VIA ELECTRONIC MAIL –

December 30, 2024

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

Subject: **Report of Work Completed 3rd and 4th Quarter of 2024**
Dumpline Release – ECMC Remediation Project Number 17035
J17E
Mamm Creek Field
Garfield County, Colorado

Dear Mr. Horn:

WSP USA Inc. (WSP), on behalf of QB Energy LLC (QB) performed quarterly groundwater sampling and routine operation and maintenance (O&M) activities associated with the dumpline release at the COUEY-67S92W/8SESW also known as the J17E (Facility ID: 334782) pad location (Site). These activities were completed as quarterly requirements under Remediation Project Number (RPN) 17035 and to monitor and remediate hydrocarbon impacts entrained within the subsurface at the Site. All groundwater sampling and O&M activities completed at the Site during the third quarter (3Q) and fourth quarter (4Q) of 2024 can be referenced in the State of Colorado Energy & Carbon Management Commission (ECMC) Document Number (DN) 404033674. The Site is located in QB's Mamm Creek area of operation in Garfield County, Colorado (Figure 1).

QUARTERLY GROUNDWATER SAMPLING – J17E – Q3

On July 3, 2024, WSP personnel conducted quarterly groundwater monitoring activities at the Site. The groundwater monitoring activities included fluid level gauging and the collection of groundwater samples in all 11 groundwater monitoring wells at the Site. When completing the 3Q groundwater sampling activities, light non-aqueous phase liquid (LNAPL) was not observed in any of the monitoring well locations. To properly purge the wells prior to sampling, either three well casing volumes of groundwater were removed from each well or the well was purged dry using high density polyethylene (HDPE) disposable bailers. Depth to groundwater ranged from 54.89 feet in MW-08 to 69.67 feet in MW-01. All groundwater measurements were collected from the top of casing (TOC) of the well. Groundwater generally flows from the south to the north-northwest direction at the Site. All groundwater samples were submitted to Pace Analytical (Pace) of Mt. Juliet, Tennessee for laboratory analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) under a previously approved groundwater analytical suite (DN 402853537). WSP personnel also collected additional groundwater samples from monitoring well locations SB02TB, MW01, MW04, MW05, MW06, MW08, MW09, and MW10 to be analyzed for naphthalene, 1-methylnaphthlene, and 2-methylnaphthlene (DN 403314541); as well as 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene (DN 403588050). These additional groundwater samples were collected for the *J17E Groundwater Study* to move the project into Residential Soil Screening Level Concentrations (RSSLCs).

A relative groundwater elevation map depicting the groundwater monitoring well locations and potentiometric gradient illustrating relative groundwater flow direction is included on Figure 2. Groundwater elevation has decreased by approximately 0.3 feet in 3Q of 2024 in comparison to the second quarter (2Q) of 2024. A summary of groundwater

WSP USA
820 MEGAN AVENUE, UNIT B
RIFLE CO 81650

Tel.: 970-285-9985
wsp.com

elevation data is included in the attached Table 1. Please note that the relative groundwater elevation for the three monitoring wells located in the footprint of the former tank battery, SB02-TB, MW08, and MW09, are not available for 3Q 2024. Initial backfilling has commenced in the excavation footprint therefore the survey data associated with the base of each of these three wells is no longer valid. A new survey will be scheduled once the backfilling of the footprint has been completed.

QUARTERLY GROUNDWATER SAMPLING – J17E – Q4

On November 4, 2024, WSP personnel conducted quarterly groundwater monitoring activities at the Site. The groundwater monitoring activities included fluid level gauging and the collection of groundwater samples in 10 of the 11 groundwater monitoring wells at the site. Monitoring well MW09 was not collected due to a pinch in the well approximately 5 feet below the top of casing (TOC). When completing the 4Q groundwater sampling activities, light non-aqueous phase liquid (LNAPL) was not observed in any of the monitoring well locations. To properly purge the wells prior to sampling, either three well casing volumes of groundwater were removed from each well or the well was purged dry using high density polyethylene (HDPE) disposable bailers. Depth to groundwater ranged from 59.09 feet in MW-04 to 68.79 feet in MW-01. All groundwater measurements were collected from the top of casing (TOC) of the well. Groundwater generally flows from the south to the north-northwest direction at the Site. All groundwater samples were submitted to Pace Analytical (Pace) of Mt. Juliet, Tennessee for laboratory analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) under a previously approved groundwater analytical suite (DN 402853537). WSP personnel also collected additional groundwater samples from monitoring well locations SB02TB, MW01, MW04, MW05, MW06, MW08, and MW10 to be analyzed for naphthalene, 1-methylnaphthlene, and 2-methylnaphthlene (DN 403314541); as well as 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene (DN 403588050). These additional groundwater samples were collected for the *J17E Groundwater Study* to move the project into Residential Soil Screening Level Concentrations (RSSLCs).

A relative groundwater elevation map depicting the groundwater monitoring well locations and potentiometric gradient illustrating relative groundwater flow direction is included on Figure 2. Groundwater elevation has increased by approximately 1.2 feet in 4Q of 2024 in comparison to the third quarter (3Q) of 2024. A summary of groundwater elevation data is included in the attached Table 1. Please note that the relative groundwater elevation for the three monitoring wells located in the footprint of the former tank battery, SB02-TB, MW08, and MW09, are not available for 4Q 2024. Initial backfilling has commenced in the excavation footprint therefore the survey data associated with the base of each of these three wells is no longer valid. A new survey will be scheduled once the backfilling of the footprint has been completed.

OPERATION AND MAINTENANCE ACTIVITIES – J17E

Bi-Weekly O&M – Solar Trailer Skid [SVE Only]

On August 7th, 20th, 26th, September 24th, October 7th, November 1st, 11th, 25th, and December 11th, 2024, WSP personnel completed O&M activities on the remediation blower trailer skid at the Site. The skid alternates remediation between the shallow and deep impacted soils zones connected to soil vapor extraction (SVE) wells SVE3, SVE4, and SVE6 (shallow) and wells SVE1, SVE2, and SVE5 (deep) at the Site. During the first two months of the 3Q of 2024, O&M on the blower trailer was not completed due to mechanical issues with the system. O&M activities included monitoring the blower connected to shallow or deep SVE well configuration, documenting blower hours, and adjusting/recording flow and vacuum. During O&M activities, a photo-ionization detector (PID) was used to collect headspace readings of volatile organic compounds (VOCs). Measurements were collected from the SVE effluent exhaust (stack) of the shallow or deep wells and nearby groundwater monitoring wells which included locations SB02-TB, MW-08, and MW-09. The PID headspace readings ranged from 0.0 parts per million (ppm) to 11.2 ppm in MW-08, MW-09, and SB02-TB. The PID readings taken from the shallow SVE wells was 1,164 ppm on August 26th, 2024

and 678.3 ppm on November 1st, 2024. The PID readings in the deep SVE wells ranged from 184.6 ppm to 1124 ppm. During 3Q and 4Q of 2024, the trailer skid blower operated for a total of 471.2 hours.

An air sample was collected from the solar trailer skid stack on August 7th, 2024 [20240807-J17E-(SS-EFF)] and November 1st, 2024 [20241101-J17E-(SS-EFF)]. A representative air sample was collected by isolating and screening each SVE well prior to sample collection. Based on field screening results SVE1, SVE3, and SVE4 wells were the most impacted. One representative air sample was collected while pulling on the most impacted SVE wells SVE1, SVE3, and SVE4. The PID measurement at the time of the air sample collection ranged from 882.5 ppm to 938.2 ppm. The collected air sample was submitted to Pace for analytical analysis of total volatile petroleum hydrocarbons (TVPH) and BTEX.

O&M – Pilot Trailer Skid [SVE/Air Sparge Combined]

On July 12th, 24th, August 7th, 20th, 26th, September 24th, October 7th, and November 1st, and 11th, 2024, WSP personnel completed O&M activities at the Site. O&M activities were completed on a pilot trailer skid equipped with a gas-powered blower and compressor connected to SVE wells and the air sparge (AS) well AS1. The blower was configured to the shallow stack wells (SVE3, SVE4, and SVE6) from July 12th to July 24th, Augst 26th to September 24th, and November 1st to November 11th. The configuration was rotated to the deep stack wells (SVE1, SVE2, and SVE5) from August 7th to August 26th, October 7th and November 25th. The compressor was connected to AS1 throughout these activities throughout the 3Q and 4Q except on November 1st, and 11th.The compressor was unable to start despite troubleshooting on November 1st and 11th and was subsequently moved to Rifle Equipment LLC (RE) of Rifle, Colorado for repairs and general maintenance/upkeep. Due to the issues with running the compressor, O&M was completed with the SVE only on November 1st and 11th, and was not run with the pilot skid at all after the November 11th visit as the trailer was mobilized to RE. O&M activities included monitoring the blower and compressor alternating between the deep/shallow well assembly, documenting the system runtime hours at the AS1 well location, and adjusting/recording the system flow, applied vacuum (SVE), and applied pressure (AS).

During O&M activities, headspace VOC measurements were collected using a PID from the stack and nearby observation monitoring wells which included locations SB02-TB, MW-08, and MW-09. PID readings ranged from 0.0 ppm in MW-08, MW-09, and SB02-TB to greater than 1,000 ppm in the stack. Additionally, during O&M activities, depth to water was measured during each site visit to gauge subsurface influence of soil and groundwater to volatilize the entrained hydrocarbons. During the 3Q and 4Q of 2024, the pilot trailer skid (blower and compressor units combined) operated for a total of 56.5 hours.

An air sample was collected from the pilot trailer skid on July 24, 2024 [20240724-J17E-(PS-EFF)], and November 1st, 2024 [20241101-J17E-(PS-EFF)]. The SVE stack during this event was a combination of the most impacted shallow and deep wells and collected as previously described above. The PID measurement at the time of air sample collection ranged from 1,328 ppm to 1,842 ppm. The air sample was sent to Pace to be analyzed for constituents TVPH and BTEX.

Air Emissions

Historically, combined estimated TVPH air emissions of the two systems currently in operation at the Site is calculated based on the previous air samples that were submitted for laboratory analysis and PID measurements. The air samples submitted for laboratory analysis previously include samples from the solar trailer skid (4th quarter 2021 and 1st quarter 2022) and samples from the pilot trailer skid (1st, 2nd, and 3rd quarters 2022). A site-specific laboratory TVPH to PID correlation was created to estimate emissions when laboratory analytical results were not obtained by regular air sample collection. As of the fourth quarter 2023, the air emissions associated with the two systems are individually estimated through the quarterly effluent exhaust sampling of TVPH. The air emissions of the two systems are then combined to confirm total mass removal.

The estimated combined TVPH air emissions resulting from volatilization of hydrocarbons during operation of the two systems during the 3Q of 2024 are 179 pounds and 4Q of 2024 are 93 pounds. During the 3Q of 2024, the two systems volatilized approximately 0.7 barrels (bbls) of hydrocarbons entrained in the subsurface. During the 4Q of 2024, the two systems volatilized approximately 0.4 bbls of hydrocarbons entrained in the surface. The total estimated combined TVPH air emissions resulting from volatilization of hydrocarbons during operation of the two systems since remediation began on December 20th, 2021, are 2,296 pounds. The rolling 12-month VOC emissions estimate (0.447 tons) is well below the Colorado Department of Public Health and Environment (CDPHE) air permitting threshold of 2 tons of VOCs per rolling 12-month period. Errors in the air emissions excel table were discovered and corrected during the 3Q and 4Q of 2024. An air analytical summary table and an air emissions summary is enclosed in Table 2. The laboratory analytical reports have been attached to the ECMC Supplemental Form 27 DN 404033674.

GROUNDWATER ANALYTICAL – J17E

Laboratory analytical results for all groundwater samples collected during the 3Q and 4Q sampling events on July 3rd, 2024, and (MW-01 through MW-10 and SB02-TB) were all below the laboratory detection limits for BTEX and polyaromatic hydrocarbons (PAHs) (specifically naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene). A summary of the groundwater laboratory analytical results is included in Table 3 and a map of all sampling locations and corresponding analytical results is included on Figure 3. The laboratory analytical reports have been attached to the ECMC Supplemental Form 27 DN 404033674.

CONCLUSIONS AND RECOMMENDATIONS – J17E

Site Monitoring and Maintenance Activities

WSP recommends that QB continue SVE/AS system operations to continue to remove entrained hydrocarbons from the subsurface soils and groundwater. With the addition of the five installed SVE wells, additional effluent air samples will be collected quarterly to monitor emissions concentrations.

Based on groundwater sample results collected in July and November of 2024 from well locations located within the release footprint (MW-08, MW-09, and SB02-TB), the continued runtime of the AS system associated with the pilot trailer skid is effectively enhancing the removal of the entrained hydrocarbons within the groundwater at the Site to concentrations below the ECMC Table 915-1 Cleanup Concentrations (CCs). This is the thirteenth consecutive quarter in which groundwater analytical results were reported either below the laboratory detection limit or within the ECMC Table 915-1 CCs for BTEX. Additionally, all groundwater samples collected within the remediation area (monitoring well locations MW-01, MW-04, MW-05, MW-06, MW-08, MW-09, MW-10, and SB02-TB) were submitted for additional analytes including 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene (DN 403588050) and all were reported below the laboratory detection limit.

Quarterly Monitoring Program Termination

WSP recommends that QB request the ECMC Director to approve the termination of quarterly monitoring and sampling of all monitoring wells at this location until subsurface soil remediation is completed. Once remediation is completed all remaining monitoring wells should be sampled and analyzed for BTEX, 1,2,4-trimethylbenzene, 1,3,5 trimethylbenzene, naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene. The reasonings for the termination of the quarterly groundwater monitoring of the quarterly monitoring program are stated below.

- Since the installation of MW-01 in April of 2021, and the installation of SB02-TB, MW-04, MW-05, MW-06, MW-08, MW-09, and MW-10 in September of 2021, each monitoring well has been sampled 13 consecutive quarters. During those 13 consecutive quarters, concentrations were either below the laboratory

detection limits or within the ECMC Table 915-1 concentrations for water. Detections of either BTEX, benzene, ethylbenzene, or total xylenes were last detected in SB02-TB, MW-04, MW-05, MW-06, MW-08, MW-09, and MW-10 on May 16, 2022. Detections of either BTEX, ethylbenzene, or total xylenes were last detected in MW-01 on July 26, 2023. However, these eight monitoring wells have gone 13 consecutive quarters of regulatory compliance with ECMC Table 915-1 CC standards. The detections can be referenced in Table 3. No LNAPL has been observed since the project inception.

- There are remaining soil polycyclic aromatic hydrocarbons (PAH) exceedances of ECMC Table 915-1 PGSSLCs of 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene in the remediation area soils at the Site. However, PAHs were not detected in any of the groundwater samples collected at the site in the past 13 consecutive quarters. This indicates that PAHs are not migrating into groundwater in the remediation area and appear to be entrained in the subsurface soils. WSP recommends that at the end of subsurface soil remediation, groundwater samples will be collected from all wells remaining at the site to confirm that the entrained hydrocarbons in the subsurface soils have not migrated into groundwater at this site. The monitoring well network will be maintained in the interim in the event hydrocarbon impacts are presumed to initiate migration to groundwater, sampling, and monitoring can resume.

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

Kind regards,

Parker Coit, P.G.
Lead Consultant, Geologist

Ben Herrmann
Associate Consultant, Geologist

Encl.

FIGURES

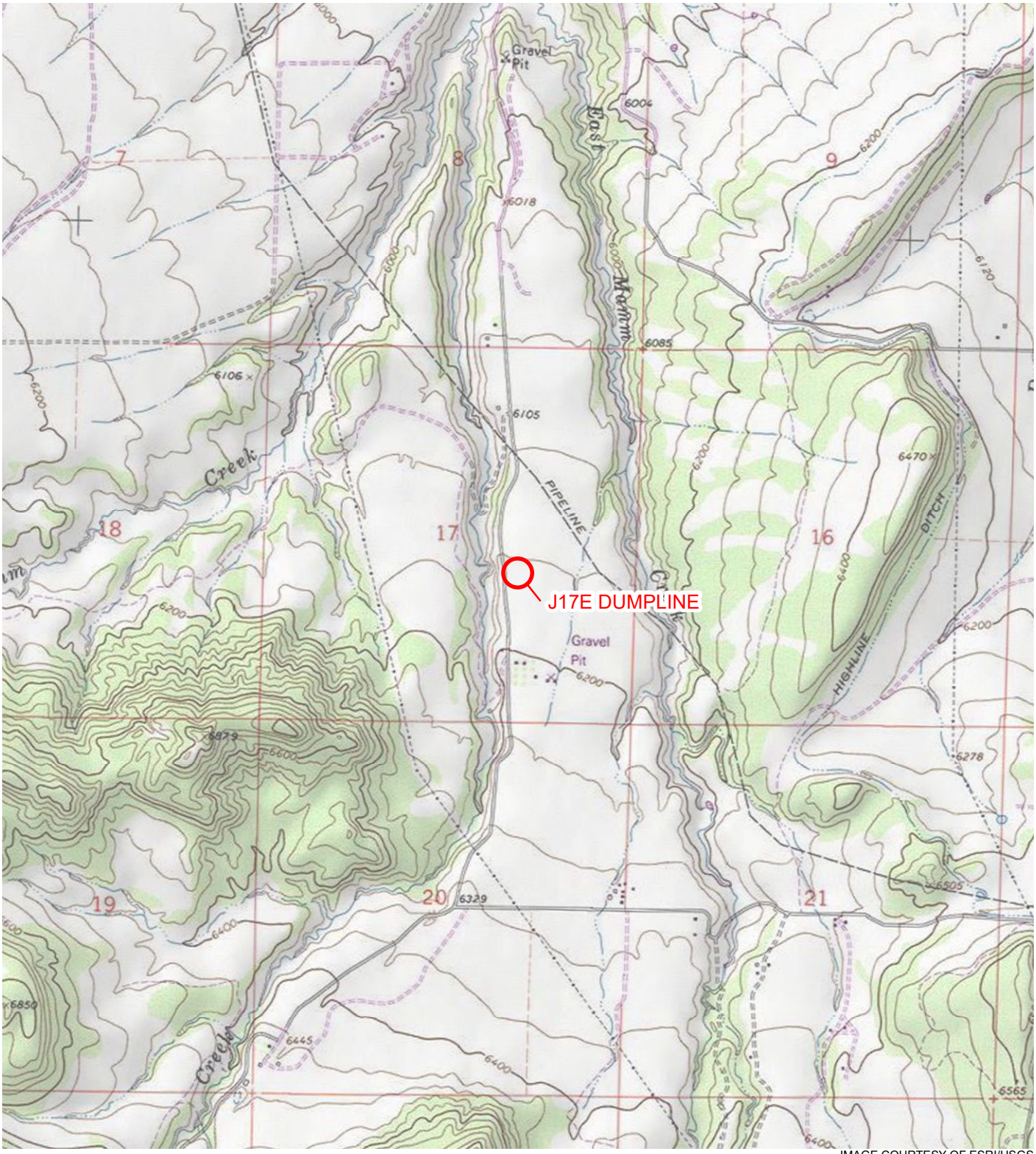


IMAGE COURTESY OF ESRI/USGS

LEGEND

SITE LOCATION

0 2,000 4,000

Feet

N

COLORADO

FIGURE 1
SITE LOCATION MAP
J17E DUMPLINE
NWSE SEC 17-T7S-R92W
GARFIELD COUNTY, COLORADO
QB ENERY LLC

wsp

C:\Users\UST689650\OneDrive - WSP O365\Caerus\TE050820038_J17E DUMPLINE\MXD\TE050820038_FIG01_SL_2021.mxd

LEGEND

- MONITORING WELL
- ESTIMATED GROUNDWATER FLOW DIRECTION
- RELATIVE GROUNDWATER ELEVATION CONTOUR
  - CONTOUR INTERVAL = 2.00 FEET
  - GRADIENT = 0.05 FEET/FOOT

GROUNDWATER ELEVATIONS WERE MEASURED ON JULY 3, 2024. MW-08, MW-09, & SB02-TB NOT INCLUDED IN DETERMINATION DUE TO INACCURATE TOC ELEVATIONS.

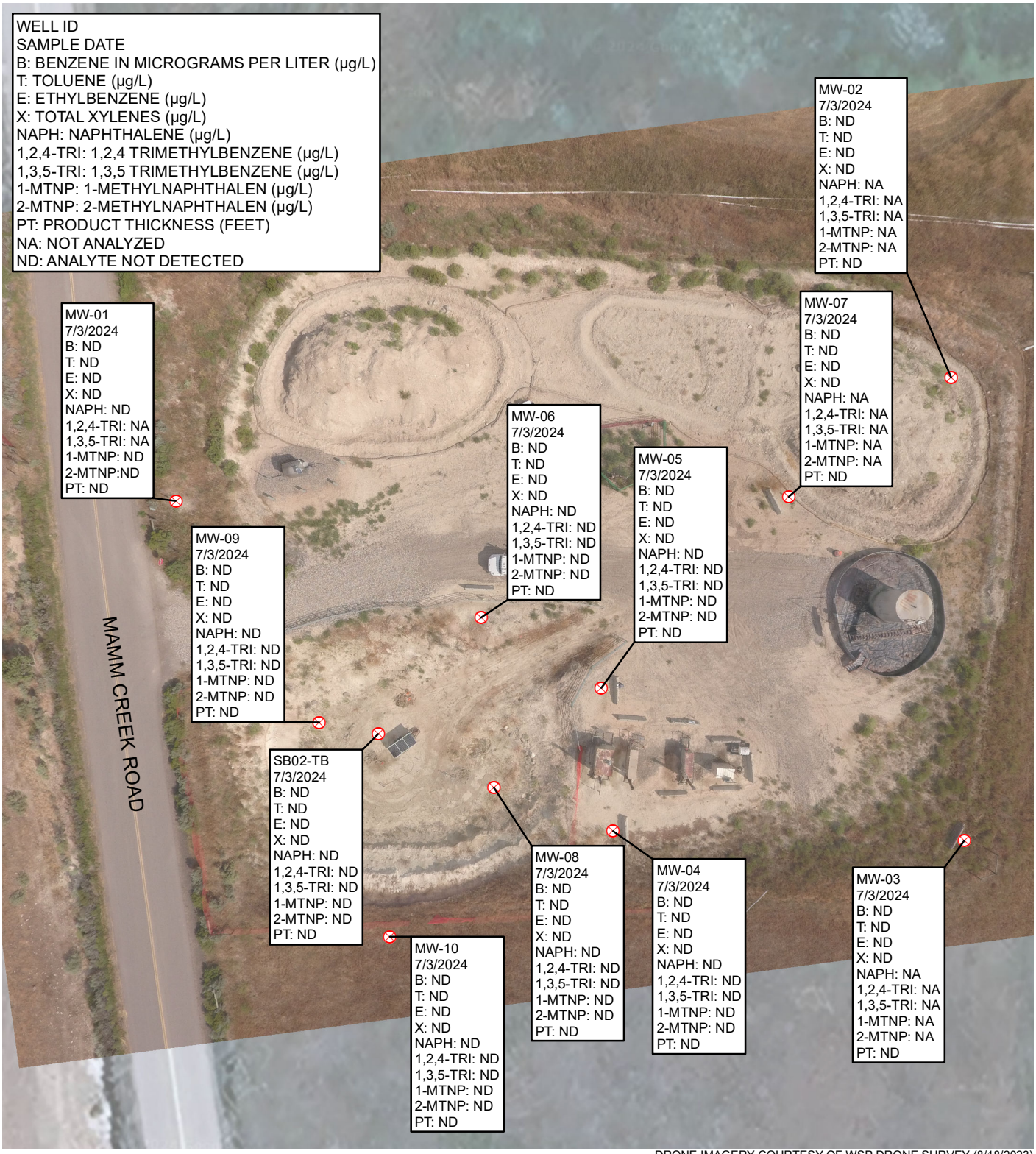
DRONE IMAGERY COURTESY OF WSP DRONE SURVEY (8/18/2023)
IMAGE COURTESY OF GOOGLE EARTH (2022)

0 50 100
Feet

N

FIGURE 2
RELATIVE GROUNDWATER ELEVATION MAP
J17E DUMPLINE
NWSE SEC 17-T7S-R92W
GARFIELD COUNTY, COLORADO
QB ENERY LLC

T:\Standard\gis\CaerusPiceanceLLC\J17E_Dumpline\Maps\MXDs\Report\2024\FIG02_GWE_JULY_2024.mxd



LEGEND

⊗ MONITORING WELL

DRONE IMAGERY COURTESY OF WSP DRONE SURVEY (8/18/2023)
IMAGE COURTESY OF GOOGLE EARTH (2022)

0 50 100
Feet

N

FIGURE 3
GROUNDWATER ANALYTICAL RESULTS
J17E DUMPLINE
NWSE SEC 17-T7S-R92W
GARFIELD COUNTY, COLORADO
QB ENERY LLC

T:\Standard\gis\CaerusPiceanceLLC\J17E_Dumpline\Maps\MXDs\Report\2024\FIG03_GWA_JULY_2024.mxd

LEGEND

- MONITORING WELL
- ESTIMATED GROUNDWATER FLOW DIRECTION
- RELATIVE GROUNDWATER ELEVATION CONTOUR
  - CONTOUR INTERVAL = 2.00 FEET
  - GRADIENT = 0.04 FEET/FOOT

GROUNDWATER ELEVATIONS WERE MEASURED ON 11/4/2024. MW-08, MW-09, & SB02-TB NOT INCLUDED IN DETERMINATION DUE TO INACCURATE TOC ELEVATIONS.

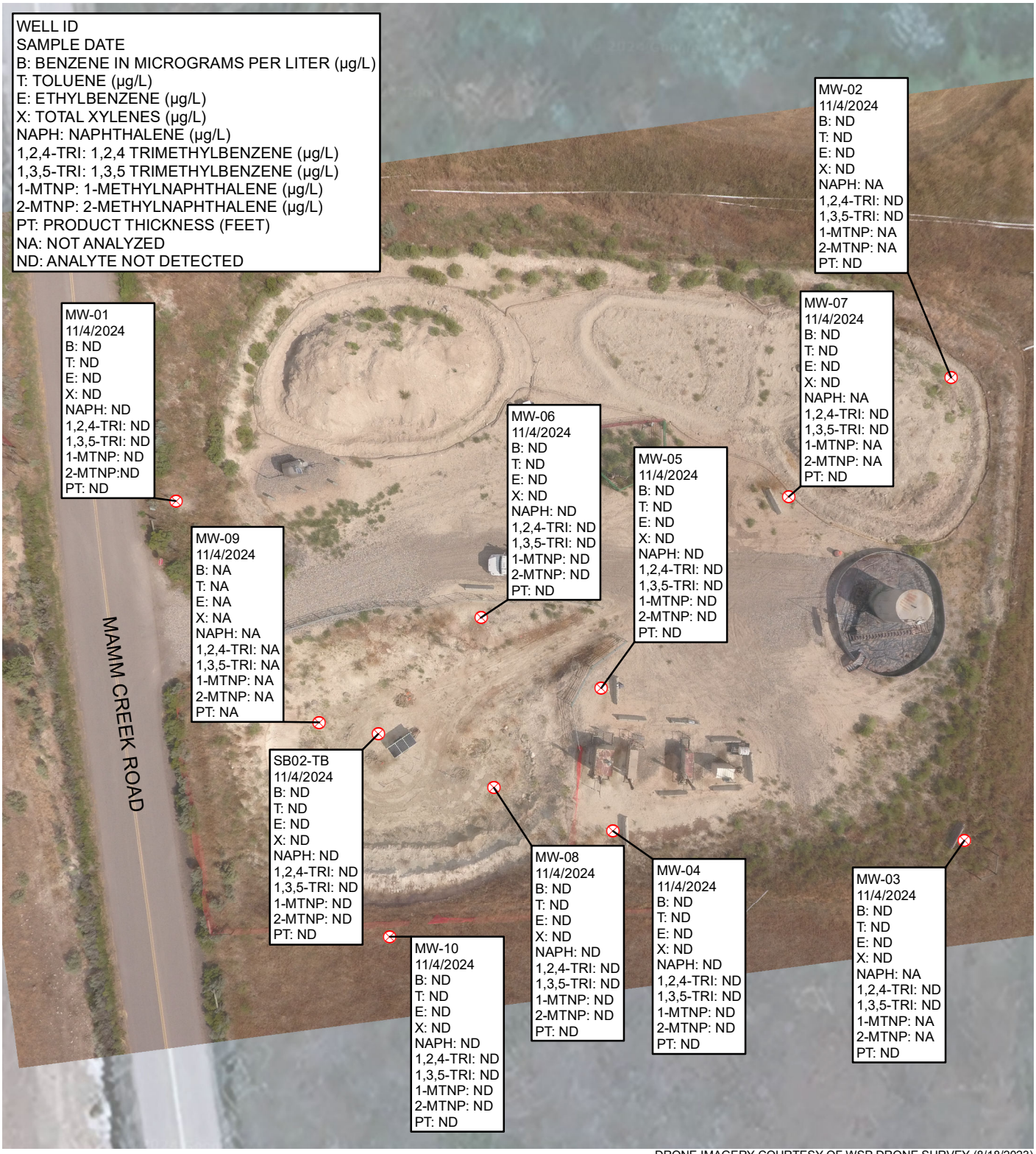
DRONE IMAGERY COURTESY OF WSP DRONE SURVEY (8/18/2023)
IMAGE COURTESY OF GOOGLE EARTH (2022)

0 50 100
Feet

N

FIGURE 2
RELATIVE GROUNDWATER ELEVATION MAP
J17E DUMPLINE
NWSE SEC 17-T7S-R92W
GARFIELD COUNTY, COLORADO
QB ENERY LLC

T:\Standard\gis\CaerusPiceanceLLC\J17E_Dumpline\Maps\MXDs\Report\2024\FIG02_GWE_NOV_2024.mxd



LEGEND

⊗ MONITORING WELL

DRONE IMAGERY COURTESY OF WSP DRONE SURVEY (8/18/2023)
IMAGE COURTESY OF GOOGLE EARTH (2022)

0 50 100
Feet

N

FIGURE 3
GROUNDWATER ANALYTICAL RESULTS
J17E DUMPLINE
NWSE SEC 17-T7S-R92W
GARFIELD COUNTY, COLORADO
QB ENERY LLC

T:\Standard\gis\CaerusPiceanceLLC\J17E_Dumpline\Maps\MXDs\Report\2024\FIG03_GWA_NOV_2024.mxd

TABLES

TABLE 1

GROUNDWATER ELEVATION DATA
J17E DUMPLINE
GARFIELD COUNTY, COLORADO
QB ENERGY LLC

Wells	Date	DTW TOC (feet)	DTP TOC (feet)	Product Thickness (feet)	TD TOC (feet)	TOC Elevation (feet)	GW Elevation (feet)
MW01	4/21/2021	72.60	ND	ND	75.44	6,177.94	6,105.34
	10/4/2021	73.16	ND	ND	77.56	6,177.94	6,104.78
	1/20/2022	73.30	ND	ND	77.49	6,177.94	6,104.64
	5/16/2022	73.28	ND	ND	NM	6,177.94	6,104.66
	8/22/2022	70.32	ND	ND	77.45	6,177.94	6,107.62
	10/17/2022	69.85	ND	ND	77.45	6,177.94	6,108.09
	2/1/2023	70.98	ND	ND	77.45	6,177.94	6,106.96
	4/18/2023	71.81	ND	ND	77.45	6,177.94	6,106.13
	7/25/2023	72.13	ND	ND	78.12	6,177.94	6,105.81
	10/25/2023	72.34	ND	ND	78.12	6,177.94	6,105.60
	1/17/2024	72.86	ND	ND	78.12	6,177.94	6,105.08
	4/2/2024	73.17	ND	ND	78.12	6,177.94	6,104.77
	7/3/2024	69.67	ND	ND	78.10	6,177.94	6,108.27
	11/4/2024	68.79	ND	ND	78.10	6,177.94	6,109.15
MW02	4/27/2021	66.52	ND	ND	68.36	6,175.57	6,109.05
	10/4/2021	66.81	ND	ND	68.39	6,175.57	6,108.76
	1/20/2022	66.88	ND	ND	68.30	6,175.57	6,108.69
	5/16/2022	66.51	ND	ND	NM	6,175.57	6,109.06
	8/22/2022	62.62	ND	ND	68.33	6,175.57	6,112.95
	10/17/2022	62.25	ND	ND	68.33	6,175.57	6,113.32
	2/1/2023	64.97	ND	ND	68.33	6,175.57	6,110.60
	4/18/2023	65.10	ND	ND	68.33	6,175.57	6,110.47
	7/25/2023	65.16	ND	ND	68.94	6,175.57	6,110.41
	10/25/2023	65.64	ND	ND	68.94	6,175.57	6,109.93
	1/17/2024	66.24	ND	ND	68.94	6,175.57	6,109.33
	4/2/2024	66.65	ND	ND	68.94	6,175.57	6,108.92
	7/3/2024	60.82	ND	ND	68.94	6,175.57	6,114.75
	11/4/2024	61.32	ND	ND	68.94	6,175.57	6,114.25
SB02-TB	4/2/2021	52.21	ND	ND	55.21	6,167.77	6,115.56
	10/4/2021	54.99	ND	ND	57.14	6,167.77	6,112.78
	1/20/2022	55.26	ND	ND	57.04	6,167.77	6,112.51
	3/4/2022	55.15	ND	ND	57.30	6,167.77	6,112.62
	3/25/2022	55.42	ND	ND	57.04	6,167.77	6,112.35
	5/16/2022	54.89	ND	ND	NM	6,167.77	6,112.88
	8/22/2022	52.44	ND	ND	57.12	6,167.77	6,115.33
	10/17/2022	52.09	ND	ND	57.12	6,167.77	6,115.68
	2/1/2023	52.97	ND	ND	57.12	6,167.77	6,114.80
	4/18/2023	53.57	ND	ND	57.12	6,167.77	6,114.20
	7/25/2023	53.67	ND	ND	56.95	6,167.77	6,114.10
	10/25/2023	53.82	ND	ND	56.95	6,167.77	6,113.95
	1/17/2024	54.25	ND	ND	56.95	6,167.77	6,113.52
	4/2/2024	54.72	ND	ND	56.95	6,167.77	6,113.05
	7/3/2024	56.50	ND	ND	61.75	6,167.77	6,111.27
	11/4/2024	61.06	ND	ND	67.09	6,167.77	6,106.71

TABLE 1

GROUNDWATER ELEVATION DATA
J17E DUMPLINE
GARFIELD COUNTY, COLORADO
QB ENERGY LLC

Wells	Date	DTW TOC (feet)	DTP TOC (feet)	Product Thickness (feet)	TD TOC (feet)	TOC Elevation (feet)	GW Elevation (feet)
MW03	8/26/2021	64.70	ND	ND	72.80	6180.11	6,115.41
	10/4/2021	64.84	ND	ND	72.78	6180.11	6,115.27
	1/20/2022	65.14	ND	ND	72.34	6180.11	6,114.97
	5/16/2022	64.45	ND	ND	NM	6180.11	6,115.66
	8/22/2022	61.10	ND	ND	71.76	6180.11	6,119.01
	10/17/2022	60.86	ND	ND	71.76	6180.11	6,119.25
	2/1/2023	62.55	ND	ND	71.76	6180.11	6,117.56
	4/18/2023	63.48	ND	ND	71.76	6180.11	6,116.63
	7/25/2023	63.21	ND	ND	71.84	6180.11	6,116.90
	10/25/2023	63.64	ND	ND	71.84	6180.11	6,116.47
	1/17/2024	64.21	ND	ND	71.84	6180.11	6,115.90
	4/2/2024	64.46	ND	ND	71.84	6180.11	6,115.65
	7/3/2024	59.33	ND	ND	71.84	6180.11	6,120.78
	11/4/2024	59.73	ND	ND	71.84	6180.11	6,120.38
MW04	9/7/2021	62.90	ND	ND	69.02	6177.55	6,114.65
	10/4/2021	62.96	ND	ND	69.04	6177.55	6,114.59
	1/20/2022	63.28	ND	ND	68.68	6177.55	6,114.27
	5/16/2022	62.95	ND	ND	NM	6177.55	6,114.60
	8/22/2022	60.34	ND	ND	69.00	6177.55	6,117.21
	10/17/2022	60.02	ND	ND	69.00	6177.55	6,117.53
	2/1/2023	61.06	ND	ND	69.00	6177.55	6,116.49
	4/18/2023	61.88	ND	ND	69.00	6177.55	6,115.67
	7/25/2023	61.81	ND	ND	69.11	6177.55	6,115.74
	10/25/2023	62.04	ND	ND	69.11	6177.55	6,115.51
	1/17/2024	62.51	ND	ND	69.11	6177.55	6,115.04
	4/2/2024	62.77	ND	ND	69.11	6177.55	6,114.78
	7/3/2024	59.08	ND	ND	69.10	6177.55	6,118.47
	11/4/2024	59.09	ND	ND	69.10	6177.55	6,118.46
MW05	8/27/2021	65.00	ND	ND	68.00	6178.33	6,113.33
	10/4/2021	65.00	ND	ND	70.49	6178.33	6,113.33
	1/20/2022	65.25	ND	ND	70.28	6178.33	6,113.08
	5/16/2022	64.92	ND	ND	NM	6178.33	6,113.41
	8/22/2022	62.14	ND	ND	69.88	6178.33	6,116.19
	10/17/2022	61.71	ND	ND	69.88	6178.33	6,116.62
	2/1/2023	62.95	ND	ND	69.88	6178.33	6,115.38
	4/18/2023	63.66	ND	ND	69.88	6178.33	6,114.67
	7/25/2023	63.62	ND	ND	69.26	6178.33	6,114.71
	10/25/2023	63.83	ND	ND	69.26	6178.33	6,114.50
	1/17/2024	64.19	ND	ND	69.26	6178.33	6,114.14
	4/2/2024	64.50	ND	ND	69.26	6178.33	6,113.83
	7/3/2024	60.88	ND	ND	69.20	6178.33	6,117.45
	11/4/2024	60.78	ND	ND	69.20	6178.33	6,117.55

TABLE 1

GROUNDWATER ELEVATION DATA
J17E DUMPLINE
GARFIELD COUNTY, COLORADO
QB ENERGY LLC

Wells	Date	DTW TOC (feet)	DTP TOC (feet)	Product Thickness (feet)	TD TOC (feet)	TOC Elevation (feet)	GW Elevation (feet)
MW06	8/31/2021	67.10	ND	ND	73.14	6178.22	6,111.12
	10/4/2021	67.00	ND	ND	73.06	6178.22	6,111.22
	1/20/2022	67.16	ND	ND	73.02	6178.22	6,111.06
	5/16/2022	66.92	ND	ND	NM	6178.22	6,111.30
	8/22/2022	64.19	ND	ND	72.95	6178.22	6,114.03
	10/17/2022	63.82	ND	ND	72.95	6178.22	6,114.40
	2/1/2023	63.29	ND	ND	72.95	6178.22	6,114.93
	4/18/2023	65.69	ND	ND	72.95	6178.22	6,112.53
	7/25/2023	65.65	ND	ND	73.59	6178.22	6,112.57
	10/25/2023	65.90	ND	ND	73.59	6178.22	6,112.32
	1/17/2024	66.33	ND	ND	73.59	6178.22	6,111.89
	4/2/2024	66.65	ND	ND	73.59	6178.22	6,111.57
	7/3/2024	63.20	ND	ND	73.50	6178.22	6,115.02
	11/4/2024	62.84	ND	ND	73.50	6178.22	6,115.38
MW07	8/26/2021	66.72	ND	ND	70.50	6177.77	6,111.05
	10/4/2021	66.62	ND	ND	69.57	6177.77	6,111.15
	1/20/2022	66.78	ND	ND	70.58	6177.77	6,110.99
	5/16/2022	66.41	ND	ND	NM	6177.77	6,111.36
	8/22/2022	63.09	ND	ND	70.55	6177.77	6,114.68
	10/17/2022	62.75	ND	ND	70.55	6177.77	6,115.02
	2/1/2023	64.19	ND	ND	70.55	6177.77	6,113.58
	4/18/2023	65.01	ND	ND	70.55	6177.77	6,112.76
	7/25/2023	65.00	ND	ND	70.72	6177.77	6,112.77
	10/25/2023	65.37	ND	ND	70.72	6177.77	6,112.40
	1/17/2024	65.93	ND	ND	70.72	6177.77	6,111.84
	4/2/2024	66.32	ND	ND	70.72	6177.77	6,111.45
	7/3/2024	61.72	ND	ND	70.70	6177.77	6,116.05
	11/4/2024	61.71	ND	ND	70.70	6177.77	6,116.06
MW08	9/7/2021	53.50	ND	ND	59.30	6167.64	6,114.14
	10/4/2021	53.54	ND	ND	59.43	6167.64	6,114.10
	1/20/2022	53.85	ND	ND	59.37	6167.64	6,113.79
	5/16/2022	53.45	ND	ND	NM	6167.64	6,114.19
	8/22/2022	51.02	ND	ND	58.74	6167.64	6,116.62
	10/17/2022	50.75	ND	ND	58.74	6167.64	6,116.89
	2/1/2023	51.65	ND	ND	58.74	6167.64	6,115.99
	4/18/2023	52.25	ND	ND	58.74	6167.64	6,115.39
	7/25/2023	52.24	ND	ND	57.94	6167.64	6,115.40
	10/25/2023	52.50	ND	ND	57.94	6167.64	6,115.14
	1/17/2024	52.84	ND	ND	57.94	6167.64	6,114.80
	4/2/2024	53.19	ND	ND	57.94	6167.64	6,114.45
	7/3/2024	54.89	ND	ND	63.25	NA	NA
	11/4/2024	59.51	ND	ND	63.25	NA	NA

TABLE 1

GROUNDWATER ELEVATION DATA
J17E DUMPLINE
GARFIELD COUNTY, COLORADO
QB ENERGY LLC

Wells	Date	DTW TOC (feet)	DTP TOC (feet)	Product Thickness (feet)	TD TOC (feet)	TOC Elevation (feet)	GW Elevation (feet)
MW09	9/7/2021	55.75	ND	ND	60.10	6167.87	6,112.12
	10/4/2021	55.83	ND	ND	60.00	6167.87	6,112.04
	1/20/2022	56.01	ND	ND	60.12	6167.87	6,111.86
	5/16/2022	55.74	ND	ND	NM	6167.87	6,112.13
	8/22/2022	53.35	ND	ND	59.55	6167.87	6,114.52
	10/17/2022	53.05	ND	ND	59.55	6167.87	6,114.82
	2/1/2023	53.99	ND	ND	59.55	6167.87	6,113.88
	4/18/2023	54.51	ND	ND	59.55	6167.87	6,113.36
	7/25/2023	54.51	ND	ND	59.44	6167.87	6,113.36
	10/25/2023	54.71	ND	ND	59.44	6167.87	6,113.16
	1/17/2024	55.11	ND	ND	59.44	6167.87	6,112.76
	4/2/2024	55.44	ND	ND	59.44	6167.87	6,112.43
	7/3/2024	57.28	ND	ND	64.15	NA	NA
	11/4/2024	61.71	ND	ND	64.15	NA	NA
MW10	9/7/2021	67.20	ND	ND	72.85	6182.15	6,114.95
	10/4/2021	67.40	ND	ND	72.86	6182.15	6,114.75
	1/20/2022	67.70	ND	ND	72.86	6182.15	6,114.45
	5/16/2022	67.37	ND	ND	NM	6182.15	6,114.78
	8/22/2022	65.17	ND	ND	72.75	6182.15	6,116.98
	10/17/2022	64.81	ND	ND	72.75	6182.15	6,117.34
	2/1/2023	64.08	ND	ND	72.75	6182.15	6,118.07
	4/18/2023	66.35	ND	ND	72.75	6182.15	6,115.80
	7/25/2023	66.32	ND	ND	72.14	6182.15	6,115.83
	10/25/2023	66.58	ND	ND	72.14	6182.15	6,115.57
	1/17/2024	66.96	ND	ND	72.14	6182.15	6,115.19
	4/2/2024	67.24	ND	ND	72.14	6182.15	6,114.91
	7/3/2024	64.11	ND	ND	72.14	6182.15	6,118.04
	11/4/2024	64.00	ND	ND	72.14	6182.15	6,118.15

Notes:
DTW - Depth to Water
DTP - Depth to Product
TOC - Top of Casing
NA - No Assocaited Groundwater Elevation
TD - Total Depth
GW - Groundwater
ND - Not Detected
NM- Not Measured

TABLE 2

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	1,093,645	133,353	12.4	77.2	1.41	72.90	NA	5,580	883
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

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
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

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	
	4th Qtr 2023 to 4th Qtr 2024									
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	1,385.4	243.7	0.0001	0.0003	0.0000	0.0003	0.0232	NA	0.4769	
	Solar Skid Sum:		0.0012	0.0041	0.0002	0.0020	0.4769	NA		0.222
Pilot Skid										
Historical Data 4th Qtr 2023 to 2nd Qtr 2024			0.004	0.006	0.000	0.001	0.446	NA	0.446	
	4th Qtr 2023 to 4th Qtr 2024									
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	0.0003	0.0000	0.0002	0.0232	NA	0.6710	
	Pilot Skid Sum		0.0044	0.0086	0.0002	0.0030	0.6710	NA		0.225
Total Emissions										
	Total Emissions		**0.006**	**0.013**	**0.000**	**0.005**	**1.148**	**NA**	**0.000**	**0.447**

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 - photo-ionization detector
ppm - part per million
ND - not detected
NA - not analyzed

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
J17E
GARFIELD COUNTY, COLORADO
QB ENERGY LLC

		Groundwater Analytical Results											
Analyte		Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	1,2,4-TMB	1,3,5-TMB	1-MTNP	2-MTNP	TDS	Chloride	Sulfate
ECMC 915-1 PROTECTION OF GW		*0.005*	*0.560*	*0.7*	*1.400*	*0.140*	*0.067*	*0.067*	*1.1**	*3.6**	*1.25 x BG*	*1.25 x BG*	*1.25 x BG*
Units		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sample Name	Sample Date												
20210330-J17E (SB-01)	3/30/2021	0.00123	0.000868	ND	0.000336	ND	NA	NA	NA	NA	813	9.04	103
20210331-J17E (SB02-TB)	3/31/2021	0.0547	0.0214	0.00186	0.0104	ND	0.000663	0.000587	NA	NA	910	22	96.1
20210402-J17E (SB02-TB)	4/02/2021	0.0294	0.0109	0.000707	0.0034	ND	ND	0.000149	NA	NA	886	13.9	102
20211004-J17E (SB02-TB)	10/04/2021	0.186	0.0944	0.00118	0.0144	ND	ND	0.000291	NA	NA	869	9.18	96.7
20220122-J17E(SB02-TB)	1/20/2022	0.028	0.0106	ND	ND	NA	ND	ND	NA	NA	779	10	97.9
20220304-J17E(SB02-TB)	3/04/2022	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20220325-J17E(SB02-TB)	3/25/2022	0.0061	0.0024	ND	0.000897	NA	NA	NA	NA	NA	NA	NA	NA
20220516-J17E(SB02-TB)	5/16/2022	0.000423	ND	0.000425	0.00145	NA	NA	NA	NA	NA	NA	NA	NA
20220822-J17E(SB02-TB)	8/22/2022	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20221018-J17E (SB02-TB)	10/18/2022	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230202-J17E (SB02-TB)	2/02/2023	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230420-J17E (SB02-TB)	4/20/2023	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230726-J17E (SB02-TB)	7/26/2023	ND	ND	ND	ND	ND	NA	NA	ND	ND	NA	NA	NA
20231025-J17E (SB02-TB)	10/25/2023	ND	ND	ND	ND	ND	NA	NA	ND	ND	NA	NA	NA
20240117-MCWP-(J17E-SB02 TB)	1/17/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
20240402-MCWP-(J17E-SB02 TB)	4/02/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
20240703-MCWP-(J17E-SB02 TB)	7/03/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
20241104-MCWP-(J17E-SB02 TB)	11/04/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
20210421-J17E (MW-01)	4/21/2021	ND	ND	ND	ND	ND	ND	ND	NA	NA	1090	214	268
20211004-J17E (MW-01)	10/04/2021	0.000147	ND	ND	ND	ND	ND	ND	NA	NA	834	44.5	117
20220122-J17E (MW-01)	1/20/2022	ND	ND	ND	ND	ND	ND	ND	NA	NA	961	41.3	107
20220516-J17E (MW-01)	5/16/2022	ND	ND	0.000439	ND	NA	NA	NA	NA	NA	NA	NA	NA
20220822-J17E (MW-01)	8/22/2022	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20221018-J17E (MW-01)	10/18/2022	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230202-J17E (MW-01)	2/02/2023	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230420-J17E (MW-01)	4/20/2023	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230726-J17E (MW-01)	7/26/2023	ND	ND	0.000000149	0.000000383	ND	NA	NA	ND	ND	NA	NA	NA
20231025-J17E-(MW-01)	10/25/2023	ND	ND	ND	ND	ND	NA	NA	ND	ND	NA	NA	NA
20240117-MCWP-(J17E-MW01)	1/17/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
20240402-MCWP-(J17E-MW01)	4/02/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
20240703-MCWP-(J17E-MW01)	7/03/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
20241104-MCWP-(J17E-MW01)	11/04/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
20210427-J17E (MW-02)	4/27/2021	0.000238	0.00044	0.000192	0.000657	ND	ND	ND	NA	NA	910	6.81	98.6
20211004-J17E (MW-02)	10/04/2021	0.000101	ND	ND	ND	ND	ND	ND	NA	NA	833	6.73	98.3
20220122-J17E (MW-02)	1/20/2022	ND	ND	ND	ND	ND	ND	ND	NA	NA	776	6.65	109
20220516-J17E (MW-02)	5/16/2022	ND	ND	0.000443	ND	NA	NA	NA	NA	NA	NA	NA	NA
20220822-J17E (MW-02)	8/22/2022	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20221018-J17E (MW-02)	10/18/2022	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230202-J17E (MW-02)	2/02/2023	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230420-J17E (MW-02)	4/20/2023	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230726-J17E (MW-02)	7/26/2023	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20231025-J17E-(MW-02)	10/25/2023	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20240117-MCWP-(J17E-MW02)	1/17/2024	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20240402-MCWP-(J17E-MW02)	4/02/2024	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20240703-MCWP-(J17E-MW02)	7/03/2024	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20241104-MCWP-(J17E-MW02)	11/04/2024	ND	ND	ND	ND	NA	ND	ND	NA	NA	NA	NA	NA

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
J17E
GARFIELD COUNTY, COLORADO
QB ENERGY LLC

Groundwater Analytical Results

Analyte		Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	1,2,4-TMB	1,3,5-TMB	1-MTNP	2-MTNP	TDS	Chloride	Sulfate
ECMC 915-1 PROTECTION OF GW		*0.005*	*0.560*	*0.7*	*1.400*	*0.140*	*0.067*	*0.067*	*1.1**	*3.6**	*1.25 x BG*	*1.25 x BG*	*1.25 x BG*
Units		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sample Name	**Sample Date**												
20210826-J17E (MW-03)	8/26/2021	0.000236	0.00124	0.000406	0.00151	ND	0.000495	0.000139	NA	NA	829	9.46	101
20211004-J17E (MW-03)	10/04/2021	ND	ND	ND	ND	ND	ND	ND	NA	NA	797	7.96	97.8
20220122-J17E (MW-03)	1/20/2022	ND	ND	ND	ND	ND	ND	ND	NA	NA	756	7.30	99
20220516-J17E (MW-03)	5/16/2022	ND	ND	0.000487	0.000649	NA	NA	NA	NA	NA	NA	NA	NA
20220822-J17E (MW-03)	8/22/2022	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20221018-J17E (MW-03)	10/18/2022	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230202-J17E (MW-03)	2/02/2023	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230420-J17E (MW-03)	4/20/2023	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230726-J17E (MW-03)	7/26/2023	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20231025-J17E-(MW-03)	10/25/2023	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20240117-MCWP-(J17E-MW03)	1/17/2024	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20240402-MCWP-(J17E-MW03)	4/02/2024	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20240703-MCWP-(J17E-MW03)	7/03/2024	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20241104-MCWP-(J17E-MW03)	11/04/2024	ND	ND	ND	ND	NA	ND	ND	NA	NA	NA	NA	NA
20210907-J17E (MW-04)	9/07/2021	ND	ND	ND	0.000188	ND	ND	ND	NA	NA	772	10.5	98.9
20211004-J17E (MW-04)	10/04/2021	ND	ND	ND	ND	ND	ND	ND	NA	NA	827	10.2	96.7
20220122-J17E (MW-04)	1/20/2022	ND	ND	ND	ND	ND	ND	ND	NA	NA	768	9.01	99.0
20220516-J17E (MW-04)	5/16/2022	ND	ND	0.000456	0.000771	NA	NA	NA	NA	NA	NA	NA	NA
20220822-J17E (MW-04)	8/22/2022	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20221018-J17E (MW-04)	10/18/2022	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230202-J17E (MW-04)	2/02/2023	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230420-J17E (MW-04)	4/20/2023	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230726-J17E (MW-04)	7/26/2023	ND	ND	ND	ND	ND	NA	NA	ND	ND	NA	NA	NA
20231025-J17E-(MW-04)	10/25/2023	ND	ND	ND	ND	ND	NA	NA	ND	ND	NA	NA	NA
20240117-MCWP-(J17E-MW04)	1/17/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
20240402-MCWP-(J17E-MW04)	4/02/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
20240703-MCWP-(J17E-MW04)	7/03/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
20241104-MCWP-(J17E-MW04)	11/04/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
20210827-J17E (MW-05)	8/27/2021	ND	ND	ND	ND	ND	ND	ND	NA	NA	885	10.3	101
20211004-J17E (MW-05)	10/04/2021	0.000098	ND	ND	ND	ND	ND	ND	NA	NA	829	10.1	95.3
20220122-J17E (MW-05)	1/20/2022	ND	ND	ND	ND	ND	ND	ND	NA	NA	760	9.38	99.7
20220516-J17E (MW-05)	5/16/2022	ND	ND	0.000479	0.001	NA	NA	NA	NA	NA	NA	NA	NA
20220822-J17E (MW-05)	8/22/2022	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20221018-J17E (MW-05)	10/18/2022	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230202-J17E (MW-05)	2/02/2023	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230420-J17E (MW-05)	4/20/2023	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230726-J17E (MW-05)	7/26/2023	ND	ND	ND	ND	ND	NA	NA	ND	ND	NA	NA	NA
20231025-J17E-(MW-05)	10/25/2023	ND	ND	ND	ND	ND	NA	NA	ND	ND	NA	NA	NA
20240117-MCWP-(J17E-MW05)	1/17/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
20240402-MCWP-(J17E-MW05)	4/02/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
20240703-MCWP-(J17E-MW05)	7/03/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
20241104-MCWP-(J17E-MW05)	11/04/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
J17E
GARFIELD COUNTY, COLORADO
QB ENERGY LLC

Groundwater Analytical Results

Analyte		Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	1,2,4-TMB	1,3,5-TMB	1-MTNP	2-MTNP	TDS	Chloride	Sulfate
ECMC 915-1 PROTECTION OF GW		*0.005*	*0.560*	*0.7*	*1.400*	*0.140*	*0.067*	*0.067*	*1.1**	*3.6**	*1.25 x BG*	*1.25 x BG*	*1.25 x BG*
Units		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sample Name	**Sample Date**												
20210831-J17E (MW-06)	8/31/2021	ND	ND	ND	ND	ND	ND	ND	NA	NA	833	11.3	96.5
20211004-J17E (MW-06)	10/04/2021	0.000104	ND	ND	ND	ND	ND	ND	NA	NA	777	10.4	98.1
20220122-J17E (MW-06)	1/20/2022	ND	ND	ND	ND	ND	ND	ND	NA	NA	799	10.9	98.4
20220516-J17E (MW-06)	5/16/2022	ND	ND	0.000498	0.00122	NA	NA	NA	NA	NA	NA	NA	NA
20220822-J17E (MW-06)	8/22/2022	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20221018-J17E (MW-06)	10/18/2022	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230202-J17E (MW-06)	2/02/2023	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230420-J17E (MW-06)	4/20/2023	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230726-J17E (MW-06)	7/26/2023	ND	ND	ND	ND	ND	NA	NA	ND	ND	NA	NA	NA
20231025-J17E-(MW-06)	10/25/2023	ND	ND	ND	ND	ND	NA	NA	ND	ND	NA	NA	NA
20240117-MCWP-(J17E-MW06)	1/17/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
20240402-MCWP-(J17E-MW06)	4/02/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
20240703-MCWP-(J17E-MW06)	7/03/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
20241104-MCWP-(J17E-MW06)	11/04/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
20210826-J17E (MW-07)	8/26/2021	0.000128	0.000342	ND	0.000446	ND	ND	ND	NA	NA	843	8.94	103
20211004-J17E (MW-07)	10/04/2021	0.000161	ND	ND	0.000232	ND	ND	ND	NA	NA	516	8.97	97.8
20220122-J17E (MW-07)	1/20/2022	ND	ND	ND	ND	ND	ND	ND	NA	NA	788	8.38	106
20220516-J17E (MW-07)	5/16/2022	ND	ND	0.000437	0.000626	NA	NA	NA	NA	NA	NA	NA	NA
20220822-J17E (MW-07)	8/22/2022	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20221018-J17E (MW-07)	10/18/2022	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230202-J17E (MW-07)	2/02/2023	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230420-J17E (MW-07)	4/20/2023	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230726-J17E (MW-07)	7/26/2023	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20231025-J17E-(MW-07)	10/25/2023	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20240117-MCWP-(J17E-MW07)	1/17/2024	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20240402-MCWP-(J17E-MW07)	4/02/2024	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20240703-MCWP-(J17E-MW07)	7/03/2024	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20241104-MCWP-(J17E-MW07)	11/04/2024	ND	ND	ND	ND	NA	ND	ND	NA	NA	NA	NA	NA
20210907-J17E (MW-08)	9/07/2021	ND	ND	ND	ND	ND	ND	ND	NA	NA	803	10.3	100
20211004-J17E (MW-08)	10/04/2021	0.000134	ND	ND	ND	ND	ND	ND	NA	NA	1230	10.7	95.3
20220122-J17E (MW-08)	1/20/2022	ND	ND	ND	ND	ND	ND	ND	NA	NA	803	9.05	99.3
20220516-J17E (MW-08)	5/16/2022	ND	ND	0.000425	ND	NA	NA	NA	NA	NA	NA	NA	NA
20220822-J17E (MW-08)	8/22/2022	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20221018-J17E (MW-08)	10/18/2022	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230202-J17E (MW-08)	2/02/2023	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230420-J17E (MW-08)	4/20/2023	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230726-J17E (MW-08)	7/26/2023	ND	ND	ND	ND	ND	NA	NA	ND	ND	NA	NA	NA
20231025-J17E-(MW-08)	10/25/2023	ND	ND	ND	ND	ND	NA	NA	ND	ND	NA	NA	NA
20240117-MCWP-(J17E-MW08)	1/17/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
20240402-MCWP-(J17E-MW08)	4/02/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
20240703-MCWP-(J17E-MW08)	7/03/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
20241104-MCWP-(J17E-MW08)	11/04/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
J17E
GARFIELD COUNTY, COLORADO
QB ENERGY LLC

Groundwater Analytical Results

Analyte		Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	1,2,4-TMB	1,3,5-TMB	1-MTNP	2-MTNP	TDS	Chloride	Sulfate
ECMC 915-1 PROTECTION OF GW		*0.005*	*0.560*	*0.7*	*1.400*	*0.140*	*0.067*	*0.067*	*1.1**	*3.6**	*1.25 x BG*	*1.25 x BG*	*1.25 x BG*
Units		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sample Name	Sample Date												
20210907-J17E (MW-09)	9/07/2021	0.000196	0.000374	ND	0.000622	ND	ND	ND	NA	NA	797	11.5	102
20211004-J17E (MW-09)	10/04/2021	0.000111	ND	ND	ND	ND	ND	ND	NA	NA	800	11.8	99.8
20220122-J17E (MW-09)	1/20/2022	ND	ND	ND	ND	ND	ND	ND	NA	NA	795	13.1	106
20220516-J17E (MW-09)	5/16/2022	ND	ND	0.000469	ND	NA	NA	NA	NA	NA	NA	NA	NA
20220822-J17E (MW-09)	8/22/2022	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20221018-J17E (MW-09)	10/18/2022	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230202-J17E (MW-09)	2/02/2023	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230420-J17E (MW-09)	4/20/2023	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230726-J17E (MW-09)	7/26/2023	ND	ND	ND	ND	ND	NA	NA	ND	ND	NA	NA	NA
20231025-J17E-(MW-09)	10/25/2023	ND	ND	ND	ND	ND	NA	NA	ND	ND	NA	NA	NA
20240117-MCWP-(J17E-MW09)	1/17/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
20240402-MCWP-(J17E-MW09)	4/02/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
20240703-MCWP-(J17E-MW09)	7/03/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
20241104-MCWP-(J17E-MW09)	11/04/2024	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
20210907-J17E (MW-10)	9/07/2021	ND	ND	ND	ND	ND	ND	ND	NA	NA	819	10	100
20211004-J17E (MW-10)	10/04/2021	ND	ND	ND	ND	ND	ND	ND	NA	NA	824	9.79	99.1
20220122-J17E (MW-10)	1/20/2022	ND	ND	ND	ND	ND	ND	ND	NA	NA	767	9.09	104
20220516-J17E (MW-10)	5/16/2022	ND	ND	0.000432	ND	NA	NA	NA	NA	NA	NA	NA	NA
20220822-J17E (MW-10)	8/22/2022	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20221018-J17E (MW-10)	10/18/2022	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230202-J17E (MW-10)	2/02/2023	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230420-J17E (MW-10)	4/20/2023	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
20230726-J17E (MW-10)	7/26/2023	ND	ND	ND	ND	ND	NA	NA	ND	ND	NA	NA	NA
20231025-J17E-(MW-10)	10/25/2023	ND	ND	ND	ND	ND	NA	NA	ND	ND	NA	NA	NA
20240117-MCWP-(J17E-MW10)	1/17/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
20240402-MCWP-(J17E-MW10)	4/02/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
20240703-MCWP-(J17E-MW10)	7/03/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
20241104-MCWP-(J17E-MW10)	11/04/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA

Key:

< - Less than laboratory reported detection limit (RDL) or method detection limit (MDL) value

indicates result exceeds the ECMC concentration level

ECMC - Colorado Energy and Carbon Management Commission

mg/L - milligrams per liter

NA - analyte not analyzed

* - numerical standards implemented by the ECMC

TMB - trimethylbenzene

MTNP - methylnaphtalene

TDS - total dissolved solids

Revised: December 30, 2024