Source: Y404157-01			Prepared: 04/08/2024 Analyzed: 04/10/2024					
Diesel (C10-C28)	913	50.0	mg/kg	1000	ND	91.3	70-130	0.0142	35	
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130	2.68	35	
Surrogate: o-Terphenyl	64		"	49.8		129	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Andrew Newberry
Project Number: [none]
Project: Noble - Dillard USX AB #03-14P

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 B4D1015 - EPA 5030 (soil)										
Blank (B4D1015-BLK1)					Prepared: 04/10/2024 Analyzed: 04/10/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.17		"	0.125	134	70-130				S-GC
Surrogate: Toluene-d8	0.13		"	0.125	102	70-130				
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	95.5	70-130				

Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: [none]
Project: Noble - Dillard USX AB #03-14P

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 B4D1015 - EPA 5030 (soil)										
LCS (B4D1015-BS1)					Prepared: 04/10/2024 Analyzed: 04/10/2024					
1,2,4-Trimethylbenzene	0.0979	0.00200	mg/kg	0.100		97.9	70-130			
1,3,5-Trimethylbenzene	0.0958	0.00200	"	0.100		95.8	70-130			
Benzene	0.0909	0.00200	"	0.100		90.9	70-130			
Ethylbenzene	0.0964	0.00200	"	0.100		96.4	70-130			
Naphthalene	0.114	0.00380	"	0.100		114	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
o-Xylene	0.103	0.00200	"	0.100		103	70-130			
m,p-Xylene	0.192	0.00400	"	0.200		95.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.17		"	0.125	133		70-130			S-GC
Surrogate: Toluene-d8	0.12		"	0.125	99.9		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	105		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 - Dillard USX AB #03-14P

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 B4D1015 - EPA 5030 (soil)										
Matrix Spike (B4D1015-MS1)		Source: Y404172-01			Prepared: 04/10/2024 Analyzed: 04/10/2024					
1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100	0.000520	106	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130			
Benzene	0.101	0.00200	"	0.100	ND	101	70-130			
Ethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130			
Naphthalene	0.120	0.00380	"	0.100	0.00276	117	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	0.205	0.00400	"	0.200	0.000720	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.16		"	0.125		131	70-130			S-GC
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	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 - Dillard USX AB #03-14P

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 B4D1015 - EPA 5030 (soil)										
Matrix Spike Dup (B4D1015-MSD1)	Source: Y404172-01				Prepared: 04/10/2024 Analyzed: 04/10/2024					
1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100	0.000520	111	70-130	4.51	20	
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100	ND	110	70-130	4.82	20	
Benzene	0.105	0.00200	"	0.100	ND	105	70-130	3.77	20	
Ethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130	4.75	20	
Naphthalene	0.137	0.00380	"	0.100	0.00276	134	70-130	13.4	20	QM-07
Toluene	0.115	0.00200	"	0.100	ND	115	70-130	4.15	20	
o-Xylene	0.118	0.00200	"	0.100	ND	118	70-130	5.43	20	
m,p-Xylene	0.215	0.00400	"	0.200	0.000720	107	70-130	4.66	20	
Surrogate: 1,2-Dichloroethane-d4	0.16		"	0.125		129	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Dillard USX AB #03-14P

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 B4D0824 - EPA 3050B

Blank (B4D0824-BLK1)

Prepared: 04/08/2024 Analyzed: 04/09/2024

Arsenic	ND	0.290	mg/kg
Barium	ND	10.0	"
Cadmium	ND	0.100	"
Copper	ND	10.0	"
Lead	ND	1.00	"
Nickel	ND	1.00	"
Selenium	ND	0.260	"
Silver	ND	0.100	"
Zinc	ND	37.0	"

LCS (B4D0824-BS1)

Prepared: 04/08/2024 Analyzed: 04/09/2024

Arsenic	5.20	0.290	mg/kg	5.00	104	80-120
Barium	503	10.0	"	500	101	80-120
Cadmium	5.54	0.100	"	5.00	111	80-120
Copper	55.9	10.0	"	50.0	112	80-120
Lead	5.22	1.00	"	5.00	104	80-120
Nickel	5.27	1.00	"	5.00	105	80-120
Selenium	10.1	0.260	"	9.50	106	80-120
Silver	5.85	0.100	"	5.00	117	80-120
Zinc	53.8	37.0	"	50.0	108	80-120

Matrix Spike (B4D0824-MS1)

Source: Y404211-01

Prepared: 04/08/2024 Analyzed: 04/09/2024

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Andrew Newberry
Project Number: [none]
Project: Noble - Dillard USX AB #03-14P

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 B4D0824 - EPA 3050B

Matrix Spike (B4D0824-MS1)		Source: Y404211-01			Prepared: 04/08/2024 Analyzed: 04/09/2024					
Arsenic	8.33	0.285	mg/kg	4.91	1.78	133	75-125			QM-07
Barium	525	9.82	"	491	144	77.6	75-125			
Cadmium	5.39	0.0982	"	4.91	0.166	106	75-125			
Copper	60.1	9.82	"	49.1	13.3	95.4	75-125			
Lead	11.1	0.982	"	4.91	6.66	90.0	75-125			
Nickel	12.2	0.982	"	4.91	18.1	NR	75-125			QM-07
Selenium	9.54	0.255	"	9.33	0.834	93.3	75-125			
Silver	5.25	0.0982	"	4.91	0.0302	106	75-125			
Zinc	82.1	36.3	"	49.1	50.8	63.7	75-125			QM-07
Matrix Spike Dup (B4D0824-MSD1)		Source: Y404211-01			Prepared: 04/08/2024 Analyzed: 04/09/2024					
Arsenic	8.64	0.249	mg/kg	4.30	1.78	160	75-125	3.62	20	QM-07
Barium	519	8.60	"	430	144	87.1	75-125	1.23	20	
Cadmium	5.10	0.0860	"	4.30	0.166	115	75-125	5.58	20	
Copper	56.8	8.60	"	43.0	13.3	101	75-125	5.54	20	
Lead	12.2	0.860	"	4.30	6.66	130	75-125	9.98	20	QM-07
Nickel	12.6	0.860	"	4.30	18.1	NR	75-125	3.31	20	QM-07
Selenium	9.03	0.224	"	8.17	0.834	100	75-125	5.49	20	
Silver	4.92	0.0860	"	4.30	0.0302	114	75-125	6.53	20	
Zinc	80.6	31.8	"	43.0	50.8	69.3	75-125	1.82	20	QM-07

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8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Dillard USX AB #03-14P

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 B4D1130 - EPA 3580

Blank (B4D1130-BLK1)

Prepared: 04/11/2024 Analyzed: 04/13/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua

Surrogate: Fluorene-d10	200		ug/kg	200		97.8	60-130
Surrogate: Anthracene-d10	220		"	200		111	60-130
Surrogate: Pyrene-d10	190		"	200		92.8	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.8	60-130

LCS (B4D1130-BS1)

Prepared: 04/11/2024 Analyzed: 04/13/2024

1-Methylnaphthalene	0.199	0.002	mg/kg	0.200		99.6	70-130
2-Methylnaphthalene	0.195	0.002	"	0.200		97.7	70-130
Acenaphthene	0.189	0.020	"	0.200		94.7	70-130
Anthracene	0.183	0.020	"	0.200		91.6	70-130

Origins Laboratory, Inc.



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Andrew Newberry
Project Number: [none]
Project: Noble - Dillard USX AB #03-14P

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 B4D1130 - EPA 3580

LCS (B4D1130-BS1)

Prepared: 04/11/2024 Analyzed: 04/13/2024

Benzo (a) anthracene	0.197	0.005	mg/kg	0.200		98.3	70-130
Benzo (a) pyrene	0.200	0.020	"	0.200		100	70-130
Benzo (b) fluoranthene	0.181	0.020	"	0.200		90.6	70-130
Benzo (g,h,i) perylene	0.200	0.020	"	0.200		100	70-130
Benzo (k) fluoranthene	0.184	0.020	"	0.200		92.0	70-130
Chrysene	0.182	0.020	"	0.200		91.0	70-130
Dibenz (a,h) anthracene	0.193	0.020	"	0.200		96.3	70-130
Fluoranthene	0.199	0.020	"	0.200		99.3	70-130
Fluorene	0.190	0.020	"	0.200		94.9	70-130
Indeno (1,2,3-cd) pyrene	0.230	0.020	"	0.200		115	70-130
Naphthalene	0.191	0.002	"	0.200		95.3	70-130
Phenanthrene	0.187	0.020	"	0.200		93.5	70-130
Pyrene	0.183	0.020	"	0.200		91.3	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		98.1	60-130
Surrogate: Anthracene-d10	210		"	200		103	60-130
Surrogate: Pyrene-d10	190		"	200		93.6	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130

Matrix Spike (B4D1130-MS1)

Source: Y404172-01

Prepared: 04/11/2024 Analyzed: 04/13/2024

1-Methylnaphthalene	0.217	0.002	mg/kg	0.200	ND	108	70-130
2-Methylnaphthalene	0.211	0.002	"	0.200	ND	106	70-130
Acenaphthene	0.204	0.020	"	0.200	ND	102	70-130
Anthracene	0.184	0.020	"	0.200	ND	91.9	70-130
Benzo (a) anthracene	0.207	0.005	"	0.200	ND	104	70-130
Benzo (a) pyrene	0.209	0.020	"	0.200	ND	105	70-130
Benzo (b) fluoranthene	0.208	0.020	"	0.200	0.0003	104	70-130
Benzo (g,h,i) perylene	0.213	0.020	"	0.200	ND	106	70-130

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8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Dillard USX AB #03-14P

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 B4D1130 - EPA 3580

Matrix Spike (B4D1130-MS1)		Source: Y404172-01			Prepared: 04/11/2024 Analyzed: 04/13/2024					
Benzo (k) fluoranthene	0.219	0.020	mg/kg	0.200	ND	109	70-130			
Chrysene	0.199	0.020	"	0.200	0.002	98.2	70-130			
Dibenz (a,h) anthracene	0.193	0.020	"	0.200	ND	96.7	70-130			
Fluoranthene	0.217	0.020	"	0.200	ND	108	70-130			
Fluorene	0.203	0.020	"	0.200	ND	102	70-130			
Indeno (1,2,3-cd) pyrene	0.219	0.020	"	0.200	ND	109	70-130			
Naphthalene	0.208	0.002	"	0.200	ND	104	70-130			
Phenanthrene	0.204	0.020	"	0.200	ND	102	70-130			
Pyrene	0.192	0.020	"	0.200	ND	95.9	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.9	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	180		"	200		91.6	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.7	60-130			

Matrix Spike Dup (B4D1130-MSD1)		Source: Y404172-01			Prepared: 04/11/2024 Analyzed: 04/13/2024					
1-Methylnaphthalene	0.185	0.002	mg/kg	0.200	ND	92.3	70-130	16.1	20	
2-Methylnaphthalene	0.181	0.002	"	0.200	ND	90.7	70-130	15.2	20	
Acenaphthene	0.175	0.020	"	0.200	ND	87.7	70-130	15.0	20	
Anthracene	0.168	0.020	"	0.200	ND	83.9	70-130	9.09	20	
Benzo (a) anthracene	0.200	0.005	"	0.200	ND	100	70-130	3.35	20	
Benzo (a) pyrene	0.179	0.020	"	0.200	ND	89.3	70-130	15.8	20	
Benzo (b) fluoranthene	0.178	0.020	"	0.200	0.0003	89.0	70-130	15.3	20	
Benzo (g,h,i) perylene	0.181	0.020	"	0.200	ND	90.4	70-130	16.3	20	
Benzo (k) fluoranthene	0.162	0.020	"	0.200	ND	81.1	70-130	29.8	20	QR-02
Chrysene	0.171	0.020	"	0.200	0.002	84.3	70-130	15.0	20	
Dibenz (a,h) anthracene	0.177	0.020	"	0.200	ND	88.6	70-130	8.76	20	
Fluoranthene	0.182	0.020	"	0.200	ND	91.2	70-130	17.1	20	

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Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Dillard USX AB #03-14P

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
Batch B4D1130 - EPA 3580										
Matrix Spike Dup (B4D1130-MSD1)			Source: Y404172-01		Prepared: 04/11/2024 Analyzed: 04/13/2024					
Fluorene	0.173	0.020	mg/kg	0.200	ND	86.5	70-130	16.0	20	
Indeno (1,2,3-cd) pyrene	0.195	0.020	"	0.200	ND	97.4	70-130	11.5	20	
Naphthalene	0.178	0.002	"	0.200	ND	88.8	70-130	15.8	20	
Phenanthrene	0.175	0.020	"	0.200	ND	87.6	70-130	15.1	20	
Pyrene	0.167	0.020	"	0.200	ND	83.3	70-130	14.1	20	
Surrogate: Fluorene-d10	200		ug/kg	200		98.2	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	180		"	200		91.6	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.7	60-130			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Dillard USX AB #03-14P

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 B4D0803 - Saturated Paste Metals

Blank (B4D0803-BLK1)

Prepared: 04/08/2024 Analyzed: 04/10/2024

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 (B4D0803-DUP1)

Source: Y404180-09

Prepared: 04/08/2024 Analyzed: 04/10/2024

Calcium PPM	6.62	10.0	mg/L	6.17	7.04	50
SAR	ND	0.0100	SAR	8.71		200
Magnesium PPM	2.24	10.0	mg/L	2.19	2.26	50
Sodium PPM	105	10.0	"	98.9	5.90	50

Batch B4D0906 - DTPA Sorbitol Preparation

Blank (B4D0906-BLK1)

Prepared: 04/09/2024 Analyzed: 04/10/2024

Boron	ND	0.100	mg/L
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Duplicate (B4D0906-DUP1)

Source: Y404189-01

Prepared: 04/09/2024 Analyzed: 04/10/2024

Boron	0.832	0.0989	mg/L	0.843	1.26	50
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Andrew Newberry
Project Number: [none]
Project: Noble - Dillard USX AB #03-14P

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4D0811 - Saturated Paste pH/EC										
Blank (B4D0811-BLK1)					Prepared: 04/08/2024 Analyzed: 04/09/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4D0811-DUP1)					Source: Y404180-09 Prepared: 04/08/2024 Analyzed: 04/09/2024					
Specific Conductance (EC)	0.574	0.00500	mmhos/cm		0.583			1.68	25	
pH	8.74		pH Units		8.70			0.459	25	

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8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Dillard USX AB #03-14P

Total Metals by 7196A - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2594781 - SW846 3060A										
BLANK (1205699478-BLK)					Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	ND	0.376	mg/kg				-			U
LCS (1205699479-BKS)					Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	3.77	0.383	mg/kg	3.83		98.5	80-120			
DUP (1205699480 D)					Source: 662211001 Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	ND	0.414	mg/kg dry		<0.166		0-50	N/A	50	U
MS (1205699481 S)					Source: 662211001 Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	2.89	0.414	mg/kg dry	4.14	<0.166	67.4	75-125			
DUP (1205699482 D)					Source: 662218005 Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	ND	0.395	mg/kg dry		0.179		0-50	N/A	50	U
MS (1205699483 S)					Source: 662218005 Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	0.791	0.395	mg/kg dry	3.95	0.179	15.5	75-125			
ILCS (1205699484-ILCS)					Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	7.64	0.373	mg/kg	7.62		100	80-120			

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8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Dillard USX AB #03-14P

Notes and Definitions

- Ua Sample is Non-Detect.
- U Result not detected above the detection limit
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

All soil results are reported 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.

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Jordan A. Bynon, Project Manager