



FLOWLINE ABANDONMENT FORM

SITE NAME: UNI UPR C25-03							DATE: 7/5/2023	REM. PROJECT #: 22188	WEATHER: High 60s, cloudy		
SITE DIRECTIONS: CR40 & 57 proceed to booth hay yard, NE around edge of center pivot, NE 0.5, N 200ft thru gate							CLIENT: Noble				
LEGALS AND LAT/LONG: 40.290085 / -104.50388							TASMAN PERSONNEL: Elyse Hossink				
SOIL TYPES: Well Graded Sand - SW							SURFACE GRADIENT: Southeast				
SOIL SAMPLING							FACILITY INFRASTRUCTURE				
Date/Time	Soil Sample ID	PID (ppm)	Visual	Olfactory	Photo?	Grab or Lab Sample?	EQUIPMENT		Quantity		
							Above Ground Storage Tank (AST)				
7/5/2023 13:55	FL01-A@2.5	9.1	HC Staining	No Odor	Yes	Lab	Buried or Partially Buried Vessel				
7/5/2023 15:15	FL01-B@3.5'	0.6	No Staining	No Odor	Yes	Lab	Separator				
							Emission Control Device (ECD)				
							Dump Line				
							Wellhead				
							Flowline		1		
							Other:				
							Soil Loads Removed				
							IMPACTED SOIL IDENTIFIED?				
							ESTIMATED VOLUME OF IMPACTS:				
							Date	Number	CY		
							Total Removed		0	0	
							Disposal Facility:				
							Groundwater Recovery				
							DATE GW ENCOUNTERED:			DEPTH:	
							GROUNDWATER IN CONTACT WITH IMPACTED SOIL?				
							LNAPL OR SHEEN OBSERVED ON GW?				
GROUNDWATER SAMPLING							Date	BBLs			
Date/Time	Groundwater Sample ID	Depth Collected	Turbid?	Sheen?	Odor?	Photo?					
							Total Removed		0		
							Disposal Facility:				

Flowline Closure Checklist

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

Additional Attachments:		Tank Battery Closure		Wellhead Closure		Pit Closure		Partially Buried Vault Closure
-------------------------	--	----------------------	--	------------------	--	-------------	--	--------------------------------

Site Name & COGCC Facility Number: UNI UPR 25-03	Date: 7/5/2023	Remediation Project #: 22188
--	----------------	------------------------------

Associated Wells:	Age of Site:	Number of Photos Attached: 5
-------------------	--------------	------------------------------

Starting point: (GPS coordinates and descriptions)
40.2888 -104.501439

End point: (GPS coordinates and descriptions)
40.290085 -104.50388

USCS Soil Type: SW	Estimated Depth to Groundwater: >3.5'
--------------------	---------------------------------------

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	Oil / Gas / Water			
Depth	3.5 ft			
Age				
Length	1,410			
Construction Material	steel			
Were flowlines pulled?	ABIP			
Visual Integrity of lines	good			
Visual impacts if trenched	none observed			
PID Readings if trenched	0.6 - 9.1			
Sample taken? Location/Sample ID#	yes, see below			
Photo Number(s)	1 - 5			

Other observations regarding on location flowlines:
Samples were taken at the wellhead (FL01-A@2.5') and at the separator (FL01-B@3.5'). Both samples were submitted to the lab for analysis.
Flowline was ABIP to be pulled at a later date

Summary

Was impacted soil identified? No	
Total number of samples field screened: 2	Total number of samples collected: 2
Highest PID Reading: 9.1	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? No	
Measured depth to groundwater:	Was remedial groundwater removal conducted?
Date Groundwater was encountered:	Commencement date of removal:
Sheen on groundwater?	Volume of groundwater removed prior to sampling:
Free product observed?	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:	

Photographic Log



Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:	
Notes/Conditions: Site photo of Facility			

Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:	
Notes/Conditions: Site photo - from wellhead, facility in green rectangle			

Photographic Log



Equipment ID: FL01-A@2.5'		Equipment Type: Flowline		Equipment ID:		Equipment Type:	
Material: Steel	Volume:	Contents: Oil/Gas/Water		Material:	Volume:	Contents:	
Notes/Conditions:				Notes/Conditions: location of UNI UPR C25-03, UNI UPR C25-04, UNI UPR 25-05 and UNI UPR C25-06 flowlines at common separator labeled 3-6 respectively.			

Photographic Log



Equipment ID: FL01-B@3.5'		Equipment Type:		Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:		Material:	Volume:	Contents:	
Notes/Conditions:				Notes/Conditions:			

Flowline Closure Checklist

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

Additional Attachments:		Tank Battery Closure		Wellhead Closure		Pit Closure		Partially Buried Vault Closure
-------------------------	--	----------------------	--	------------------	--	-------------	--	--------------------------------

Site Name & ECMC Facility Number: UNIUPR 25-03	Date: 2/12/2024	Remediation Project #: 22188
--	-----------------	------------------------------

Associated Wells:	Age of Site:	Number of Photos Attached: 7
-------------------	--------------	------------------------------

Starting point: (GPS coordinates and descriptions)
40.2888, -104.501439

End point: (GPS coordinates and descriptions)
40.290085, -104.50388

USCS Soil Type: SW	Estimated Depth to Groundwater:
--------------------	---------------------------------

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)

Flowlines

Flowline type				
Depth	3			
Age				
Length	1,410 ft			
Construction Material	Steel			
Were flowlines pulled?	Yes			
Visual Integrity of lines	Good			
Visual impacts if trenched	None			
PID Readings if trenched	0.2			
Sample taken? Location/Sample ID#	FL01-C-FL01-I			
Photo Number(s)				

Other observations regarding on location flowlines:

Summary

Was impacted soil identified?

Total number of samples field screened: 3	Total number of samples collected: 7
---	--------------------------------------

Highest PID Reading: 0.2	Total number of samples submitted to lab for analysis: 4
--------------------------	--

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?

Measured depth to groundwater:	Was remedial groundwater removal conducted?
--------------------------------	---

Date Groundwater was encountered:	Commencement date of removal:
-----------------------------------	-------------------------------

Sheen on groundwater?	Volume of groundwater removed prior to sampling:
-----------------------	--

Free product observed?	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:	
--	--

Photographic Log



Equipment ID: FL01-C @ 3'		Equipment Type:		Equipment ID: FL01-D @ 3'		Equipment Type:	
Material:	Volume:	Contents:		Material:	Volume:	Contents:	
Notes/Conditions:				Notes/Conditions:			

Photographic Log



Equipment ID: FL01-E @ 3'		Equipment Type:		Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:		Material:	Volume:	Contents:	
Notes/Conditions:				Notes/Conditions:			

Photographic Log



Equipment ID: FL01-G @ 3'		Equipment Type:		Equipment ID: FL01-H @ 3'		Equipment Type:	
Material:	Volume:	Contents:		Material:	Volume:	Contents:	
Notes/Conditions:				Notes/Conditions:			

Photographic Log



Equipment ID: FL01-1@3'		Equipment Type:		Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:		Material:	Volume:	Contents:	
Notes/Conditions:				Notes/Conditions:			

TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE ENERGY, INC. - 100322
UNI UPR C25-03, WELD COUNTY, COLORADO
REM # 22188



Sample ID	Sample Date	Depth (ft. bgs)	GPS Data ⁽¹⁾		PDOP Value	VOC Concentration ⁽²⁾ (ppm)
			Latitude/Longitude			
FL01-A@2.5'	7/5/2023	2.5	40.288786	-104.501418	1.8	9.1
FL01-B@3.5'	7/5/2023	3.5	40.290045	-104.503854	0.8	0.6
FL01-C@3'	2/12/2024	3	40.288968	-104.501476	0.9	0.2
FL01-D@3'	2/12/2024	3	40.289279	-104.501753	0.9	0.1
FL01-E@3'	2/12/2024	3	40.289425	-104.501961	0.8	0.1
FL01-F@3'	2/12/2024	3	40.289531	-104.502553	0.8	0.1
FL01-G@3'	2/12/2024	3	40.289502	-104.503064	0.8	0.1
FL01-H@3'	2/12/2024	3	40.289401	-104.503550	0.7	0.1
FL01-I@3'*	2/13/2024	3	40.289474	-104.503752	NC	0.0

Notes:

1. Global Positioning System (GPS) data is provided in decimal degrees using North American Datum (NAD) 83 UTM Zone 13 North.

2. Volatile organic compound (VOC) concentrations are measured in the field using a photoionization detector (PID).

PDOP = Position Dilution of Precision

ppm = Parts per million

ft. = Feet

bgs = Below ground surface

NC = Data not collected

* = GPS coordinates not collected in the field

TABLE 2
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY, INC. 100322
UNI UPR C25-03, WELD COUNTY, COLORADO
REM # 22188



Sample ID	Sample Date	Depth (ft. bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500**		
FL01-A@2.5'	7/5/2023	2.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
FL01-B@3.5'	7/5/2023	3.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
FL01-D@3'	2/12/2024	3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
FL01-E@3'	2/12/2024	3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
FL01-H@3'	2/12/2024	3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
FL01-I@3'	2/13/2024	3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50

Notes:

ECMC = Energy & Carbon Management Commission

(<) = Analytical result is less than the indicated laboratory reporting limit.

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

TPH-ORO = Total petroleum hydrocarbons - oil range organics

mg/kg = Milligrams per kilogram

ft. = Feet

bgs = Below ground surface

** Summation of GRO+DRO+ORO must be less than 500 mg/kg.

TABLE 3
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY, INC. 100322
UNI UPR C25-03, WELD COUNTY, COLORADO
REM # 22188



Sample ID	Sample Date	Depth (ft. bgs)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
FL01-A@2.5'	7/5/2023	2.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
FL01-B@3.5'	7/5/2023	3.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
FL01-D@3'	2/12/2024	3	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
FL01-E@3'	2/12/2024	3	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
FL01-H@3'	2/12/2024	3	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
FL01-I@3'	2/13/2024	3	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Notes:

ECMC = Colorado Energy & Carbon Management Commission
(<) = Analytical result is less than the indicated laboratory reporting limit.
ft. = Feet
bgs = Below ground surface
mg/kg = Milligrams per kilogram

TABLE 4
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY, INC. 100322
UNI UPR C25-03, WELD COUNTY, COLORADO
REM # 22188



Sample ID	Sample Date	Depth (ft. bgs)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
FL01-A@2.5'	7/5/2023	2.5	7.03	0.348	0.793	0.285
FL01-B@3.5'	7/5/2023	3.5	4.94	0.177	0.0617	0.155
FL01-D@3'	2/12/2024	3	8.59	0.384	1.38	<2.00
FL01-E@3'	2/12/2024	3	8.78	0.290	1.48	<2.00
FL01-H@3'	2/12/2024	3	7.72	0.258	1.29	<2.00
FL01-I@3'	2/13/2024	3	8.30	0.326	0.938	<2.00

Notes:

ECMC = Colorado Energy & Carbon Management Commission

EC = Electrical conductivity

SAR = Sodium adsorption ratio

mmhos/cm = millimhos per centimeter

mg/L = milligram per liter

(<) = Analytical result is less than the indicated laboratory reporting limit.

ft. = Feet

bgs = Below ground surface

Bold faced values exceed the ECMC Table 915-1 limit(s) and native background concentrations.

Brown highlighted soil analytical values indicate a regulatory exceedance.

TABLE 5
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE ENERGY, INC. 100322
UNI UPR C25-03, WELD COUNTY, COLORADO
REM # 22188



Sample ID	Sample Date	Depth (ft. bgs)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) ^[1] (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
FL01-A@2.5'	7/5/2023	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL01-B@3.5'	7/5/2023	3.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL01-D@3'	2/12/2024	3	1.27	32.1	<0.200	<0.30	2.56	2.79	2.53	<0.260	<0.0200	11.4
FL01-E@3'	2/12/2024	3	1.23	34.6	<0.200	<0.30	2.33	2.84	2.52	<0.260	<0.0200	10.8
FL01-H@3'	2/12/2024	3	1.47	39.5	<0.200	<0.30	2.52	3.07	2.93	<0.260	<0.0200	12.5
FL01-I@3'	2/13/2024	3	1.29	37.2	<0.200	<0.080*	3.05	3.69	2.74	<0.260	<0.0200	12.4

Notes:

1. Compound falls within ECMC Table 915-1 Footnote 9.

* = Constituent analyzed by Elevation Diagnostics

ECMC = Energy & Carbon Management Commission

(<) = Analytical result is less than the indicated laboratory reporting limit.

mg/kg = Milligrams per kilogram

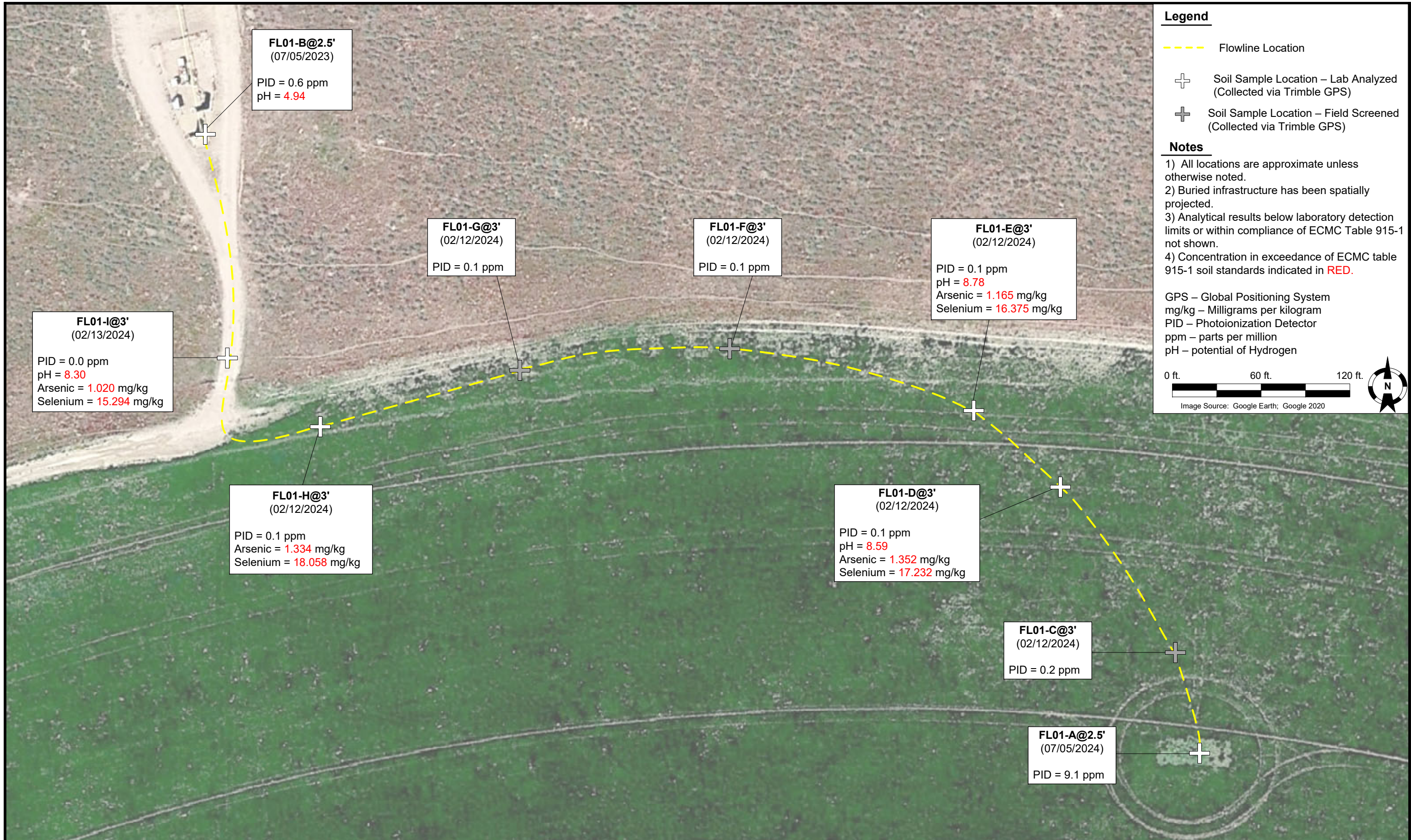
ft. = Feet

bgs = Below ground surface

NA = Constituent not analyzed

Bold faced values exceed the ECMC Table 915-1 limit(s) and native background concentrations.

Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL).



DATE: 04/03/2024

DESIGNED BY: JW

DRAWN BY: EH

TASMAN Tasman Geosciences, Inc.
 6855 W 119th Avenue
 Broomfield, CO 80020

Noble Energy, Inc. – DJ Basin
UNI UPR C25-3
 NENW, Section 25, Township 4 North, Range 64 West
 Weld County, Colorado

Flowline Closure & Soil
 Analytical Results Map
 (07/05/2023, 02/12/2024, &
 02/13/2024)

FIGURE
 1