

24 June 2025

HSR-Hoffman #3-24

Remediation #27990

Operator # NOBLE 100322

This Supplemental Site Investigation Report has been prepared by Environmental Resources Management, Inc. (ERM), on behalf of Noble Energy, Inc. (Noble), for the HSR-Hoffman #3-24 Site (Remediation # 27990) Site.

BACKGROUND

Confirmatory sampling conducted in January 2024 as part of the initial flowline closure activities at the HSR-Hoffman #3-24 Site, revealed exceedances of the *Colorado Energy and Carbon Management Commission (ECMC)* Table 915-1 regulatory standards for soil quality. Closure activities are documented in the Site Investigation and Remediation Work Plan (Supplemental Form 27), submitted to the ECMC on 4/1/2024, (Document #403736937).

Soil samples collected during the initial closure activities indicated the following exceedances of ECMC Table 915-1 standards:

Flowline Sample(s):

- Samples FL01-A@2' and FL01-I@2' exceeded the ECMC Table 915-1 regulatory range for pH of 6.0–8.3 Standard Units (SUs).
- Samples FL01-A@2', FL01-H@2', and FL01-I@2' exceeded the Residential Soil Screening Level (SSL) and Groundwater Protection SSL for Arsenic.
- Sample FL01-H@2' exceeded the Groundwater Protection SSL for Barium.

These exceedances necessitated further investigation to delineate soil quality at the site and assess its relationship to background conditions.

On September 23, 2024, and January 21 through 22, 2025, ERM conducted shallow soil delineation using a hand auger along the former HSR-Hoffman #3-24 flowline as shown in **Figure 1**. Results from September 2024/January 2025 supplemental site investigation activities are summarized in the following sections.

SITE INVESTIGATION ACTIVITIES

SOIL SAMPLING

In September 2024, ERM advanced a total of 4 soil borings (FL-03-N, E, S, and W) to delineate the exceedance identified at FL01-I@2'. These samples were analyzed for arsenic and pH. The Operator elected to re-sample this location for the full extent of ECMC Table 915-1.

In January 2025, ERM advanced a total of 12 delineation soil borings associated with the former flowline, to assess the previously identified pH and metals exceedances. Four delineation soil borings were installed surrounding each the three previously collected samples which identified exceedances (FL01-A@2', FL01-H@2' and FL01-I@2').

Soil samples from the soil borings surrounding FL01-A@2' (FL-01-N,E,S,W) and FL01-H@2'(FL-02-N,E,S,W) were collected at 2-, and 4-feet below ground surface (bgs) intervals at each respective boring location. Soil samples from the soil borings surrounding FL01-I@2' (FL-03-N,E,S,W) were collected at 1, 2-, and 4-feet bgs intervals at each respective boring location. All flowline delineation samples were sampled for the full extent of ECMC Table 915-1 organics, metals, and SSR compounds.

ERM advanced 7 background soil borings (BG-01 through BG-07) to serve as nearby, non-impacted sampling locations to evaluate background concentrations for the respective target analytes with previous exceedances. Samples were collected at 2-feet bgs at all background sampling locations. Background samples were sampled for ECMC Table 915-1 metals, and SSR compounds.

A total of 47 soil samples, comprising 40 delineation samples and 7 background samples, were submitted to Summit Scientific Laboratory, an accredited facility located in Golden, Colorado, for analysis.

RESULTS

The September 2024/ January 2025 site investigation results are detailed in **Table 1** through **Table 4** with sampling locations and associated analytical data depicted in **Figure 1**. The complete encrypted analytical report from Summit Scientific Laboratory will be included as an attachment with the respective Form 27 submittal of this report.

Upon receipt of laboratory analytical results, data were reviewed for general quality control and quality assurance measures. The following key observations and data qualifiers were noted:

- Soil samples collected in September 2024 were submitted to the lab on 09/23/24. The soil samples temperatures measured at the time of laboratory receipt were 6.2 degrees Celsius (°C), which is outside the acceptable range of 0 to 6°C but were delivered same day to the lab and actively cooling on ice when delivered.
- Soil samples collected in January 2025 were submitted to the lab on 1/22/25. The soil samples temperatures measured at the time of laboratory receipt were 5.8 degrees Celsius (°C), which is inside the acceptable range of 0 to 6°C.
- All sample bottles were received intact, and samples analyzed within their respective hold times.
- No data qualifier codes were flagged in the analytical results.

BACKGROUND SAMPLES

The following background samples exceed ECMC Table 915-1 for:

- pH range of 6 – 8.3 Standard Units (SU) for background samples BG-01, BG-03, BG-04 with results ranging from 8.36 to 8.84 SU.
- Arsenic Residential Soil Screening Level (RSSL) standard of 0.68 milligrams per kilograms (mg/kg) for all background samples, with results ranging from 1.02 to 2.42 mg/kg.
- Barium Groundwater Soil Screening Level (GSSL) standard of 82 mg/kg at samples BG-03 and BG-07 with results ranging between 128 – 177 mg/kg.
- Cadmium GSSL standard of 0.38 mg/kg at sample BG-07.
- Selenium GSSL standard of 0.26 mg/kg at sample BG-07.

FLOWLINE DELINEATION SAMPLES

The following flowline delineation samples exceed ECMC Table 915-1 for:

- pH range of 6 – 8.3 Standard Units (SU) in samples collected at FL-01-N, FL-01-E, FL-01-S, FL-01-W, FL-02-N, FL-02-S, FL-03-E, FL-03-N, FL-03-S, with values ranging from 8.4 to 9.31 SU.
- Electrical Conductivity (EC) standard of 4 mmhos/cm in samples collected at FL-02-E, FL-02-N, FL-02-S, and FL-02-W, with values ranging from 4.1 to 11.9 mmhos/cm.
- Sodium Adsorption Ratio (SAR) standard of 6 in samples collected at FL-02-E, FL-02-N, FL-02-S, FL-02-W, FL-03-E, FL-03-N, with values ranging from 6.28 to 12.3.
- Boron standard of 2 mg/L in samples collected from FL-02-E, FL-02-N, FL-02-S, FL-02-W, FL-03-N, FL-03-S, FL-03-W, with values ranging from 2.11 to 4.36 mg/L.
- Arsenic Residential RSSL standard of 0.68 milligrams per kilograms mg/kg for flowline delineation samples, with results ranging from 1.02 to 2.42 mg/kg
- Barium GSSL standard of 82 mg/kg in samples collected at FL-02-N, FL-02-E, FL-02-S, FL-02-W, FL-03-E, and FL-03-S, with concentrations ranging from 83.6 to 307 mg/kg.
- Cadmium GSSL standard of 0.38 mg/kg in samples collected at FL-02-N, FL-02-S, and FL-02-W, with concentrations ranging from 0.386 to 1.08 mg/kg.
- Selenium GSSL standard of 0.26 mg/kg in samples collected at FL-02-N, FL-02-E, FL-02-S, FL-02-W, with concentrations ranging from 0.322 to 1.35 mg/kg

NEXT STEPS

The analytical results for the delineation soil samples associated with the HSR-Hoffman #3-24 flowline exceed the ECMC Table 915-1 soil standards for metals and/or SSR compounds below the root zone. Operator is in the process of evaluating the exceedances and background samples as applicable to closure as related to Soil Reclamation.



TABLES

Table 1
SUMMARY OF SOIL SUITABILITY RECLAMATION IN SOIL CHEMISTRY DATA
OPERATOR (NOBLE 100322 OR PDC 69175)
HSR-HOFFMAN 3-24, Weld COUNTY, Colorado
REM# 27990

Analyte			Boron	EC	pH	SAR
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			2	4	6-8.3	6
Maximum Background Concentration			2	0.91	8.84	4.44
Sample ID	Sample Date	Depth (ft)				
BG-01	01/21/2025	2 ft	< 2.00	0.0712	8.84	0.502
BG-02	01/21/2025	2 ft	< 2.00	0.0537	7.36	0.0684
BG-03	01/21/2025	2 ft	< 2.00	0.152	8.60	0.0977
BG-04	01/21/2025	2 ft	< 2.00	0.910	8.36	4.44
BG-05	01/21/2025	2 ft	< 2.00	0.356	8.29	1.88
BG-06	01/21/2025	2 ft	< 2.00	0.210	7.99	0.304
BG-07	01/21/2025	2 ft	< 2.00	0.370	8.25	1.53
FL-01-E	01/21/2025	2 ft	< 2.00	0.0741	8.27	0.0654
FL-01-E	01/21/2025	4 ft	< 2.00	0.181	8.82	0.434
FL-01-N	01/21/2025	2 ft	< 2.00	0.0989	8.77	0.0516
FL-01-N	01/21/2025	4 ft	< 2.00	0.253	9.31	0.883
FL-01-S	01/21/2025	2 ft	< 2.00	0.0422	8.49	0.0462
FL-01-S	01/21/2025	4 ft	< 2.00	0.346	8.83	1.46
FL-01-W	01/21/2025	2 ft	< 2.00	0.0473	8.09	0.0387
FL-01-W	01/21/2025	4 ft	< 2.00	0.127	8.75	0.0236
FL-02-E	01/22/2025	2 ft	< 2.00	11.9	8.17	10.4
FL-02-E	01/22/2025	4 ft	2.97	8.42	8.22	10.6
FL-02-N	01/22/2025	2 ft	< 2.00	11.3	8.44	12.3
FL-02-N	01/22/2025	4 ft	2.36	6.32	8.14	6.31
FL-02-S	01/22/2025	2 ft	< 2.00	0.396	8.50	0.335
FL-02-S	01/22/2025	4 ft	4.06	4.32	8.24	6.28
FL-02-W	01/22/2025	2 ft	< 2.00	4.10	8.01	2.15
FL-02-W	01/22/2025	4 ft	4.36	5.46	8.29	6.49
FL-03-E	09/23/2024	1 ft	NA	NA	7.9	NA
FL-03-E	09/23/2024	2 ft	NA	NA	8.1	NA
FL-03-E	09/23/2024	4 ft	NA	NA	8.3	NA
FL-03-E	01/22/2025	1 ft	< 2.00	0.254	8.26	0.539
FL-03-E	01/22/2025	2 ft	< 2.00	1.01	8.53	8.20
FL-03-E	01/22/2025	4 ft	< 2.00	0.392	8.99	1.12
FL-03-N	09/23/2024	1 ft	NA	NA	8.6	NA
FL-03-N	09/23/2024	2 ft	NA	NA	8.6	NA
FL-03-N	09/23/2024	4 ft	NA	NA	8.7	NA
FL-03-N	01/22/2025	1 ft	< 2.00	0.419	8.75	0.931
FL-03-N	01/22/2025	2 ft	2.11	1.92	8.26	7.42
FL-03-N	01/22/2025	4 ft	< 2.00	1.08	8.49	5.25
FL-03-S	09/23/2024	1 ft	NA	NA	8.7	NA
FL-03-S	09/23/2024	2 ft	NA	NA	8.2	NA
FL-03-S	09/23/2024	4 ft	NA	NA	8.4	NA
FL-03-S	01/22/2025	1 ft	2.49	0.241	8.66	0.279
FL-03-S	01/22/2025	2 ft	3.80	2.32	7.99	4.50
FL-03-S	01/22/2025	4 ft	< 2.00	2.76	7.01	3.18
FL-03-W	09/23/2024	1 ft	NA	NA	7.8	NA
FL-03-W	09/23/2024	2 ft	NA	NA	8.2	NA
FL-03-W	09/23/2024	4 ft	NA	NA	8.2	NA
FL-03-W	01/22/2025	1 ft	< 2.00	0.151	8.24	0.149
FL-03-W	01/22/2025	2 ft	2.63	2.65	7.84	2.14
FL-03-W	01/22/2025	4 ft	< 2.00	1.19	8.13	2.29

Notes:
mg/L = milligrams per liter
mmhos/cm = milliohms (mmhos) per centimeter
NA = Not Applicable
CO-ECMC-RES-SO = ECMC Table 915-1 Limits Residential Soil Screening Level
NA = not applicable
SAR = Sodium Adsorption Ratio
CO-ECMC = Colorado Energy and Carbon Management Commission
< = Compound not detected at concentrations above the laboratory reporting detection limit.
The laboratory reporting detection limit is shown.
Bold = detected
Bold and blue analytical result values exceed the ECMC Table 915-1 limit(s)

Table 2
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
OPERATOR (NOBLE 100322 OR PDC 69175)
HSR-HOFFMAN 3-24, Weld COUNTY, Colorado
REM# 27990

Analyte			Arsenic	Barium	Cadmium	Chromium (VI)	Copper	Lead	Nickel	Selenium	Silver	Zinc
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
Maximum Background Concentration			2.42	177	0.42	0.3	3.98	10.8	4.42	0.283	0.0631	13.4
Sample ID	Sample Date	Depth (ft)										
BG-01	01/21/2025	2 ft	1.05	74.0	< 0.200	< 0.30	2.50	7.22	2.88	< 0.260	0.0514	10.2
BG-02	01/21/2025	2 ft	0.701	50.2	< 0.200	< 0.30	1.76	4.22	1.79	< 0.260	0.0248	7.49
BG-03	01/21/2025	2 ft	1.26	128	0.222	< 0.30	2.63	7.63	3.21	< 0.260	0.0448	9.36
BG-04	01/21/2025	2 ft	0.994	71.0	< 0.200	< 0.30	2.49	6.66	2.92	< 0.260	0.0340	8.75
BG-05	01/21/2025	2 ft	1.02	75.7	< 0.200	< 0.30	2.43	6.39	2.67	< 0.260	0.0341	10.6
BG-06	01/21/2025	2 ft	1.27	64.2	< 0.200	< 0.30	2.15	6.19	2.74	< 0.260	0.0391	9.37
BG-07	01/21/2025	2 ft	2.42	177	0.420	< 0.30	3.98	10.8	4.42	0.283	0.0631	13.4
FL-01-E	01/21/2025	2 ft	0.739	81.1	< 0.200	< 0.30	2.22	5.98	2.23	< 0.260	0.0294	8.33
FL-01-E	01/21/2025	4 ft	0.857	56.6	< 0.200	< 0.30	1.46	3.87	1.86	< 0.260	< 0.0200	6.37
FL-01-N	01/21/2025	2 ft	0.754	56.4	< 0.200	< 0.30	1.75	4.79	2.00	< 0.260	0.0213	7.03
FL-01-N	01/21/2025	4 ft	0.837	50.1	< 0.200	< 0.30	1.90	4.39	2.24	< 0.260	0.0223	10.1
FL-01-S	01/21/2025	2 ft	0.815	77.4	< 0.200	< 0.30	1.72	6.08	2.62	< 0.260	0.0526	7.73
FL-01-S	01/21/2025	4 ft	0.899	51.4	< 0.200	< 0.30	1.38	3.98	1.61	< 0.260	< 0.0200	6.25
FL-01-W	01/21/2025	2 ft	0.803	56.5	< 0.200	< 0.30	1.74	4.81	2.08	< 0.260	0.0365	7.58
FL-01-W	01/21/2025	4 ft	0.998	46.1	< 0.200	< 0.30	1.58	3.89	1.78	< 0.260	0.0251	6.55
FL-02-E	01/22/2025	2 ft	1.51	175	0.335	< 0.30	3.13	8.96	3.97	0.925	0.0432	12.5
FL-02-E	01/22/2025	4 ft	1.55	200	0.282	< 0.30	3.43	8.75	4.12	0.322	0.0317	12.8
FL-02-N	01/22/2025	2 ft	1.42	124	0.294	< 0.30	2.97	9.20	3.72	0.710	0.0284	11.9
FL-02-N	01/22/2025	4 ft	3.45	142	0.600	< 0.30	3.84	12.0	5.00	0.694	0.0559	15.8
FL-02-S	01/22/2025	2 ft	5.17	307	0.386	< 0.30	7.84	12.3	9.30	< 0.260	0.0541	51.8
FL-02-S	01/22/2025	4 ft	5.84	140	0.471	< 0.30	7.92	11.8	8.45	0.848	0.0521	47.2
FL-02-W	01/22/2025	2 ft	4.10	44.3	1.08	< 0.30	14.0	20.7	18.5	1.35	0.0396	177
FL-02-W	01/22/2025	4 ft	6.67	166	0.464	< 0.30	8.33	12.6	9.87	0.414	0.0367	57.1
FL-03-E	09/23/2024	1 ft	1.64	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL-03-E	09/23/2024	2 ft	1.94	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL-03-E	09/23/2024	4 ft	1.72	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL-03-E	01/22/2025	1 ft	2.61	75.1	< 0.200	< 0.30	5.39	7.36	6.26	< 0.260	0.0428	32.5
FL-03-E	01/22/2025	2 ft	3.89	104	0.215	< 0.30	4.72	6.41	6.10	< 0.260	0.0228	26.6
FL-03-E	01/22/2025	4 ft	1.66	60.4	0.205	< 0.30	5.22	6.95	5.02	< 0.260	< 0.0200	23.6
FL-03-N	09/23/2024	1 ft	1.82	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL-03-N	09/23/2024	2 ft	2.06	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL-03-N	09/23/2024	4 ft	3.13	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL-03-N	01/22/2025	1 ft	1.61	63.3	0.209	< 0.30	5.54	6.48	5.18	< 0.260	< 0.0200	24.2
FL-03-N	01/22/2025	2 ft	2.95	78.2	< 0.200	< 0.30	4.86	6.84	5.99	< 0.260	0.0456	28.7
FL-03-N	01/22/2025	4 ft	2.35	65.7	< 0.200	< 0.30	4.82	5.44	5.75	< 0.260	0.0334	22.5
FL-03-S	09/23/2024	1 ft	1.51	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL-03-S	09/23/2024	2 ft	3.51	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL-03-S	09/23/2024	4 ft	2.17	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL-03-S	01/22/2025	1 ft	2.51	78.7	< 0.200	< 0.30	5.10	7.98	6.10	< 0.260	0.0444	33.5
FL-03-S	01/22/2025	2 ft	1.19	122	< 0.200	< 0.30	2.41	3.06	2.58	< 0.260	< 0.0200	11.1
FL-03-S	01/22/2025	4 ft	2.50	83.6	0.225	< 0.30	7.35	8.21	6.11	< 0.260	0.0292	28.3
FL-03-W	09/23/2024	1 ft	1.75	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL-03-W	09/23/2024	2 ft	1.52	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL-03-W	09/23/2024	4 ft	3.22	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL-03-W	01/22/2025	1 ft	1.97	73.3	< 0.200	< 0.30	4.50	5.77	5.32	< 0.260	0.0414	24.4
FL-03-W	01/22/2025	2 ft	2.06	57.5	< 0.200	< 0.30	3.85	5.57	5.86	< 0.260	0.0440	22.6
FL-03-W	01/22/2025	4 ft	2.05	59.6	0.246	< 0.30	5.59	6.84	5.82	< 0.260	< 0.0200	25.5

Notes:
mg/kg = milligrams per kilogram
NA = Not Applicable
< = Compound not detected at concentrations above the laboratory reporting detection limit. The laboratory reporting detection limit is shown.
Bold = detected
Pink & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
* Indicates laboratory minimum detection limit in excess of SSL

Table 3
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBO IN SOIL CHEMISTRY DATA
OPERATOR (NOBLE 100322 OR PDC 69175)
HSR-HOFFMAN 3-24, Weld COUNTY, Colorado
REM# 27990

Analyte	1-Methyl-Naphthalene	2-Methyl-Naphthalene	Acenaphthene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene
ECMC Table 915-1 Limits (Protection of Groundwater SSL)	0.006	0.019	0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54
ECMC Table 915-1 Limits (Residential SSL)	18	24	360	1800	1.1	0.11	1.1	11	110	0.11	240	240
Sample ID	Sample Date	Depth (ft)										
FL-01-E	01/21/2025	2 ft	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
FL-01-E	01/21/2025	4 ft	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
FL-01-N	01/21/2025	2 ft	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
FL-01-N	01/21/2025	4 ft	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
FL-01-S	01/21/2025	2 ft	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
FL-01-S	01/21/2025	4 ft	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
FL-01-W	01/21/2025	2 ft	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
FL-01-W	01/21/2025	4 ft	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
FL-02-E	01/22/2025	2 ft	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
FL-02-E	01/22/2025	4 ft	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
FL-02-N	01/22/2025	2 ft	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
FL-02-N	01/22/2025	4 ft	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
FL-02-S	01/22/2025	2 ft	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
FL-02-S	01/22/2025	4 ft	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
FL-02-W	01/22/2025	2 ft	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
FL-02-W	01/22/2025	4 ft	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
FL-03-E	01/22/2025	1 ft	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
FL-03-E	01/22/2025	2 ft	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
FL-03-E	01/22/2025	4 ft	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
FL-03-N	01/22/2025	1 ft	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
FL-03-N	01/22/2025	2 ft	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
FL-03-N	01/22/2025	4 ft	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
FL-03-S	01/22/2025	1 ft	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
FL-03-S	01/22/2025	2 ft	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
FL-03-S	01/22/2025	4 ft	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
FL-03-W	01/22/2025	1 ft	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
FL-03-W	01/22/2025	2 ft	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
FL-03-W	01/22/2025	4 ft	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500

Notes:
mg/kg = milligrams per kilogram
< = Compound not detected at concentrations above the laboratory reporting detection limit. The laboratory reporting detection limit is shown.
Bold = detected
Bold and pink or blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
* Indicates laboratory minimum detection limit in excess of SSL
** Summation of GRO+DRO+ORO must be less than 500 mg/kg
NA - Not Applicable

Table 3
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBO IN SC
OPERATOR (NOBLE 100322 OR PDC 69175)
HSR-HOFFMAN 3-24, Weld COUNTY, Colorado
REM# 27990

Analyte			Indeno(1,2,3-cd)pyrene	Pyrene
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.98	1.3
ECMC Table 915-1 Limits (Residential SSL)			1.1	180
Sample ID	Sample Date	Depth (ft)		
FL-01-E	01/21/2025	2 ft	< 0.00500	< 0.00500
FL-01-E	01/21/2025	4 ft	< 0.00500	< 0.00500
FL-01-N	01/21/2025	2 ft	< 0.00500	< 0.00500
FL-01-N	01/21/2025	4 ft	< 0.00500	< 0.00500
FL-01-S	01/21/2025	2 ft	< 0.00500	< 0.00500
FL-01-S	01/21/2025	4 ft	< 0.00500	< 0.00500
FL-01-W	01/21/2025	2 ft	< 0.00500	< 0.00500
FL-01-W	01/21/2025	4 ft	< 0.00500	< 0.00500
FL-02-E	01/22/2025	2 ft	< 0.00500	< 0.00500
FL-02-E	01/22/2025	4 ft	< 0.00500	< 0.00500
FL-02-N	01/22/2025	2 ft	< 0.00500	< 0.00500
FL-02-N	01/22/2025	4 ft	< 0.00500	< 0.00500
FL-02-S	01/22/2025	2 ft	< 0.00500	< 0.00500
FL-02-S	01/22/2025	4 ft	< 0.00500	< 0.00500
FL-02-W	01/22/2025	2 ft	< 0.00500	< 0.00500
FL-02-W	01/22/2025	4 ft	< 0.00500	< 0.00500
FL-03-E	01/22/2025	1 ft	< 0.00500	< 0.00500
FL-03-E	01/22/2025	2 ft	< 0.00500	< 0.00500
FL-03-E	01/22/2025	4 ft	< 0.00500	< 0.00500
FL-03-N	01/22/2025	1 ft	< 0.00500	< 0.00500
FL-03-N	01/22/2025	2 ft	< 0.00500	< 0.00500
FL-03-N	01/22/2025	4 ft	< 0.00500	< 0.00500
FL-03-S	01/22/2025	1 ft	< 0.00500	< 0.00500
FL-03-S	01/22/2025	2 ft	< 0.00500	< 0.00500
FL-03-S	01/22/2025	4 ft	< 0.00500	< 0.00500
FL-03-W	01/22/2025	1 ft	< 0.00500	< 0.00500
FL-03-W	01/22/2025	2 ft	< 0.00500	< 0.00500
FL-03-W	01/22/2025	4 ft	< 0.00500	< 0.00500

Notes:
mg/kg = milligrams per kilogram
< = Compound not detected at concentrations above the
Bold = detected
Bold and pink or blue highlighted soil analytical values
* Indicates laboratory minimum detection limit in excess of
** Summation of GRO+DRO+ORO must be less than 50
NA - Not Applicable

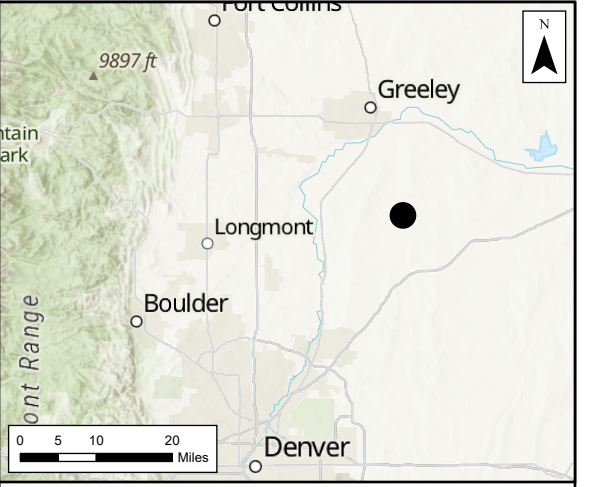
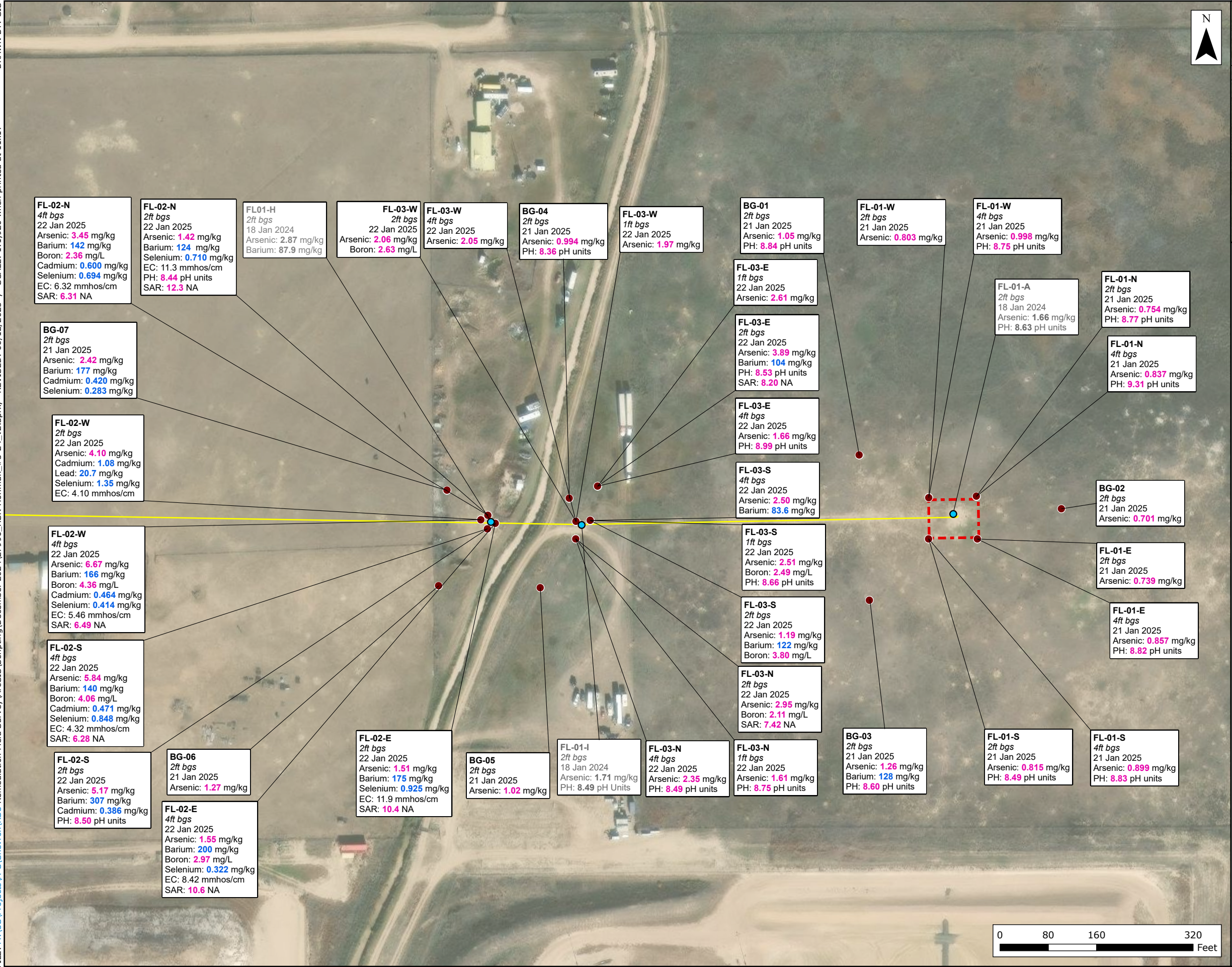
Table 4
SUMMARY OF IN SOIL CHEMISTRY DATA
OPERATOR (NOBLE 100322 OR PDC 69175)
HSR-HOFFMAN 3-24, Weld COUNTY, Colorado
REM# 27990

Analyte	TPH GRO	TPH DRO	TPH ORO	Benzene	Toluene	Ethyl-Benzene	Xylenes	1,2,4-Trimethyl-Benzene	1,3,5-Trimethyl-Benzene	Naphthalene		
ECMC Table 915-1 Limits (Protection of Groundwater)	500	500	NS	0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038		
ECMC Table 915-1 Limits (Residential SSL)	500	500	500	1.2	490	5.8	58	30	27	2		
Sample ID	Sample Date	Depth										
FL-01-E	01/21/2025	2 ft	< 0.50	< 50	< 50	< 0.0020	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0038
FL-01-E	01/21/2025	4 ft	< 0.50	< 50	< 50	< 0.0020	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0038
FL-01-N	01/21/2025	2 ft	< 0.50	< 50	< 50	< 0.0020	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0038
FL-01-N	01/21/2025	4 ft	< 0.50	< 50	< 50	< 0.0020	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0038
FL-01-S	01/21/2025	2 ft	< 0.50	< 50	< 50	< 0.0020	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0038
FL-01-S	01/21/2025	4 ft	< 0.50	< 50	< 50	< 0.0020	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0038
FL-01-W	01/21/2025	2 ft	< 0.50	< 50	< 50	< 0.0020	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0038
FL-01-W	01/21/2025	4 ft	< 0.50	< 50	< 50	< 0.0020	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0038
FL-02-E	01/22/2025	2 ft	< 0.50	< 50	< 50	< 0.0020	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0038
FL-02-E	01/22/2025	4 ft	< 0.50	< 50	< 50	< 0.0020	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0038
FL-02-N	01/22/2025	2 ft	< 0.50	< 50	< 50	< 0.0020	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0038
FL-02-N	01/22/2025	4 ft	< 0.50	< 50	< 50	< 0.0020	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0038
FL-02-S	01/22/2025	2 ft	< 0.50	< 50	< 50	< 0.0020	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0038
FL-02-S	01/22/2025	4 ft	< 0.50	< 50	< 50	< 0.0020	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0038
FL-02-W	01/22/2025	2 ft	< 0.50	< 50	< 50	< 0.0020	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0038
FL-02-W	01/22/2025	4 ft	< 0.50	< 50	< 50	< 0.0020	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0038
FL-03-E	01/22/2025	1 ft	< 0.50	< 50	< 50	< 0.0020	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0038
FL-03-E	01/22/2025	2 ft	< 0.50	< 50	< 50	< 0.0020	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0038
FL-03-E	01/22/2025	4 ft	< 0.50	< 50	< 50	< 0.0020	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0038
FL-03-N	01/22/2025	1 ft	< 0.50	< 50	< 50	< 0.0020	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0038
FL-03-N	01/22/2025	2 ft	< 0.50	< 50	< 50	< 0.0020	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0038
FL-03-N	01/22/2025	4 ft	< 0.50	< 50	< 50	< 0.0020	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0038
FL-03-S	01/22/2025	1 ft	< 0.50	< 50	< 50	< 0.0020	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0038
FL-03-S	01/22/2025	2 ft	< 0.50	< 50	< 50	< 0.0020	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0038
FL-03-S	01/22/2025	4 ft	< 0.50	< 50	< 50	< 0.0020	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0038
FL-03-W	01/22/2025	1 ft	< 0.50	< 50	< 50	< 0.0020	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0038
FL-03-W	01/22/2025	2 ft	< 0.50	< 50	< 50	< 0.0020	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0038
FL-03-W	01/22/2025	4 ft	< 0.50	< 50	< 50	< 0.0020	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0038

Notes:
mg/kg = milligrams per kilogram
CO-ECMC-RES-SO = ECMC Table 915-1 Limits Residential Soil Screening Level
CO-ECMC-PROTECTION-OF-WG-SO-AAL = Protection of Groundwater Soil Screening Level Concentrations, Risk Based and MCL Based
NS = no standard
< = Compound not detected at concentrations above the laboratory reporting detection limit. The laboratory reporting detection limit is shown.
Bold = detected
Bold and pink or blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
* Indicates laboratory minimum detection limit in excess of SSL
** Summation of GRO+DRO+ORO must be less than 500 mg/kg
NA - Not Applicable



FIGURE



Legend

- Soil Sample Locations
- Previous Sample Location
- Approximate Flowline

Notes:
 Results in milligrams per kilogram (mg/kg) unless otherwise noted.
Pink values exceed ECMC table 915-1 Limits (Residential SSL).
Blue values exceed ECMC table 915-1 Limits (Protection of Groundwater SSL).
 Former sample location exceedances are grey.

Analytical results below laboratory detection limits or within compliance of ECMC Table 915-1 not shown.

ECMC Table 915-1 GSSSLs Listed in mg/kg
 Arsenic = 0.29
 Barium = 82
 Boron = 2
 Cadmium = 0.38
 Lead = 14
 Selenium = 0.26
 Boron = 2
 EC = 2
 pH = 6-8.3 (RSSLS)
 SAR = 6

EC = Electrical Conductivity
 ECMC = Energy and Carbon Management Commission
 ft bgs = feet below ground surface
 GSSSL = Groundwater Soil Screening Levels
 mg/kg = milligrams per kilogram
 mmhos/cm = millimhos per centimeter
 RSSL = Residential Soil Screening Levels
 SAR = Sodium Adsorption Ratio (standard units)

Figure 1
Exceedance Values
in Soil Samples
HSR Hoffman #3-24
REM# 27990
Operator: 1003225
 RBURemediationFieldSurvey
 Chevron
 Weld County, CO

