

March 24, 2026

Derek Horn
EH&S Specialist
Environmental Health and Safety
QB Energy LLC
143 Diamond Avenue
Parachute, Colorado 81635

**Re: Report of Work Completed – 2026 Quarter 1
Dumpline Release Remediation
J17E
Mamm Creek Field
Garfield County, Colorado**

Dear Mr. Horn,

Quandary Consultants, LLC (Quandary), on behalf of QB Energy LLC (QB), completed monthly operation and maintenance (O&M) activities as related to the dumpline release at the COUEY-67S92W/8SESW, also known as the J17E (Facility ID: 334782) pad location (Site). These activities were completed in accordance with the State of Colorado Energy and Carbon Management Commission (ECMC) Rule 913.c.(3): *Remediation of Spill and Releases pursuant to Rule 912*. This report of work completed (ROWC) was drafted for the purpose of presenting the first quarter (Q1) of 2026 activities completed at the Site alongside ECMC Form 27 document number 404565295. All corresponding and previous investigative work completed may be referenced under the ECMC Remediation Project Number (RPN) 17035. The Site is located in QB's Mamm Creek area of operation in Garfield County, Colorado (Figure 1).

Operation and Maintenance Activities – J17E

On January 15, February 4, and March 2, 2026, Quandary personnel completed O&M activities on the remediation soil vapor extraction (SVE) solar trailer skid (QB trailer #3) at the Site. The solar skid alternates remediation between the shallow and deep impacted soil zones. The shallow soil zones are connected to SVE wells SVE03, SVE04, and SVE06 and the deep zones are connected to SVE wells SVE01, SVE02, and SVE05. The SVE system configuration and well locations are depicted in Figure 2. O&M activities included monitoring the SVE system connected to either the shallow or deep SVE well configuration, documenting blower hours. During O&M activities, a photoionization detector (PID) was used to measure the quantities of volatile organic compounds (VOCs). Measurements were collected from the SVE system effluent exhaust (stack) of the shallow or deep wells. The PID readings ranged from 186.3 parts per million (ppm) to 399.7 ppm across the three O&M activity dates. Between January 15 and March 2, 2026, the solar trailer skid blower operated for a total of 179.2 hours.

Operation and Maintenance Field Summary – Quarter 1, 2026

Date	STACK PID (ppm)	STACK Flow (CFM)	Blower Hours	Field Observations	Laboratory Analysis
January 15, 2026	399.7	11	18,448.3	K.O. Tank ~50% full, emptied	N/A
February 4, 2026	186.3	6	18,534.5	K.O. Tank ~20% full, emptied	N/A
March 2, 2026	315.3	8	18,627.5	K.O. Tank ~30% full, emptied	N/A

Key: PID – photoionization detector ppm – parts per million K.O. Tank – knock out tank

Air Emissions – J17E

Historically, estimated TVPH air emissions of the SVE system currently operating at the Site have been determined based on a combination of the previous air samples that were submitted for laboratory analysis and the field PID measurements. The historical air samples submitted for laboratory analysis included samples from the solar trailer skid (fourth quarter of 2021 and first quarter of 2022) and samples from the previously utilized pilot trailer skid (first, second, and third quarters of 2022). A site-specific laboratory TVPH-to-PID correlation was created to estimate emissions when laboratory analytical results were not obtained by routine air sample collection. From the third quarter of 2024 to the fourth quarter of 2025, the air emissions related to the solar SVE system have been estimated through the quarterly effluent exhaust sampling of TVPH. The first quarter of 2026 solar trailer’s air emissions were derived from PID readings, flow rate (CFM), and historical measurements. The air emissions of both systems are then combined to confirm total mass removal quantities. The estimated TVPH air emissions resulting from volatilization of hydrocarbons during operation of the system during Q1 of 2026 were 27.35 pounds. During Q1 of 2026, the system volatilized approximately 0.103 barrels (bbls) of hydrocarbons. The total estimated TVPH air emissions resulting from the volatilization of hydrocarbons during operation since remediation began on December 20, 2021, is approximately 2,203.8 pounds for the solar system and 4,879.2 pounds for the combined solar and pilot systems. The rolling twelve-month VOC emissions estimate is approximately 0.0549 tons, well below the Colorado Department of Public Health and Environment (CDPHE) air permitting threshold of two tons of VOCs per rolling twelve-month period. An air analytical summary table and an air emissions summary are enclosed in Table 1.

Conclusions and Forecasting

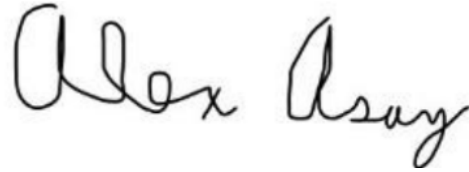
Quandary recommends that QB continue operating the SVE system to further remove entrained hydrocarbons from the soil and groundwater beneath the Site. Additional effluent air samples should be collected on a quarterly basis to monitor emissions concentrations.

Please contact us at (970) 658-7025 or at pcoit@quandaryconsultants.com if you have any questions regarding this report or require additional information.

Kind regards,



Parker Coit, P.G.
Program Manager



Alex Asay
Environmental Project Coordinator

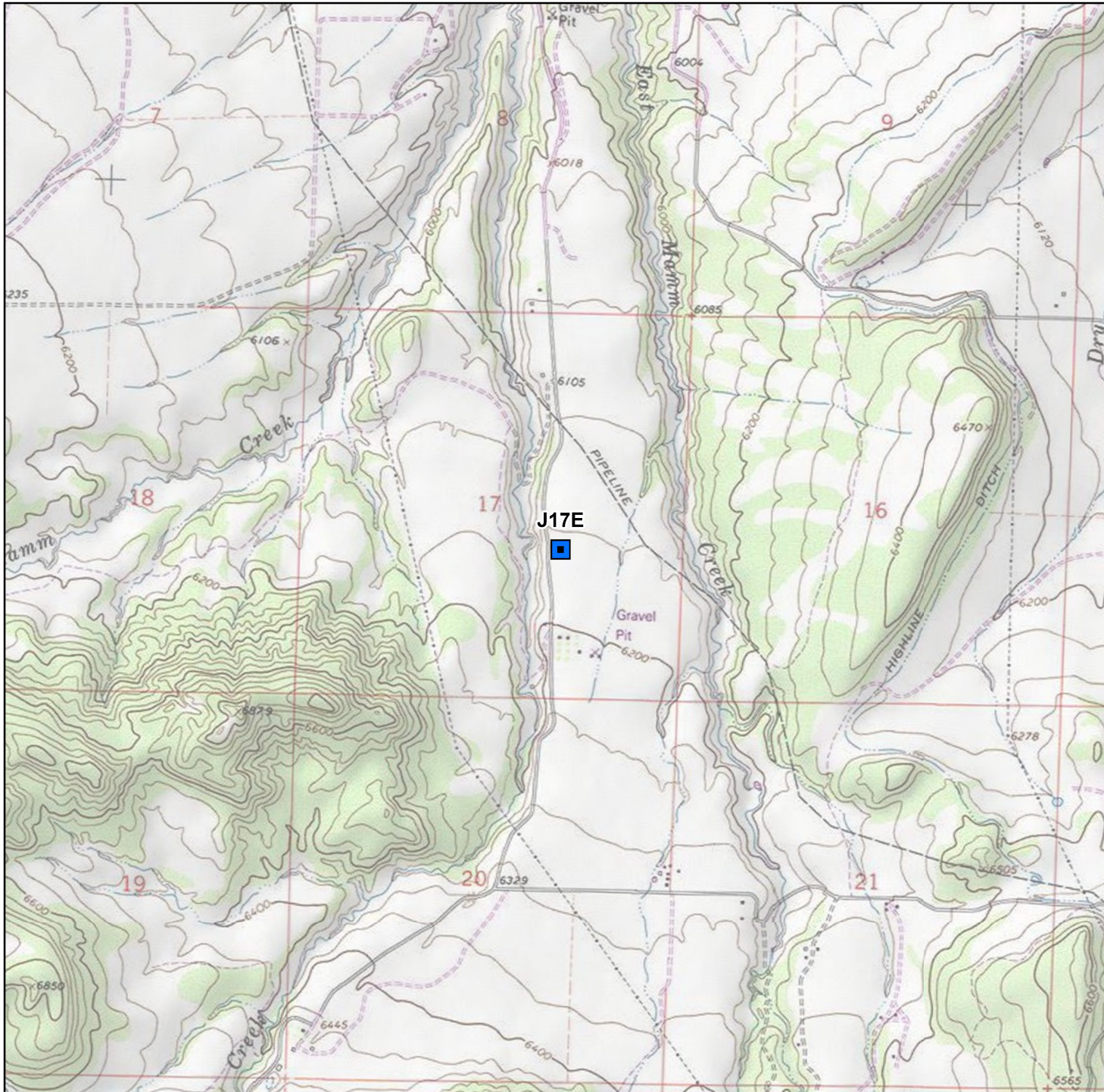
Enclosures:

Figures

Figure 1 – Site Location Map

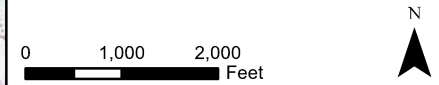
Figure 2 – System Layout Map

FIGURES



Legend

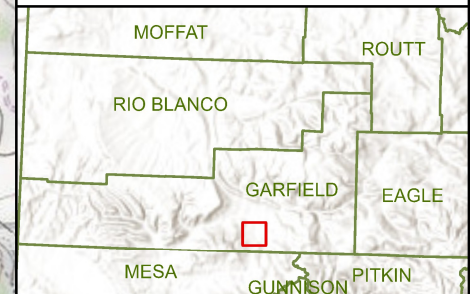
- Site Location
- County Boundary



QB Energy Operating, LLC

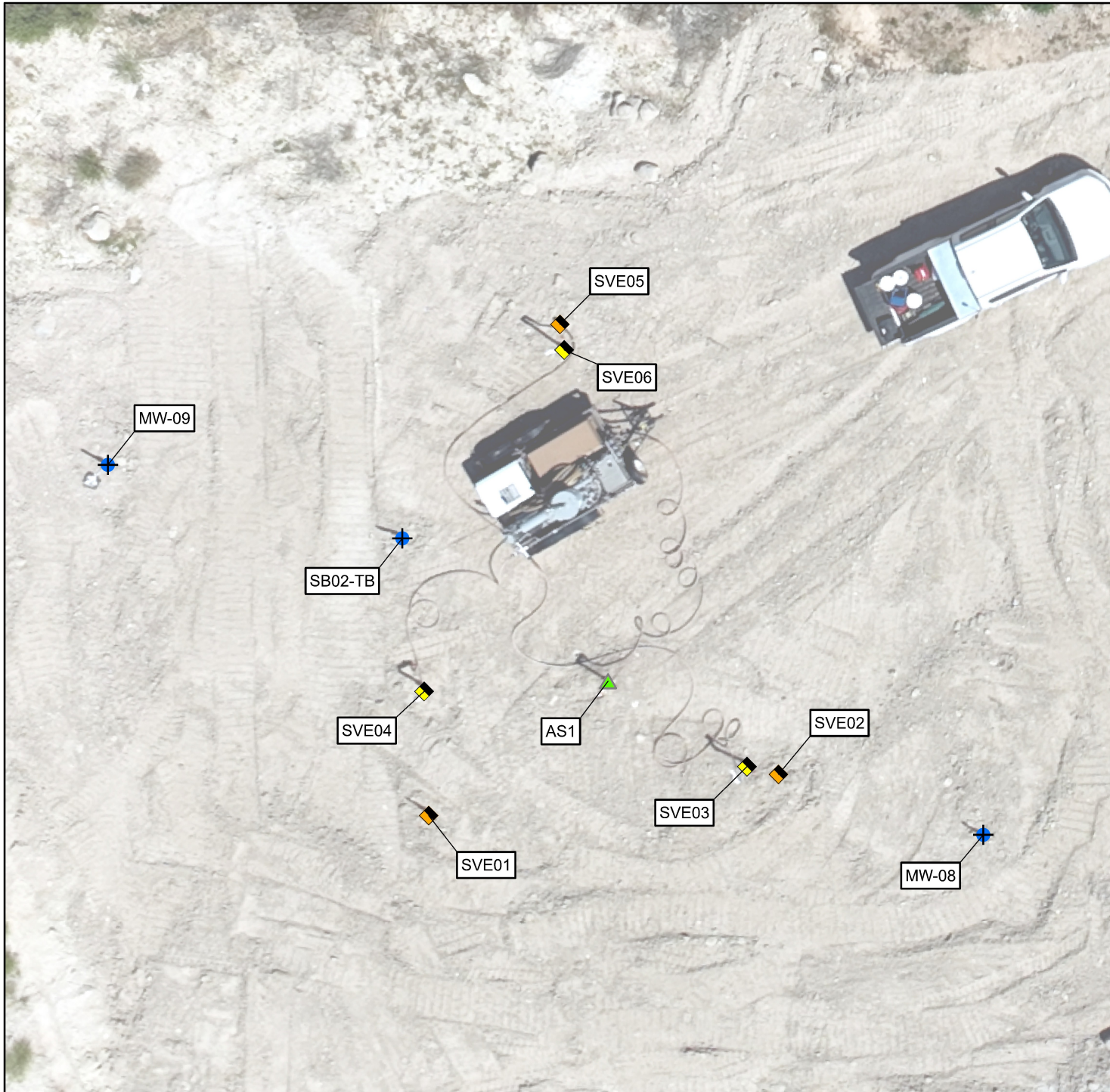
**Figure 1. J17E
Site Location Map**






39.444801, -107.686550
NWSE, Sec. 17, T7S, R92W, 6PM
Garfield County, CO

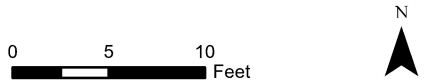


Date: 3/3/2026 Author: AA

Data Sources: Esri, CGIAR, USGS, Maxar



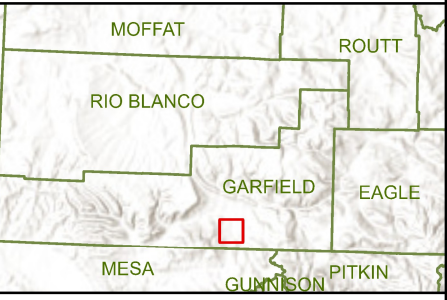
- Legend**
-  Shallow Soil Vapor Extraction (SVE) Well
 -  Deep SVE Well
 -  Air Sparging (AS) Well
 -  Monitoring Well
 -  County Boundary



QB Energy Operating, LLC

Figure 2. J17E Site Map

39.444801, -107.686550
 NWSE, Sec. 17, T7S, R92W, 6PM
 Garfield County, CO



 **QUANDARY CONSULTANTS**

Date: 3/3/2026 Author: AA

Data Sources: Google Earth 2023
 Drone Imagery: WSP USA, Inc. (7/13/2024)

TABLES

TABLE 1
EMISSIONS ESTIMATE SUMMARY
J17E - SOLAR AND PILOT SKID
GARFIELD COUNTY, COLORADO
QB ENERGY LLC

Sample Information and Lab Analysis									
Date	Total Flow (cf)	Delta Flow (cf)	Benzene (ug/l)	Toluene (ug/l)	Ethyl Benzene (ug/l)	Xylenes (ug/l)	Naphthalene (ug/l)	VOCs TVPH (ug/l)	PID (ppm)
Solar Skid									
12/11/23	222,420	222,420	1.97	ND	ND	4.22	NA	ND	1,388
02/05/24	557,592	335,172	ND	159	10.4	32.2	NA	9,540	1,227
05/02/24	900,180	342,588	25.4	127	3.95	98.8	NA	7,810	449
08/07/24	960,293	60,113	10.6	38.4	0.876	7.85	NA	8,390	938
11/01/24	1,217,695	257,403	12.4	77.2	1.41	72.90	NA	5,580	883
03/27/25	1,672,521	454,826	0.2	1.8	0.108	4.37	NA	401	202
06/10/25	1,853,127	180,606	1.0	8.9	0.535	21.66	NA	1,987	1,001
09/02/25	1,970,691	117,564	0.6	5.5	0.329	13.33	NA	1,223	616
12/08/25	2,133,128	162,437	13.3	41.1	0.672	52.31	NA	3,447	192
03/02/26*	2,276,168	143,040	11.8	36.6	0.6	46.6	NA	3,067.8	315
Pilot Skid									
11/20/23	300,792	300,792	28	76	1.8	31	NA	6,400	2,141
01/30/24	598,392	297,600	17	44	1.0	19	NA	2,710	1,625
04/16/24	874,332	275,940	17.9	46.3	1.3	28.3	NA	5,000	1,584
07/24/24	1,121,897	247,565	18.8	96.8	2.32	93.7	NA	9,540	1,842
11/01/24	1,239,857	117,960	16.2	79.9	1.23	53.4	NA	6,320	1,328
03/13/26*	1,243,637	3,780	20.4	100.7	1.5	67.3	NA	6,320	166

*Note: VOCs estimated based on historical measurements

Emission Calculations							
Date	Flow Rate (cfm)	Benzene (lb/hr)	Toluene (lb/hr)	Ethyl Benzene (lb/hr)	Xylenes (lb/hr)	Naphthalene (ug/l)	VOCs TVPH (lb/hr)
Solar Skid							
12/11/23	11	0.00	ND	ND	0.00	NA	ND
02/05/24	17	0.00	0.01	0.00	0.00	NA	0.61
05/02/24	13	0.00	0.01	0.00	0.00	NA	0.39
08/07/24	21	0.00	0.00	0.00	0.00	NA	0.65
11/01/24	9	0.00	0.00	0.00	0.00	NA	0.19
03/27/25	12	0.00	0.00	0.00	0.00	NA	0.02
06/10/25	5	0.00	0.00	0.00	0.00	NA	0.04
09/02/25	5	0.00	0.00	0.00	0.00	NA	0.02
12/08/25	9	0.00	0.00	0.00	0.00	NA	0.11
03/02/26	8	0.00	0.00	0.00	0.00	NA	0.09
Pilot Skid							
11/20/23	83	0.01	0.02	0.00	0.01	NA	1.99
01/30/24	100	0.01	0.02	0.00	0.01	NA	1.01
04/16/24	105	0.01	0.02	0.00	0.01	NA	1.96
07/24/24	112	0.01	0.04	0.00	0.04	NA	4.00
11/01/24	100	0.01	0.03	0.00	0.02	NA	2.36
03/13/26	126	0.01	0.05	0.00	0.03	NA	2.98

Tons emitted over total operating time										
Date	Total Operational Hours	Delta Hours	Benzene (tons)	Toluene (tons)	Ethyl Benzene (tons)	Xylenes (tons)	TVPH (tons)	Naphthalene (ug/l)	Cumulative TVPH (tons)	12-Month Rolling Throughput (tons)
Solar Skid										
Historical Data 4th Qtr 2021 to 3rd Qtr 2023			0.0008	0.0007	0.0001	0.0003	0.2550	NA	0.2550	
1st Qtr 2024 to 1st Qtr 2026										
12/11/23	337.0	337.0	0.0000	ND	ND	0.0000	ND	ND	ND	
02/05/24	665.6	328.6	0.0000	0.0017	0.0001	0.0003	0.0997	NA	0.3546	
05/02/24	1,093.3	427.7	0.0003	0.0014	0.0000	0.0011	0.0834	NA	0.4380	
08/07/24	1,141.7	48.4	0.0000	0.0001	0.0000	0.0000	0.0157	NA	0.4537	
11/01/24	1,612.1	470.4	0.0001	0.0006	0.0000	0.0006	0.0448	NA	0.4985	
03/27/25	2,260.0	647.9	0.0000	0.0000	0.0000	0.0001	0.0057	NA	0.5042	
06/10/25	2,811.3	551.3	0.0000	0.0001	0.0000	0.0001	0.0112	NA	0.5154	
09/02/25	3,215.3	404.0	0.0000	0.0000	0.0000	0.0000	0.0045	NA	0.5198	
12/08/25	3,530.1	314.8	0.0001	0.0002	0.0000	0.0003	0.0175	NA	0.5373	
03/02/26	3,828.1	298.0	0.0001	0.0002	0.0000	0.0002	0.0137	NA	0.5510	
Solar Skid Sum:			0.0014	0.0049	0.0002	0.0030	0.5510	NA	1.1019	0.052
Pilot Skid										
Historical Data 4th Qtr 2023 to 2nd Qtr 2024			0.004	0.006	0.000	0.001	0.446	NA	0.446	
1st Qtr 2024 to 1st Qtr 2025										
11/20/23	60.4	60.4	0.0003	0.0007	0.0000	0.0003	0.0600	ND	0.5060	
01/30/24	110.0	49.6	0.0002	0.0004	0.0000	0.0002	0.0251	NA	0.5311	
04/16/24	153.8	43.8	0.0002	0.0004	0.0000	0.0002	0.0430	NA	0.5741	
07/24/24	190.6	36.8	0.0001	0.0007	0.0000	0.0007	0.0736	NA	0.6477	
11/01/24	210.3	19.7	0.0001	0.0002	0.0000	0.0001	0.0193	NA	0.6670	
03/31/25	210.9	0.6	0.0000	0.0000	0.0000	0.0000	0.0012	NA	0.6682	
08/31/25	211.9	1.0	0.0000	0.0000	0.0000	0.0000	0.0012	NA	0.6694	
03/13/26*	212.4	0.5	0.0000	0.0000	0.0000	0.0000	0.0006	NA	0.6700	
Pilot Skid Sum			0.0044	0.0085	0.0002	0.0030	0.6682	NA	1.3377	0.003
Total Emissions			0.006	0.013	0.000	0.006	1.219	NA	2.440	0.055

NOTES:
cf - cubic feet
ug/l - micrograms per liter
VOCs - volatile organic compounds
TVPH - total volatile petroleum hydrocarbons
cfm - cubic feet per minute
lb/hr - pounds per hour
lbs - pounds
PID - photoionization detector
ppm - part per million
ND - not detected
NA - not analyzed