



January 26, 2026

Mr. Derek Horn
QB Energy Operating, LLC
143 Diamond Avenue
Parachute, CO 81635

via email

**Subject: D27NW Dumpline Release
Site Investigation Report – 2025 Q4
ECMC Location ID: 335326
ECMC Release ID: 490935
ECMC Remediation ID: 43303
Garfield County, Colorado**

Mr. Horn,

Entrada Consulting Group Inc. (Entrada) was contracted by QB Energy Operating LLC (QB Energy) to conduct site investigation and collect soil samples in response to a release from a dumpline on the D27NW pad (Site).

The Site is identified in the Colorado Energy and Carbon Management Commission (ECMC) database under Location ID 335326. The dumpline release is documented in the ECMC database under Release ID 490935 and work is proceeding under Remediation Project 43303.

This report summarizes site investigation activities and sample analytical results from the fourth quarter of 2025 and first quarter of 2026.

DELINEATION SOIL BORINGS

Entrada representatives were on site the week of November 10, 2025, to direct a series of soil borings to delineate the vertical and horizontal extent of impacts from the dumpline release. Soil borings were advanced using a track-mounted drill rig operated by Colorado Drilling and Sampling of Montrose, CO. The rig was equipped with continuous coring with air reverse circulation (CCARC) technology, capable of retrieving soil cores in 5-foot sections. Each core section was inspected for signs of hydrocarbon impacts (e.g. staining, odor) and field screened for volatile organic compounds (VOCs) using a handheld photoionization detector (PID) equipped with a 10.6 eV lamp. A site diagram showing the locations of all planned and completed soil borings is included as **Figure 1**. Soil lithology and field observations are summarized in the attached **log diagrams**.

SB02 was located 10 feet northeast of the point of release (POR) between two separators and approximately 3 feet east of the dumpline. This location was intended for vertical delineation of impacts as the initial excavation at the POR was still open, preventing drilling closer to the POR.

A hydro-ex truck was used to pothole the location prior to drilling to ensure clearance of subsurface infrastructure. Soil core was retrieved at 2-to-5-foot intervals from 6 feet below ground surface (ft-bgs) to 61 ft-bgs. The location was extremely rocky, with the drill passing through numerous basalt boulders. Basalt core and fragments dominated the retrieved samples from the surface to approximately 35 ft-bgs. The slow pace of drilling allowed circulated air and water to remove silt and clay from these sample intervals, resulting in poor recovery. After testing various bits, recovery was improved from approximately 26 ft-bgs onward. Strong hydrocarbon odor was noted from 16 to 50 ft-bgs. Staining and discoloration were observed at 28.5-31 ft-bgs. Field screening recorded high VOC concentrations beginning at 16 ft-bgs at 315 parts per million (ppm) up to a peak of 1931 ppm at 24 ft-bgs. VOC concentrations remained very high (~1800 ppm) through 50 ft-bgs before tapering down to just 20 ppm in the 56-61 ft-bgs interval. Samples were collected from 36-41 ft-bgs, 41-45 ft-bgs, 45-50 ft-bgs, and 56-61 ft-bgs.

SB01b was located approximately 12 feet northwest of the POR for lateral delineation. This location was chosen on-the-fly as a step-out from the planned SB01 location due to high VOC readings in initial SB01 returns. As in SB02, the section was dominated by basalt boulders from surface to approximately 30 ft-bgs. Soil core was retrieved in 2-to-5-foot intervals from surface to TD at 44 ft-bgs. No odor, staining, or elevated VOC concentrations were observed. Samples were collected from 30-33 ft-bgs and 42-44 ft-bgs.

SB03 was located approximately 28 feet east-northeast of the POR for lateral delineation. Soil core was retrieved in 2-to-5-foot intervals from surface to TD at 56 ft-bgs. The section was dominated by basalt boulders from approximately 8 to 49 ft-bgs. No staining was observed, though strong hydrocarbon odor and elevated VOC concentrations were noted at 40-45 ft-bgs and 51-56 ft-bgs. Seven (7) samples were collected from 29.5 to 56 ft-bgs.

SB06 was located approximately 18 feet southeast of the POR. Due to limited time, the boring only achieved a TD of 33 ft-bgs. The section was mainly basalt from surface to approximately 24 ft-bgs. No staining was observed. Elevated VOC concentrations were noted from 7 ft-bgs to TD with a peak of 361.1 ppm at 15-17.5 ft-bgs. Samples were collected from 26.5-28.5 ft-bgs and 30-33 ft-bgs.

Soil samples were collected in 4 oz glass jars, sealed, labeled, placed into an ice-filled cooler for preservation, and submitted to Elevation Diagnostics in Aurora, CO, for the following analyses:

- Total Petroleum Hydrocarbons – diesel range organics (TPH-DRO [C10-C28]) and Total Petroleum Hydrocarbons – oil range organics (TPH-ORO [C28-C36]) by U.S. Environmental Protection Agency (EPA) Method 8015D
- TPH – gasoline range organics (TPH-GRO [C6-C10]) by EPA Method 8260
- Xylenes and 1,2,4-trimethylbenzene by EPA Method 8270
- Benzo(a)pyrene and Dibenz(a,h)anthracene by EPA Method 8270
- Electrical Conductivity (EC) by USDA Method 60
- Sodium adsorption ratio (SAR) by EPA Method 6020B
- pH by EPA Method 9045D
- Arsenic by EPA Method 6020B

SOIL ANALYTICAL RESULTS

Analytical results are presented in **Tables 1 and 2** along with ECMC Table 915-1 Cleanup Concentrations, Soil Suitability for Reclamation (SSR) standards, and Residential Soil Screening Level (RSSL) concentrations. Results in exceedance of these standards are summarized below:

- Electrical Conductivity (EC) was reported in exceedance of the SSL limit of 4 in three (3) samples:
 - 20251110-D27NW-(SB02)@45-50 at 4.35
 - 20251114-D27NW-(SB06)@28.5-30 at 4.17
 - 20251114-D27NW-(SB06)@30-33 at 4.62
- Sodium Adsorption Ratio (SAR) was reported in exceedance of the SSL limit of 6 in three (3) samples:
 - 20251110-D27NW-(SB02)@36-41 at 9.5
 - 20251114-D27NW-(SB06)@28.5-30 at 6.93
 - 20251114-D27NW-(SB06)@30-33 at 6.24
- pH was reported in exceedance of the SSL limit of 8.3 in nine (9) samples ranging from 8.37 to 8.86.
- Arsenic concentration was reported in exceedance of the RSSL concentration of 0.68 mg/kg in all samples, ranging from 5.01 mg/kg to 16.84 mg/kg.

All other results were in compliance with ECMC Table 915-1 standards. Laboratory analytical reports with chain-of-custody documentation are included along with this report as attachments to the Supplemental Form 27.

SOURCE FLUID SAMPLING AND ANALYSIS

A sample of produced fluid was collected from the production tank on the D27NW pad on November 17, 2025, and submitted to Elevation Diagnostics to be analyzed for Table 915-1 metals content. A supplemental sample of produced fluid was collected on January 19, 2026, and submitted to Elevation Diagnostics to be analyzed for pH. Analytical results are summarized in the attached **Statement of Operator Knowledge**. The laboratory analytical reports with chain-of-custody documentation are included along with this report as attachments to the Supplemental Form 27.

The concentration of arsenic in the produced fluid was below the laboratory reportable detection limit (RDL) of 0.001 mg/L and pH was reported at 7.12. Based on these results, the elevated pH and arsenic levels reported in soil samples from the vicinity of the dumpline release are believed to be representative of naturally occurring soil chemistry and not the result of oil and natural gas production activities.

CONCLUSIONS AND RECOMMENDATIONS

Soil analytical results reported no hydrocarbons above ECMC Table 915-1 RSSL concentrations in delineation soil samples. Exceedances for EC, SAR, pH, and arsenic were relatively low and Entrada anticipates that these will be within the range of background levels once that data is available.

Analytical results and field observations from SB02 indicate that the vertical extent of impacts is less than 36 ft-bgs. Field screening results for SB03 and SB06 showed signs of hydrocarbon impacts, however laboratory results were well below Table 915-1 RSSLs, indicating that we have delineation to the northwest of the POR at SB01b, northeast at SB03, and southeast at SB06. Due to poor sample recovery within the upper sections of all soil borings, additional soil borings are recommended better constrain the extent of impacts. At Entrada's request, the driller has obtained additional drill bits that should improve sample recovery in the shallow, rocky section.

Based on field observations and analytical results presented herein, Entrada recommends that QB Energy:

- Request the Director's approval for relief from pH and arsenic in existing and future soil samples based on produced fluid analysis.
- Request the Director's approval for a reduced analyte suite consisting of TPH (GRO/DRO/ORO), total xylenes, 1,2,4-trimethylbenzene, EC, and SAR.
- Plan additional soil borings to better constrain the extent of impacts.
- Plan soil borings to collect representative samples of native soil near the Site, at comparable depth to soil boring samples, to be analyzed for Table 915 metals and soil suitability for reclamation parameters.

We appreciate the opportunity to assist QB Energy Operating LLC. Please contact us at (970) 270-2986 if you have any questions.

Sincerely,

ENTRADA CONSULTING GROUP



Christopher Mace
Senior Geologist



Tim Dobransky
Principal Scientist

Attachments:

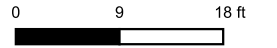
Figure 1 – Site Diagram
Table 1 – Soil Analytical Results – Organic
Table 2 – Soil Analytical Results – Inorganic
Soil Boring Log Diagrams
Photographic Log
Statement of Operator Knowledge

FIGURES



Google Earth Imagery

- Locate - Blue
- Locate - Red
- Locate - Yellow
- Spill Origin
- Proposed
- Boring Location



1:200

NAD83(2011) / Colorado Central (ftUS)

Location ID: 335326
 Release ID: 490935
 Remediation ID: N/A
 Project No: 025-489
 Author: C. Mace
 Date: 2026-01-26

**D27NW Dumpline Release
 Delineation Soil Borings**

NWNW Sec 27, T6S, R93W, 6th PM
 Garfield County, CO



330 Grand Avenue, Suite C
 Grand Junction, CO 81501
 970-549-1015



143 Diamond Avenue
 Parachute, CO 81635
 970-285-2600



Fig. 1

TABLES



TABLE 1
D27NW
QB ENERGY OPERATING LLC
GARFIELD COUNTY, CO

ECMC TABLE 915-1 RESIDENTIAL SOIL SCREENING LEVEL
SOIL ANALYTICAL RESULTS - ORGANIC

Sample Name	Type	Date	Report	ANALYTE																										
				915-1 PROTECTION OF GW																										
				915-1 RESIDENTIAL SOIL																										
UNITS				TPH (Total)	TPH-GRO	TPH-DRO	TPH-ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2,4-TMB	1,3,5-TMB	Acenaphthene	Anthracene	Benz(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(e)pyrene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indene(1,2,3-cd)Pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Pyrene		
mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
20250805-D27NW-(DL-POR)@5	POR	2025-08-05	5829	11921.95	1190.64	9225.45	1505.86	<0.0015	0.53	<0.0014	110.97	31.7	26.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.04	<1.0	2.68	7.7	<0.306	<1.0	
20251112-D27NW-(S801b)@30-33	Soil Boring	2025-11-12	7890	<200.223	<0.223	<100.00	<100.00	NT	NT	NT	<0.0043	<0.0016	NT	NT	NT	NT	NT	NT	<0.010	NT	<0.010	NT	NT	NT	NT	NT	NT	NT	NT	NT
20251112-D27NW-(S801b)@42-44	Soil Boring	2025-11-12	7890	<200.696	0.696	<100.00	<100.00	NT	NT	NT	<0.0043	<0.0016	NT	NT	NT	NT	NT	NT	<0.010	NT	<0.010	NT	NT	NT	NT	NT	NT	NT	NT	NT
20251110-D27NW-(S802)@36-41	Soil Boring	2025-11-10	7848	<239.01	39.01	<100.00	<100.00	NT	NT	NT	1.75	0.64	NT	NT	NT	NT	NT	NT	<0.010	NT	<0.010	NT	NT	NT	NT	NT	NT	NT	NT	NT
20251110-D27NW-(S802)@40-45	Soil Boring	2025-11-10	7849	<363.47	47.93	215.54	<100.00	NT	NT	NT	0.73	0.39	NT	NT	NT	NT	NT	NT	<0.010	NT	<0.010	NT	NT	NT	NT	NT	NT	NT	NT	NT
20251110-D27NW-(S802)@45-50	Soil Boring	2025-11-10	7850	<206.34	6.34	<100.00	<100.00	NT	NT	NT	1.01	0.37	NT	NT	NT	NT	NT	NT	<0.010	NT	<0.010	NT	NT	NT	NT	NT	NT	NT	NT	NT
20251111-D27NW-(S802)@56-61	Soil Boring	2025-11-11	7847	<200.223	<0.223	<100.00	<100.00	NT	NT	NT	<0.0043	<0.0016	NT	NT	NT	NT	NT	NT	<0.010	NT	<0.010	NT	NT	NT	NT	NT	NT	NT	NT	NT
20251113-D27NW-(S803)@29.5-33	Soil Boring	2025-11-13	7910	<200.413	0.413	<100.00	<100.00	NT	NT	NT	<0.0043	<0.0016	NT	NT	NT	NT	NT	NT	<0.010	NT	<0.010	NT	NT	NT	NT	NT	NT	NT	NT	NT
20251113-D27NW-(S803)@33-36	Soil Boring	2025-11-13	7910	<203.11	3.11	<100.00	<100.00	NT	NT	NT	0.2	0.028	NT	NT	NT	NT	NT	NT	<0.010	NT	<0.010	NT	NT	NT	NT	NT	NT	NT	NT	NT
20251113-D27NW-(S803)@36-40	Soil Boring	2025-11-13	7910	<203.05	3.05	<100.00	<100.00	NT	NT	NT	0.11	0.0058	NT	NT	NT	NT	NT	NT	<0.010	NT	<0.010	NT	NT	NT	NT	NT	NT	NT	NT	NT
20251113-D27NW-(S803)@40-45	Soil Boring	2025-11-13	7910	<217.988	17.988	<100.00	<100.00	NT	NT	NT	0.463	0.113	NT	NT	NT	NT	NT	NT	<0.010	NT	<0.010	NT	NT	NT	NT	NT	NT	NT	NT	NT
20251113-D27NW-(S803)@45-48	Soil Boring	2025-11-13	7910	<215	15	<100.00	<100.00	NT	NT	NT	0.736	0.254	NT	NT	NT	NT	NT	NT	<0.010	NT	<0.010	NT	NT	NT	NT	NT	NT	NT	NT	NT
20251114-D27NW-(S803)@49-51	Soil Boring	2025-11-14	7855	<201.27	1.27	<100.00	<100.00	NT	NT	NT	0.14	0.021	NT	NT	NT	NT	NT	NT	<0.010	NT	<0.010	NT	NT	NT	NT	NT	NT	NT	NT	NT
20251114-D27NW-(S803)@51-56	Soil Boring	2025-11-14	7855	<201.8	1.8	<100.00	<100.00	NT	NT	NT	<0.0043	<0.0016	NT	NT	NT	NT	NT	NT	<0.010	NT	<0.010	NT	NT	NT	NT	NT	NT	NT	NT	NT
20251114-D27NW-(S806)@28.5-30	Soil Boring	2025-11-14	7874	<226.205	26.205	<100.00	<100.00	NT	NT	NT	1.01	0.274	NT	NT	NT	NT	NT	NT	<0.010	NT	<0.010	NT	NT	NT	NT	NT	NT	NT	NT	NT
20251114-D27NW-(S806)@30-33	Soil Boring	2025-11-14	7874	<238.176	27.906	110.27	<100.00	NT	NT	NT	1.357	0.376	NT	NT	NT	NT	NT	NT	<0.010	NT	<0.010	NT	NT	NT	NT	NT	NT	NT	NT	NT

Notes:
 Bold with silver highlight: Exceeds RSSLs
 Bold with blue highlight: Exceeds POGs
 "<" (as in, less than laboratory reporting detection limit)



TABLE 2

D27NW
 QB ENERGY OPERATING LLC
 GARFIELD COUNTY, CO

ECMC TABLE 915-1 RESIDENTIAL SOIL SCREENING LEVEL
 SOIL ANALYTICAL RESULTS - INORGANIC

ANALYTE	EC	SAR	pH	Boron	Arsenic	Barium	Cadmium	Chromium VI	Copper	Lead	Nickel	Selenium	Silver	Zinc			
	915-1 PROTECTION OF GW	915-1 RESIDENTIAL SOIL	UNIT	mmhos/cm	No Unit	SU	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			
	4	6	8.3	2	0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370			
	4	6	8.3	2	0.68	15000	71	0.3	3100	400	1500	390	390	23000			
Sample Name	Type	Date	Report														
20250805-D27NW-(DL-POR)@5	POR	2025-08-05	5829	6.18	26.95	8.41	1.12	5.25	691.72	0.18	<0.080	7.46	3.83	7.46	1.01	<0.025	14.73
20251112-D27NW-(SB01b)@30-33	Soil Boring	2025-11-12	7890	0.66	1.49	8.27	NT	13.84	NT	NT	NT	NT	NT	NT	NT	NT	NT
20251112-D27NW-(SB01b)@42-44	Soil Boring	2025-11-12	7890	0.59	1.71	8.43	NT	6.19	NT	NT	NT	NT	NT	NT	NT	NT	NT
20251110-D27NW-(SB02)@36-41	Soil Boring	2025-11-10	7848	3.15	9.5	8	NT	15.27	NT	NT	NT	NT	NT	NT	NT	NT	NT
20251110-D27NW-(SB02)@40-45	Soil Boring	2025-11-10	7849	3.07	5.65	7.95	NT	16.84	NT	NT	NT	NT	NT	NT	NT	NT	NT
20251110-D27NW-(SB02)@45-50	Soil Boring	2025-11-10	7850	4.35	2.14	7.8	NT	9.8	NT	NT	NT	NT	NT	NT	NT	NT	NT
20251111-D27NW-(SB02)@56-61	Soil Boring	2025-11-11	7847	0.67	2.53	8.37	NT	5.47	NT	NT	NT	NT	NT	NT	NT	NT	NT
20251113-D27NW-(SB03)@29.5-33	Soil Boring	2025-11-13	7910	0.56	2.92	8.76	NT	8.47	NT	NT	NT	NT	NT	NT	NT	NT	NT
20251113-D27NW-(SB03)@33-36	Soil Boring	2025-11-13	7910	0.38	2.18	8.86	NT	5.44	NT	NT	NT	NT	NT	NT	NT	NT	NT
20251113-D27NW-(SB03)@36-40	Soil Boring	2025-11-13	7910	0.47	2.5	8.74	NT	11.2	NT	NT	NT	NT	NT	NT	NT	NT	NT
20251113-D27NW-(SB03)@40-45	Soil Boring	2025-11-13	7910	0.48	3.41	8.67	NT	11.01	NT	NT	NT	NT	NT	NT	NT	NT	NT
20251113-D27NW-(SB03)@45-48	Soil Boring	2025-11-13	7910	0.55	3.8	8.54	NT	6.11	NT	NT	NT	NT	NT	NT	NT	NT	NT
20251114-D27NW-(SB03)@49-51	Soil Boring	2025-11-14	7855	0.84	3.54	8.54	NT	6.29	NT	NT	NT	NT	NT	NT	NT	NT	NT
20251114-D27NW-(SB03)@51-56	Soil Boring	2025-11-14	7855	0.88	3.75	8.4	NT	8.15	NT	NT	NT	NT	NT	NT	NT	NT	NT
20251114-D27NW-(SB06)@28.5-30	Soil Boring	2025-11-14	7874	4.17	6.93	8.2	NT	5.38	NT	NT	NT	NT	NT	NT	NT	NT	NT
20251114-D27NW-(SB06)@30-33	Soil Boring	2025-11-14	7874	4.62	6.24	8.2	NT	5.01	NT	NT	NT	NT	NT	NT	NT	NT	NT

Notes:
 Bold with silver highlight: Exceeds RSSLs
 Bold with blue highlight: Exceeds POGs
 "<" (as in, less than laboratory reporting detection limit)

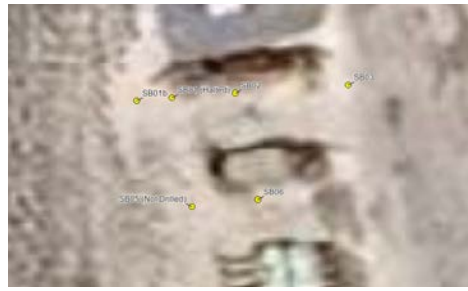
SOIL BORING LOGS



QB Energy Operating LLC
143 Diamond Ave
Parachute, CO 81635

D27NW

SB01b



Date Started : 2025-11-12
 Detector : MiniRae PID
 Hole Diameter : 6-in
 Drilling Method : Air Core
 Sampling Method : Continuous Core
 Drilling Company : CO Drilling & Sampling
 Latitude : 39.50242870
 Longitude : -107.77071835
 Project Number : 025-489
 Logged By : C. Mace

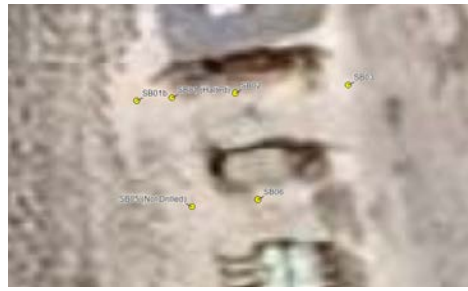
Depth in Feet	Surf. Elev.	USCS	GRAPHIC	DESCRIPTION	Moisture	VOC (ppm)	Staining	Recovery	Sample	SB01b:
0		GC		0-5 ft-bgs: poor recovery, basalt fragments, no odor	dry	ND	N	poor		
5		GC		5-7 ft-bgs: bit jammed with basalt fragment, no recovery	dry	ND	N	poor		
10		GC		7-11 ft-bgs: poor recovery, only basalt, no odor	dry	ND	N	poor		
15		GC		11-13 ft-bgs: slightly improved recovery, some tan-grey clay with basalt fragments, no odor	dry	ND	N	poor		
20		GC		13-17 ft-bgs: sandstone gravel, basalt (core), clayey mudstone, no odor	dry	ND	N	22-in		
25		GC		17-22 ft-bgs: basalt (core), tan-grey gravelly clay, no odor	dry	ND	N	36-in		
30		GC		22-27 ft-bgs: compacted tan gravelly clay and basalt (core)	dry	5	N	24-in		
35		VL		27-30 ft-bgs: solid basalt core	dry	0	N	36-in		
40		MS		30-33 ft-bgs: tan clay/mudstone, no odor	dry	20	N	24-in	Y	
45		MS		33-37 ft-bgs: poor recovery, tan clay/mudstone, no odor	dry	ND	N	poor		
50		SS		37-42 ft-bgs: poor recovery, small amount of greenish sandstone, no odor	dry	ND	N	poor		
55		MS		42-44 ft-bgs: tan clay/mudstone, no odor	dry	25	N	24-in	Y	
60		TD @ 44 ft-bgs in tan mudstone								
65										



QB Energy Operating LLC
143 Diamond Ave
Parachute, CO 81635

D27NW

SB03



Date Started : 2025-11-13
 Detector : MiniRae PID
 Hole Diameter : 6-in
 Drilling Method : Air Core
 Sampling Method : Continuous Core
 Drilling Company : CO Drilling & Sampling
 Latitude : 39.50243829
 Longitude : -107.77059141
 Project Number : 025-489
 Logged By : M. Schlageter

Depth in Feet	Surf. Elev.	USCS	GRAPHIC	DESCRIPTION	Moisture	VOC (ppm)	Staining	Recovery	Sample	SB03:
0		GC		0-4.5 ft-bgs: tan silty clay with basalt fragments, no odor	dry	0	N	48-in		
5		GC		4.5-8 ft-bgs: tan clay/mudstone with basalt fragments, no odor	dry	0	N	36-in		
10		VL		8-10 ft-bgs: basalt, tan clay smear	dry	0	N	20-in		
15		GC		10-13.5 ft-bgs: tan clay/mudstone, mainly basalt	dry	0	N	24-in		
15		GC		13.5-16 ft-bgs: as above	dry	0	N	18-in		
20		GC		16-18.5 ft-bgs: tan clay/mudstone with red and grey basalt	dry	0	N	24-in		
20		VL		18.5-21 ft-bgs: basalt with some tan clay/mudstone	dry	0	N	24-in		
25		VL		21-23.5 ft-bgs: as above	dry	0	N	30-in		
25		VL		23.5-26 ft-bgs: basalt, grey clay	dry	4	N	24-in		
30		VL		26-29.5 ft-bgs: as above	dry	2	N	24-in		
30		GC		29.5-33 ft-bgs: tan clay/mudstone with basalt	dry	3	N	18-in	Y	
35		VL		33-36 ft-bgs: mainly basalt, some tan clay/mudstone	dry	20	N	36-in	Y	
40		VL		36-40 ft-bgs: basalt with some grey and tan clay	dry	11	N	30-in	Y	
45		VL		40-45 ft-bgs: basalt with some tan clay/mudstone, strong odor	dry	428	N	36-in	Y	
50		GC		45-48 ft-bgs: basalt gravel in tan clay, slight odor	dry	82	N	30-in	Y	
50		VL		48-49 ft-bgs: basalt	dry	ND	N	8-in		
55		MS		49-51 ft-bgs: tan silty clay mudstone, some basalt, slight odor	dry	197	N	30-in	Y	
55		MS		51-56 ft-bgs: tan silty clay mudstone with 12-in red clay at top of section with strong odor	dry	347	N	48-in	Y	
60		TD @ 56 ft-bgs in tan mudstone								

PHOTOGRAPHIC LOG

Site: D27NW	Project: D27NW DL Release Drilling	Project Number: 025-489
Date: 2025-11-10 Description: SB01B 7-13 ft-bgs	 A photograph showing a soil sample SB01B 7-13 ft-bgs. The sample is contained in a clear plastic bag on a dark surface. The soil is light brown and contains several dark, irregular fragments, possibly rock or metal. A blue container and a red hammer are visible in the background.	
Date: 2025-11-10 Description: SB01B 27-32 ft-bgs	 A photograph showing a soil sample SB01B 27-32 ft-bgs. The sample is contained in a clear plastic bag on a dark surface. The soil is light brown and contains several dark, irregular fragments, possibly rock or metal. A blue container and a red hammer are visible in the background.	

<p>Site: D27NW</p>	<p>Project: D27NW DL Release Drilling</p>	<p>Project Number: 025-489</p>
<p>Date: 2025-11-10</p> <p>Description: SB02 13-15 ft-bgs</p>		
<p>Date: 2025-11-10</p> <p>Description: SB02 13-16 ft-bgs</p>		

PHOTOGRAPHIC LOG

<p>Site: D27NW</p>	<p>Project: D27NW DL Release Drilling</p>	<p>Project Number: 025-489</p>
<p>Date: 2025-11-10</p> <p>Description: SB02 22-23 ft-bgs</p>		
<p>Date: 2025-11-10</p> <p>Description: SB02 23-24 ft-bgs</p>		

Site: D27NW	Project: D27NW DL Release Drilling	Project Number: 025-489
Date: 2025-11-10 Description: SB02 28-31 ft-bgs		
Date: 2025-11-10 Description: SB02 31-36 ft-bgs		

<p>Site: D27NW</p>	<p>Project: D27NW DL Release Drilling</p>	<p>Project Number: 025-489</p>
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Date:
2025-11-10

Description:
SB02 36-40 ft-bgs



Date:
2025-11-10

Description:
SB02 40-45 ft-bgs



Site: D27NW	Project: D27NW DL Release Drilling	Project Number: 025-489
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Date:
2025-11-10

Description:
SB02 45-50 ft-bgs



Date:
2025-11-10

Description:
SB02 51-56 ft-bgs



<p>Site: D27NW</p>	<p>Project: D27NW DL Release Drilling</p>	<p>Project Number: 025-489</p>
<p>Date: 2025-11-10</p> <p>Description: SB02 56-61 ft-bgs</p>	 <p>The photograph shows a soil sample contained within a black plastic bag. A prominent, irregular yellowish-brown stain is visible on the surface of the bag, likely representing the soil sample. The sample is situated in a work area with various items in the background, including a blue container, a box of 'TACO' brand items, and a box of 'Storage Apps'. The overall scene is dimly lit, suggesting an indoor or shaded outdoor environment.</p>	

Site: D27NW	Project: D27NW DL Release Drilling	Project Number: 025-489
Date: 2025-11-10 Description: SB03 0-5 ft-bgs	 <p>A photograph showing soil samples from a 0-5 ft depth interval. The samples are laid out on a black plastic tarp. There are several boxes of tools, including a blue box for a chainsaw and a red box for a hammer, and a red bucket in the background. The soil is light brown and appears to be a mix of sand and silt.</p>	
Date: 2025-11-10 Description: SB03 5-8 ft-bgs	 <p>A photograph showing soil samples from a 5-8 ft depth interval. The samples are laid out on a black plastic tarp. A red hammer is visible in the upper right. The soil is light brown and appears to be a mix of sand and silt.</p>	

Site: D27NW	Project: D27NW DL Release Drilling	Project Number: 025-489
Date: 2025-11-13 Description: SB03 8-10 ft-bgs	 A photograph showing a soil sample (SB03 8-10 ft-bgs) laid out on a black plastic tarp. The sample consists of a cylindrical core and several clumps of soil. In the background, there is a yellow equipment case, a red cooler, a blue cooler, and boxes of storage bags.	
Date: 2025-11-13 Description: SB03 10-13.5 ft-bgs	 A photograph showing a soil sample (SB03 10-13.5 ft-bgs) laid out on a black plastic tarp. The sample consists of a cylindrical core and several clumps of soil. In the background, there is a yellow equipment case, a box of gloves, and a box of storage bags.	



Site: D27NW	Project: D27NW DL Release Drilling	Project Number: 025-489
Date: 2025-11-13 Description: SB03 13.5-16 ft-bgs	 A photograph showing a soil sample from depth 13.5 to 16 feet. The sample consists of a pile of light-colored, sandy soil with some larger clumps and a cylindrical core sample lying on a black plastic tarp. In the background, there are yellow and red storage bins.	
Date: 2025-11-13 Description: SB03 16-18.5 ft-bgs	 A photograph showing a soil sample from depth 16 to 18.5 feet. The sample consists of a pile of light-colored, sandy soil with some larger clumps and a cylindrical core sample lying on a black plastic tarp. In the background, there is a blue box with a barcode and a yellow storage bin.	



Site: D27NW	Project: D27NW DL Release Drilling	Project Number: 025-489
Date: 2025-11-13 Description: SB03 18.5-21 ft-bgs	 A photograph showing a soil sample from a drilling operation. The sample consists of a cylindrical core of dark, silty soil with several irregular, light-colored clumps of soil attached to its surface. The core is lying on a black plastic tarp. In the background, a yellow hard hat and a blue box with a barcode are visible.	
Date: 2025-11-13 Description: SB03 21-23.5 ft-bgs	 A photograph showing a soil sample from a drilling operation. The sample consists of a cylindrical core of dark, silty soil with several irregular, light-colored clumps of soil attached to its surface. The core is lying on a black plastic tarp. In the background, a yellow hard hat and a blue box with a barcode are visible.	



Site: D27NW	Project: D27NW DL Release Drilling	Project Number: 025-489
Date: 2025-11-13 Description: SB03 23.5-26 ft-bgs	 A photograph showing a soil sample from a drilling operation. The sample is a dark, moist, silty material, broken into several pieces and laid out on a black plastic tarp. In the background, there is a yellow toolbox, a red cooler, a blue cooler, and a red hammer.	
Date: 2025-11-13 Description: SB03 26-29.5 ft-bgs	 A photograph showing a soil sample from a drilling operation. The sample is a dark, moist, silty material, broken into several pieces and laid out on a black plastic tarp. In the background, there is a yellow toolbox, a red cooler, and a blue cooler.	

Site: D27NW	Project: D27NW DL Release Drilling	Project Number: 025-489
Date: 2025-11-13 Description: SB03 29.5-33 ft-bgs	 A photograph showing a soil sample from depth 29.5 to 33 feet. The sample is a light brown, sandy material with some clumps, resting on a black plastic tarp. In the background, there is a yellow toolbox, a red cooler, and a blue cooler.	
Date: 2025-11-13 Description: SB03 33-36 ft-bgs	 A photograph showing a soil sample from depth 33 to 36 feet. The sample is a light brown, sandy material with some clumps, resting on a black plastic tarp. In the background, there is a yellow toolbox, a red cooler, and a blue cooler.	

Site: D27NW	Project: D27NW DL Release Drilling	Project Number: 025-489
Date: 2025-11-13 Description: SB03 36-40 ft-bgs	 A photograph showing a yellow power tool, a red cooler, and a blue container on a white tarp. In the foreground, a large pile of dark, moist soil is visible, with a wooden plank resting on it.	
Date: 2025-11-13 Description: SB03 40-45 ft-bgs	 A photograph showing a yellow power tool, a red cooler, and a blue container on a white tarp. In the foreground, a large pile of dark, moist soil is visible, with a wooden plank resting on it.	

Site: D27NW	Project: D27NW DL Release Drilling	Project Number: 025-489
Date: 2025-11-13 Description: SB03 45-48 ft-bgs		
Date: 2025-11-13 Description: SB03 48-49 ft-bgs		

Site: D27NW	Project: D27NW DL Release Drilling	Project Number: 025-489
Date: 2025-11-14 Description: SB03 49-51 ft-bgs		
Date: 2025-11-14 Description: SB03 51-56 ft-bgs		

Site: D27NW	Project: D27NW DL Release Drilling	Project Number: 025-489
Date: 2025-11-14 Description: SB06 5-7 ft-bgs	 A photograph showing a soil sample from 5-7 feet below ground surface (bgs). The sample is contained in a clear plastic bag and is placed on a black plastic tarp. In the background, there is a yellow hard hat, a blue box of storage bags, and a red cooler.	
Date: 2025-11-14 Description: SB06 7-11 ft-bgs	 A photograph showing a soil sample from 7-11 feet below ground surface (bgs). The sample is contained in a clear plastic bag and is placed on a black plastic tarp. In the background, there is a yellow hard hat, a blue box of storage bags, a red cooler, and a blue cooler.	

PHOTOGRAPHIC LOG

<p>Site: D27NW</p>	<p>Project: D27NW DL Release Drilling</p>	<p>Project Number: 025-489</p>
<p>Date: 2025-11-14</p> <p>Description: SB06 11-15 ft-bgs</p>	 <p>A photograph showing a soil sample from a depth of 11-15 feet below ground surface. The sample is contained in a clear plastic bag and consists of several cylindrical sections of soil, some of which are broken into smaller pieces. The soil is light-colored and appears to be a mix of sand and silt. In the background, there is a yellow toolbox, a blue box labeled 'storage bags', and a red hammer.</p>	
<p>Date: 2025-11-14</p> <p>Description: SB06 15-17.5 ft-bgs</p>	 <p>A photograph showing a soil sample from a depth of 15-17.5 feet below ground surface. The sample is contained in a clear plastic bag and consists of several cylindrical sections of soil, some of which are broken into smaller pieces. The soil is light-colored and appears to be a mix of sand and silt. In the background, there is a yellow toolbox, a blue box labeled 'storage bags', and a red hammer.</p>	

Site: D27NW	Project: D27NW DL Release Drilling	Project Number: 025-489
Date: 2025-11-14 Description: SB06 17.5-20 ft-bgs	 A photograph showing a yellow toolbox and other equipment on a black tarp. The tarp is covered with dark, moist soil and some debris. In the background, there are red and blue containers and a blue box labeled 'EcoFlow'. A metal rod or pipe is lying on the tarp.	
Date: 2025-11-14 Description: SB06 20-21 ft-bgs	 A close-up photograph of soil and rock fragments. The soil is dark and appears to be a mix of fine particles and larger clumps. There are several large, angular rock fragments scattered throughout the soil.	

Site: D27NW	Project: D27NW DL Release Drilling	Project Number: 025-489
Date: 2025-11-14 Description: SB06 21-24 ft-bgs	 A photograph showing a soil sample from a depth of 21 to 24 feet below ground surface. The sample is contained within a large, dark, rectangular bag that is heavily stained with soil. The soil appears dark and moist. In the background, there is a yellow hard hat, a blue box of storage bags, and a red container.	
Date: 2025-11-14 Description: SB06 24-26.5 ft-bgs	 A photograph showing a soil sample from a depth of 24 to 26.5 feet below ground surface. The sample is contained within a large, dark, rectangular bag that is heavily stained with soil. The soil appears dark and moist. In the background, there is a yellow hard hat, a blue box of storage bags, and a red container.	

Site: D27NW	Project: D27NW DL Release Drilling	Project Number: 025-489
Date: 2025-11-14 Description: SB06 26.5-28.5 ft-bgs	 A photograph showing a soil sample from a depth of 26.5 to 28.5 feet below ground surface. The sample is contained within a clear plastic bag and is placed on a black tarp. The soil is dark, moist, and appears to be a silty clay or similar fine-grained material. In the background, there is a yellow hard hat, a blue storage bin, and a box labeled 'Storage Bags'.	
Date: 2025-11-14 Description: SB06 28.5-30 ft-bgs	 A photograph showing a soil sample from a depth of 28.5 to 30 feet below ground surface. The sample is contained within a clear plastic bag and is placed on a black tarp. The soil is dark, moist, and appears to be a silty clay or similar fine-grained material. In the background, there is a blue storage bin and a box labeled 'Storage Bags'.	

<p>Site: D27NW</p>	<p>Project: D27NW DL Release Drilling</p>	<p>Project Number: 025-489</p>
<p>Date: 2025-11-14</p> <p>Description: SB06 30-33 ft-bgs</p>	 <p>The photograph shows a drilling site. In the foreground, a large pile of dark, wet soil or sediment is contained within a black plastic tarp. Several cylindrical core samples are visible, some resting on the tarp and others partially buried in the soil. In the background, a yellow toolbox is prominently displayed. To the left of the toolbox is a blue box with some text, and to the right is a red container. The scene is set outdoors on a light-colored surface.</p>	

STATEMENT OF OPERATOR KNOWLEDGE

**D27NW Dumpline Release
Release Cleanup (REM ID 43303)
Produced Fluid Analysis – Operator Knowledge**



On the D27NW pad (Site, #335326), produced fluid is transported from the wellhead through a flowline to a 2-phase separator, where the produced fluid (liquid) is separated from the dry gas. The produced fluid is then moved through a dumpline to the production tank for storage on the pad. Following separation, the gas, which still contains a small percentage of produced fluid, moves through the sales line to join the local gas gathering line.

QB Energy Operating LLC (Operator) has collected a produced fluid sample from the production tank at the Site to characterize the Table 915-1 pH and metals content in the fluid flowing through the dumplines to the production tanks.

Sample Name	Sample Date	Sample Type	Report	pH	Arsenic
20251117-GMSOURCE-(D27NW-T)	2025-11-17	Tank	7826		< 1.00 ug/L
20260119-GMSOURCE-(D27NW-T)	2026-01-19	Tank	8471	7.12	

It is the Operator's understanding that the most likely source for elevated pH and metals concentration in soil in the vicinity of the dumpline release would be produced fluids. Based on laboratory analysis of the produced fluid sample collected from the production tank at the Site, QB Energy believes that the elevated pH and arsenic levels are representative of naturally occurring soil composition and not the result of oil and natural gas production activities.