Facility Closure Investigation and Environmental Summary

NEI C18-32D Wellhead

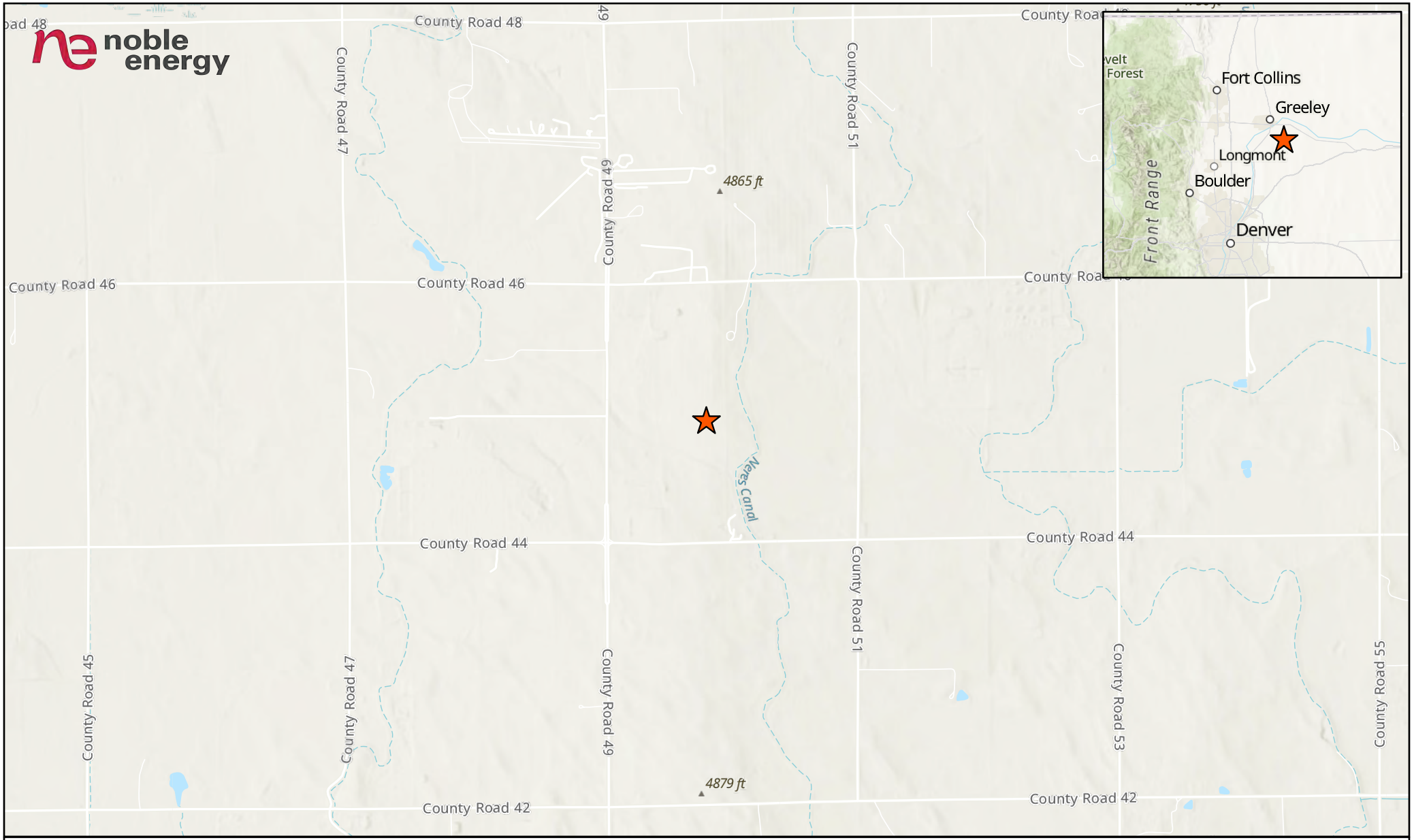
ECMC Remediation Project #30474

Weld County, Colorado

Attachments:

Figure 1 – General Location Map
Figure 2 – Wellhead Soil Sample and Field Screening Locations
Table 1 – Soil Sample and Field Screening Location Information
Table 2 – Soil Analytical Results Summary Table – Volatile Organics
Table 3 – Soil Analytical Results Summary Table – PAHs
Table 4 – Soil Analytical Results Summary Table – Soil Suitability
Table 5 – Soil Analytical Results Summary Table – Metals
Attachment A: Photographic Log
Attachment B: Facility Closure Checklists

FIGURES



LEGEND

★ Site Location

0 0.5 1 Miles

1 inch = 0.5 Mile

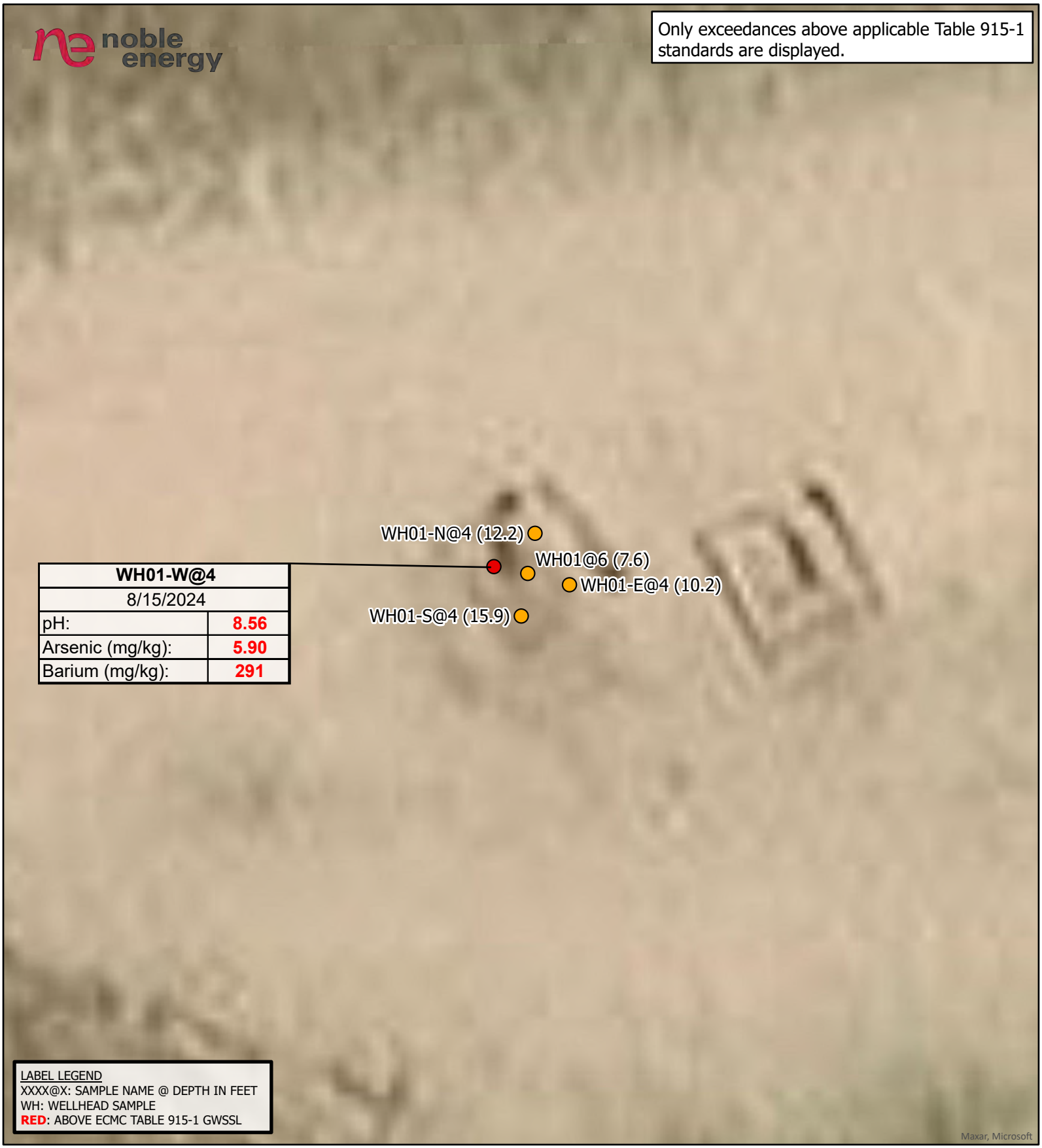
N W E S

Project No:	024-435
Map By:	JW
Date:	10/11/2024

NEI C18-32D WELLHEAD
GENERAL LOCATION MAP
NOBLE ENERGY
NE 1/4 SW 1/4 SECTION 18
T4N R64W, 6TH PM
WELD COUNTY, COLORADO

ENTRADA CONSULTING GROUP
1843 Sunlight Dr.
Longmont, CO 80504
303.378.4036

Figure
1



Legend

Soil Sample Screening Location

NOTES:
- Sample Label (PID Result in ppm)
- ppm = parts per million
- PID = photoionization detector

0 5 10 Feet

1 inch = 10 Feet

N W E S

Project No:	024-435
Map By:	JW
Date:	10/11/2024

NEI C18-32D WELLHEAD
SOIL SAMPLE AND FIELD SCREENING LOCATIONS
NOBLE ENERGY
NE 1/4 SW 1/4 SECTION 18
T4N R64W, 6TH PM
WELD COUNTY, COLORADO

ENTRADA CONSULTING GROUP
1843 Sunlight Drive
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Figure 2

TABLES

TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE 100322
NEI C18-32D WELLHEAD, WELD COUNTY, COLORADO
REM # 30474

Sample ID	Sample Date	Depth (ft-bgs)	GPS Data Latitude/Longitude		VOC Concentration (ppm)
WH01@6	8/15/2024	6	40.311880	-104.594848	7.6
WH01-N@4	8/15/2024	4	40.311886	-104.594846	12.2
WH01-S@4	8/15/2024	4	40.311877	-104.594850	15.9
WH01-W@4	8/15/2024	4	40.311882	-104.594853	23.9
WH01-E@4	8/15/2024	4	40.311879	-104.594844	10.2

1. Global Positioning System (GPS) data is provided in decimal degrees using North American Datum (NAD) 83 UTMZone 13 North.
2. Volatile organic compound (VOC) concentrations are measured in the field using a photoionization detector (PID).
ppm - Parts per million
ft-bgs - feet below ground surface

TABLE 2
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE 100322
NEI C18-32D WELLHEAD, WELD COUNTY, COLORADO
REM # 30474

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**		
WH01-W@4	8/15/2024	4	*<0.00200*	*<0.00200*	*<0.00200*	*<0.00200*	*<0.00200*	*<0.00200*	*<0.002*	279.80	*<0.200*	72.8	207

1. Grey highlighted soil analytical values indicate result is less than laboratory reporting limit
2. ** Summation of GRO+DRO+ORO must be less than 500 mg/kg
ft-bgs - feet below ground surface
mg/kg - milligrams per kilogram

			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
			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
WH01-W@4	8/15/2024	4	*<0.020*	*<0.020*	*<0.005*	*<0.020*	*0.020*									