



Z-AREA SALTSTONE DISPOSAL FACILITY ANNUAL GROUNDWATER MONITORING REPORT FOR 2023 (U)

Class 3 Landfill Permit #025500-1603

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Table of Contents

1.0	Site Description and Background.....	1
2.0	Groundwater Monitoring.....	1
3.0	Groundwater Flow Direction and Rate.....	5
4.0	Groundwater Constituents and Parameters.....	6
5.0	Results.....	6
6.0	Discussion.....	7
7.0	Conclusions.....	14
8.0	References.....	15

List of Figures

Figure 1.	Z-Area Location Within the Savannah River Site.....	17
Figure 2.	Monitoring Well Locations at the Saltstone Disposal Facility (SDF).....	18
Figure 3.	1Q23 UAZ Water Table Elevations (ft-amsl).....	19
Figure 4.	1Q23 LAZ Water Level Elevations (ft-amsl).....	20
Figure 5.	3Q23 UAZ Water Table Elevations (ft-amsl).....	21
Figure 6.	3Q23 LAZ Water Level Elevations (ft-amsl).....	22
Figure 7.	Z-Area Water Table Elevations (ft-amsl).....	23
Figure 8.	Z-Area Cross Section with 3Q23 Water Table.....	24
Figure 9.	Approximate Nitrate Groundwater Plume (3Q23).....	25
Figure 10.	ZBG 2 / ZBG002D Conductivity, Nonvolatile Beta, Tc-99, and Nitrate Groundwater Trends.....	26
Figure 11.	Approximate Nonvolatile Beta Groundwater Plume (3Q23).....	27
Figure 12.	Approximate Tc-99 Groundwater Plume (3Q23).....	28
Figure 13.	ZBG Well Tritium Groundwater Trends.....	29

List of Tables

Table 1.	List of Routine Analytes and Parameters for the SDF.....	31
Table 2.	Complete GWPS Analyte List (WSRC 2005).....	32
Table 3.	Laboratory Results for Saltstone Wells (2023).....	33
Table 4.	Field Measurements for Saltstone Wells (2023).....	71
Table 5.	Water Elevations for Saltstone Wells (1Q23 & 3Q23).....	82

LIST OF ACRONYMS AND ABBREVIATIONS

~	approximately
1Q15	first quarter of 2015
1Q22	first quarter of 2022
1Q23	first quarter of 2023
3Q15	third quarter of 2015
3Q22	third quarter of 2022
3Q23	third quarter of 2023
amsl	above mean sea level
Bi-214	bismuth-214
biennial sampling	1 sample event (which may cross calendar quarters) every other year; odd years only.
Cs-137	cesium-137
<i>dh</i>	difference in head
<i>dl</i>	distance between wells
ft	feet
GSA	General Separations Area
GWPS	groundwater protection standard
I-129	iodine-129
in.	inch
<i>K</i>	hydraulic conductivity
<i>kg</i>	kilogram
LAZ	Lower Aquifer Zone
MCL	maximum contaminant level
MDL	method detection limit
µg/L	microgram per liter
µS/cm	microsiemens per centimeter
mg/L	milligram per liter
mrem	millirem
<i>n</i>	effective porosity
NTU	nephelometric turbidity units
Pb-214	lead-214
pCi/L	picocuries per liter
pCi/mL	picocuries per milliliter
PDWS	Primary Drinking Water Standard
PQL	practical quantitation limit
Pu-238	plutonium-238
Pu-239	plutonium-239
Ra-226	radium-226
Ra-228	radium-228
Rn-222	radon-222
SCDHEC	South Carolina Department of Health and Environmental Control
SDF	Saltstone Disposal Facility
SDU	Saltstone Disposal Unit
SDWS	Secondary Drinking Water Standard
semiannual sampling	2 sample events per year; 1 sample event may cross calendar quarters.
SPF	Saltstone Production Facility
SRNL	Savannah River National Laboratory
SRNS	Savannah River Nuclear Solutions, LLC
SRR	Savannah River Remediation, LLC
SRS	Savannah River Site
Sr-90	strontium-90
Tc-99	technetium-99
TCCZ	Tan Clay Confining Zone
Th-228	thorium-228
Th-230	thorium-230

LIST OF ACRONYMS AND ABBREVIATIONS (continued)

Th-232	thorium-232
UAZ	Upper Aquifer Zone
U-234	uranium-234
U-235	uranium-235
U-238	uranium-238
USEPA	United States Environmental Protection Agency
UTRA	Upper Three Runs Aquifer
<i>V</i>	groundwater flow
WSRC	Washington Savannah River Company, LLC (Oct. 2005 through Aug. 2008)
WSRC	Westinghouse Savannah River Company, LLC (before Oct. 2005)

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1.0 SITE DESCRIPTION AND BACKGROUND

The Savannah River Site (SRS) Saltstone Facility is located within Z-Area (238 acres) on the SRS in Aiken County and is operated by Savannah River Mission Completion, LLC for the U.S. Department of Energy (Figure 1). The Saltstone Facility consists of two facility segments: the Saltstone Production Facility (SPF), which receives and treats salt solution to produce solidified saltstone, and the Saltstone Disposal Facility (SDF), which consists of Saltstone Disposal Units (SDUs) used for the final disposal of the solidified saltstone. The SPF is permitted as a wastewater treatment facility per South Carolina Department of Health and Environmental Control (SCDHEC) regulations (SCDHEC 2011). The SDF is permitted as a Class 3 Landfill per SCDHEC regulations (SCDHEC 2011). The SDF currently contains two rectangular SDUs (SDU 1 and 4), formerly referred to as vaults, six smaller circular SDUs (SDU 2A&B, 3A&B, and 5A&B), and four large (>32 million gallon) circular SDUs (SDU 6, 7, 8, and 9) (Figure 2). Construction of SDU 10, another large >32-million gallon circular SDU, is currently underway.

2.0 GROUNDWATER MONITORING

In accordance with the SDF Class 3 Landfill permit (SCDHEC 2011), a groundwater monitoring plan is in place to monitor groundwater in the vicinity of the SDF (Westinghouse Savannah River Company, LLC [WSRC] 2005). Currently, twenty-two wells located up-gradient and down-gradient of the SDF (Figure 2) are sampled semiannually and biennially for the constituents and parameters listed in Table 1.

In 1987, wells ZBG 1 and ZBG 2 were installed to determine baseline groundwater chemistry in Z-Area. Construction of SDUs 1 and 4 was completed in February 1986 and July 1988, respectively. The SPF started radioactive operations in June 1990, and disposal into SDU 1 occurred between June 1990 and September 1996. Disposal into SDU 4 began in January 1997 and was discontinued in 2012. Wells ZBG 3, ZBG 4, and ZBG 5 were installed in 2003 to monitor SDUs 1 and 4. Wells ZBG 6, ZBG 7, and ZBG 8 were installed in 2007 to provide improved groundwater monitoring for SDU 1.

In 2012, six wells (ZBG009D thru ZBG014D) were installed to monitor SDUs 2, 3, and 5. A seventh well (ZBG015D) was also installed to provide an additional background well (Figure 2). SDU 2 was put into service in September 2012 and was completely filled in 2014. SDU 5 was put

into service in December 2013 and was completely filled in January 2017. SDU 3 was put into service in February 2017 and active filling continued into 2023. SDU 6 was put into service in August 2018 and active filling continued in 2023. Construction on SDU 7 was completed, approved for operation in July 2021, and actively being filled in 2023. SDU 6 and 7 are each designed to hold >32 million gallons of saltstone. Construction has recently been completed on SDU 8 and SDU 9, both are >32-million gallon SDUs. Construction of SDU 10 is in progress, and it will be a >32-million gallon SDU.

In 2014 and 2015, three additional wells and one replacement well were added to the SDF monitoring network, and one well was abandoned.

- Surface water and sediment contamination (i.e. plutonium-239 [Pu-239], plutonium-238 [Pu-238], uranium-238 [U-238], uranium-235 [U-235], uranium-234 [U-234], thorium-232 [Th-232], thorium-230 [Th-230], thorium-228 [Th-228], cesium-137 [Cs-137], iodine-129 [I-129], technetium-99 [Tc-99], tritium, nonvolatile beta, and gross alpha) was detected in 2011 in Sedimentation Basin #4 (Savannah River Nuclear Solutions, LLC [SRNS] 2012). Concerns of potential groundwater contamination from Sedimentation Basin #4 initiated the installation of a shallow well (ZBG016D) to monitor perched water in the vadose zone, and a deeper well (ZBG016C) to monitor groundwater.
- Stabilization efforts at SDU 4 (Vault 4) to prevent any future releases to the surface and subsurface included the following: 1) Xypex coating on walls; 2) Mega-Mix on wall-to-floor interface; 3) Drain water collection system; 4) Rain Shelters; 5) Trough catch pans; 6) Roof gutters and downspouts; 7) Rain shelter roof upgrades; 8) Clean grout caps in SDU 4 cells; and 9) Installation of elastomeric roof covering over remaining SDU 4 cells D, E, F, J, K, and L (Wilkerson 2014).
- Ultimately, well ZBG 2 was abandoned due to its potential as a pathway for contamination from the Upper Aquifer Zone (UAZ) into the Lower Aquifer Zone (LAZ) in the Upper Three Runs Aquifer (UTRA). Well ZBG 2 was replaced by well ZBG002D, which is screened entirely in the UAZ, and does not dissect through the Tan Clay Confining Zone (TCCZ).
- Deeper well ZBG002C was installed in the LAZ adjacent to shallow well ZBG 2, when contaminated water was observed at ZBG 2.

In the second quarter of 2017, four additional wells (ZBG017D, ZBG018D, ZBG019D, and ZBG020D) were added to the SDF monitoring network (Figure 2). Wells ZBG017D, ZBG018D and ZBG019D were installed to monitor SDU 6, SDU 7, and SDU 8. Well ZBG020D provides additional downgradient groundwater monitoring of SDU 4.

In December 2023 and January 2024, four additional wells (ZBG021D, ZBG022D, ZBG023D, and ZBG024D) were added to the SDF monitoring network (Figure 2). Well ZBG021D was installed to provide better down-gradient monitoring of SDU 8, which is scheduled to be placed into service in FY24. Wells ZBG022D, ZBG023 and ZBG024D were installed to monitor SDU 9.

The monitoring well network and monitoring plan for the SDF are designed to effectively detect any release associated with the SDUs. As additional SDUs (e.g., SDU 10) are constructed, or as conditions change at the facility, the monitoring network will be expanded accordingly.

Groundwater samples were collected during the first quarter of 2023 (1Q23) and third quarter of 2023 (3Q23) in accordance with the *Hydrogeologic Data Collection Procedures and Specifications* (SRNS 2019), and the samples were sent to SCDHEC certified labs for analyses. Two thresholds (8 picocuries/liter [pCi/L] and 30 pCi/L) are established for gross beta (i.e., nonvolatile beta) analyses as part of the *Groundwater Monitoring Plan for the Z-Area Saltstone Disposal Facility* (WSRC 2005). If the 8 pCi/L threshold is exceeded by a well sample, then the same well is to be resampled within 30 days for the Contingent Analysis 1 (Strontium-90 [Sr-90]) listed in Table 1. If the contingent Sr-90 analysis is above detection, then it will be added to the list of semiannual analytes. If the 30 pCi/L threshold is exceeded by a well sample, then the same well and the applicable background well (ZBG 1 or ZBG015D) are resampled within 30 days for the constituents listed as Contingent Analyses 2 in Table 1. If any contingent analyte is above maximum background well concentrations or the groundwater protection standard (GWPS), then it will be added to the list of semiannual analytes. If the following sample event confirms the contingent analyte(s) exceeds the maximum background concentration and GWPS, then a characterization plan to determine plume extent will be developed and submitted to SCDHEC within 60 days (WSRC 2005).

In addition, per the *Groundwater Monitoring Plan for the Z-Area Saltstone Disposal Facility* (WSRC 2005), if a GWPS is exceeded, SCDHEC will be notified promptly, and the well will be resampled within 30 days. If the exceedance is confirmed, all wells will be sampled for the complete GWPS list (Table 2; WSRC 2005) and an assessment monitoring plan will be submitted.

The first quarter of 2022 (1Q22) nitrate concentration at ZBG002D exceeded the GWPS (10 milligram per liter [mg/L]) for the first time, with a result of 15.4 mg/L, which was confirmed by re-sampling the well with a result of 14.4 mg/L. The 1Q23 sample results at ZBG002D demonstrated a decrease in Tc-99 activity, nitrate concentration, and specific conductance relative to third quarter of 2022 (3Q22). The 1Q23 nitrate concentration (10.9 mg/L) at ZBG002D still exceeded the GWPS (10 mg/L), but the 3Q23 nitrate concentration (4.44 mg/L) decreased to below the GWPS. These contaminants are related to a previous release from SDU 4 first reported in 2014, remain below the 2015 peak concentrations, and are now all below respective GWPS for Tc-99, nonvolatile beta, nitrate, and specific conductance. In response to the 2022 nitrate exceedance, and in accordance with the requirements of the *Groundwater Monitoring Plan for the Z-Area Saltstone Disposal Facility* (WSRC 2005), all SDF monitoring wells sampled in 3Q22 were analyzed for the complete GWPS list in Table 2 as well as the routine monitoring analytes in Table 1. Of the additional constituents analyzed, aluminum, and manganese exceeded their respective GWPS and background concentrations. Additionally, results for phenols exceeded background concentrations, which are used for comparison in the absence of a GWPS. Therefore, these three analytes are included in the routine analysis list (Table 1) for all SDF groundwater monitoring wells as semiannual constituents. As additional data is collected at the background wells, aluminum, manganese, and phenols may be identified as within background concentrations.

Additionally, the *Z-Area Groundwater Nitrate Characterization Sampling Plan (U)* was developed and submitted concurrently with the 2022 annual monitoring report (SRNS 2023a, SRNS 2023b). All SDF monitoring wells were sampled in 1Q23 and 3Q23, with the exception of ZBG016D which was dry both quarters. The 2023 samples were analyzed for the complete GWPS list in Table 1, which now includes aluminum, manganese, and phenols.

All the results for the 1Q23 and 3Q23 sampling events are included in Table 3 and maximum nitrate, nonvolatile beta, Tc-99 and tritium results for 1Q23 and 3Q23 are depicted in Figures 8 through 13.

3.0 GROUNDWATER FLOW DIRECTION AND RATE

The annual average rainfall at SRS from 1990 through 2021 is 47.4 inches (in.) (Savannah River National Laboratory [SRNL] 2021). As of November 30, 2023, SRS has received 57.92 in., based on SRNL Atmospheric Technologies Group data, which is approximately (~) 10.52 in. above the SRS annual average rainfall (47.4 in.). Water level data collected for 1Q23 and 3Q23 are presented in Figure 3 through Figure 6 for both the UAZ and LAZ. The water table elevation at SDU 1 is ~234 feet (ft) above mean sea level (amsl) and is ~230 ft-amsl at SDU 4. The water table at SDU 1 and SDU 4 indicate groundwater flow is to the northeast, groundwater flow at SDU 2 is to the north, and groundwater flow at SDUs 3 and 5 is to the northwest (Figures 3 - 6). Groundwater flow rates can be estimated using the distance and head difference between wells with the following equation:

$$V = \frac{K}{n} \times \frac{dh}{dl}$$

Where:

- V = Groundwater Flow (ft/day);
 - K = Hydraulic Conductivity (ft/day) = 13 ft/day^a;
 - n = Effective Porosity = 0.25^a;
 - dh = Difference in Head (ft) = 12.1 ft (1Q23);
 - dh = Difference in Head (ft) = 10.1 ft (3Q23); and
 - dl = Distance between Wells (ft) = 1,085 ft^b.
- a) In 2013 these parameters were changed to be consistent with the Performance Assessment modeling data in the SRS General Separations Area (GSA) (Washington Savannah River Company, LLC [WSRC] 2007).
 - b) Replacement well ZBG002D provides a better flow estimate for the water table and is now used for the distance (dl) between ZBG 7 and ZBG002D, as recommended by the H. Arlt (United States Nuclear Regulatory Commission) during a review of the SDF groundwater monitoring program (April 19, 2016).

The hydraulic conductivity (K) is 13 ft/day, and the effective porosity (n) value is 25 percent (WSRC 2007). The head difference (dh) between wells ZBG 7 and ZBG002D was 12.1 ft for 1Q23 and 10.1 ft for 3Q23. The horizontal distance (dl) is 1,085 ft, which is the distance between wells ZBG 7 and ZBG002D (Figure 2). The first quarter groundwater flow rates are calculated as follows:

$$V = \frac{13 \text{ ft/day}}{0.25} \times \frac{12.1 \text{ ft}}{1,085 \text{ ft}}$$

$$V = 0.57991 \text{ ft/day or } 211.7 \text{ ft/year}$$

The third quarter groundwater flow rates are calculated as follows:

$$V = \frac{13 \text{ ft/day}}{0.25} \times \frac{10.1 \text{ ft}}{1,085 \text{ ft}}$$

$$V = 0.484055 \text{ ft/day or } 176.7 \text{ ft/year}$$

The 1Q23 estimated groundwater flow rate (V) (211.7 ft/year) and 3Q23 estimated flow rate (176 ft/yr) are similar to the 3Q22 estimated flow rate (213.4 ft/year) (SRNS 2023a).

Wells ZBG 1 and ZBG 2 depict the long-term fluctuations in the water table elevation (Figure 7). The water table in the GSA is located in the UAZ. However, as the water table approaches McQueen's Branch and Upper Three Runs, the water table drops into the underlying LAZ of the UTRA (Figure 8). The TCCZ separates the LAZ from the overlying UAZ.

4.0 GROUNDWATER CONSTITUENTS AND PARAMETERS

In accordance with the Z-Area SDF Class 3 Landfill Permit (SCDHEC 2011), the monitoring wells were sampled during 1Q23 for the semiannual and biennial analytes listed in Table 1, and the monitoring wells were sampled during 3Q23 for the semiannual analytes listed in Table 1.

5.0 RESULTS

Groundwater samples were collected during the 1Q23 and 3Q23 sample events from the ten wells monitoring SDUs 1 and 4 and from the ten wells monitoring SDUs 2, 3, 5, 6, 7, and 8 (Figure 2). Wells ZBG017D, ZBG018D, ZBG019D established baseline groundwater chemistry for SDU 6, which was placed into service in August 2018, SDU 7, which was placed into service in July 2021, and SDU 8, which is scheduled to be placed into service in FY24. The laboratory results for all wells are presented in Table 3, the field measurements are presented in Table 4, and the water elevation data are presented in Table 5.

Groundwater samples were collected during the 1Q23 and 3Q23 sample events for well ZBG016C that monitors Sedimentation Basin #4 (Figure 2). Data collected to date at well ZBG016C, including the complete GWPS list in Table 2, indicate there have been no impacts to the groundwater at Sedimentation Basin #4. Well ZBG016D, also installed downgradient of Sedimentation Basin #4, is positioned on top of the TCCZ to monitor for potentially contaminated perched water in the vadose zone. Well ZBG016D was dry when sampling was conducted in 1Q23 and 3Q23; therefore no data are available for this well.

Groundwater monitoring results are compared to practical quantitation limits (PQLs), background concentrations, and GWPSs. PQLs are indicators of laboratory instrument sensitivity, but are not regulatory limits, nor are they risk-based. The PQL is the lowest concentration of an analyte which can be reliably quantified in a given sample. In contrast, the method detection limit (MDL) is the lowest concentration of an analyte that can be detected, but not quantified, in a given sample. Background concentrations are based on historical data from wells (ZBG 1 and ZBG015D) upgradient of the SDF. Likewise, wells ZBG012D, ZBG013D, ZBG014D, ZBG017D, ZBG018D and ZBG019D were sampled semiannually, prior to adjacent SDUs being placed into service, and established baseline conditions for these wells. Comparison with background is important because several SRS facilities are upgradient of the SDF. The GWPSs for the SDF are based on the United States Environmental Protection Agency (USEPA) Primary Drinking Water Standards (PDWS), proposed PDWS, or Secondary Drinking Water Standards (SDWS), and are listed in Table 1 and Table 2 (WSRC 2005). Unlike PQLs and background concentrations, GWPSs are regulatory limits, and exceedances are relevant to water quality.

6.0 DISCUSSION

The following routine analytical constituents exceeded the PQL in one or more wells monitoring the SDF and are discussed in further detail below (Table 3):

- Aluminum
- Bismuth-214 (Bi-214)
- Gross Alpha
- Lead-214 (Pb-214)
- Manganese
- Nitrate-Nitrite as Nitrogen*
- Nonvolatile Beta**
- Radium-226 (Ra-226)

- Radium-228 (Ra-228)
 - Tc-99
 - Tritium
- * 1Q22 results exceeded the GWPS for nitrate, which initiated complete GWPS sampling at all SDF monitoring wells in 3Q22.
- ** Results exceeded the 8 pCi/L and 30 pCi/L thresholds for nonvolatile beta (gross beta) requiring Sr-90 and all the other contingent analyses for some wells.

Well ZBG015D was sampled independently for four quarters in 2012 to establish initial background concentrations as required by the monitoring plan (WSRC 2005). Data from well ZBG015D are currently used for background comparisons to monitoring data collected at wells downgradient of SDUs 1 and 4. Data from well ZBG 1 are used for background comparisons to monitoring data collected at wells downgradient of SDUs 2, 3, 5, 6, 7, 8 and 9 (Figures 2 - 6).

Aluminum

Three wells (ZBG002D, ZBG 4 and ZBG 5) had samples with aluminum concentrations exceeding their PQLs in 1Q23 or 3Q23. The 1Q23 maximum aluminum concentration (538 microgram per liter [$\mu\text{g/L}$]) at well ZBG 5 is greater than the background historic maximum (68 $\mu\text{g/L}$) at ZBG 1, and it exceeds the GWPS (200 $\mu\text{g/L}$), which is a SDWS. The 3Q23 maximum aluminum concentration (615 $\mu\text{g/L}$), also at well ZBG 5, is greater than the background historic maximum (68 $\mu\text{g/L}$) at ZBG 1, and it exceeds the GWPS (200 $\mu\text{g/L}$). The 1Q23 aluminum concentration (458 $\mu\text{g/L}$) at well ZBG 4 also exceeds the background historic maximum (68 $\mu\text{g/L}$) and the GWPS (200 $\mu\text{g/L}$). The 3Q23 aluminum concentration (576 $\mu\text{g/L}$) at well ZBG002D also exceeds the background historic maximum (68 $\mu\text{g/L}$) and the GWPS (200 $\mu\text{g/L}$). The total aluminum inventory in SDU 4 is estimated at 1.09E+05 kilograms (kg) (Savannah River Remediation, LLC [SRR] 2020, Table 3.3-14) and may be the source of elevated aluminum concentrations in these samples. Data for wells ZBG002D, ZBG 4 and ZBG 5 have shown impacts from the previous release from SDU 4.

Bismuth-214 and Lead-214

The maximum Bi-214 concentration (76.1 pCi/L) sample was collected at well ZBG002D in 1Q23. The 1Q23 Bi-214 maximum groundwater concentration is less than the historic maximum (160 pCi/L) for background well ZBG015D and is below the 4 millirem (mrem) GWPS for Bi-214 (18,900 pCi/L) (USEPA 2000). The maximum Bi-214 concentration (173 pCi/L) sample

was collected at well ZBG 6 in 3Q23. The 3Q23 Bi-214 maximum groundwater concentration is greater than the historic maximum (160 pCi/L) for background well ZBG015D, but it is below the 4 mrem GWPS for Bi-214 (18,900 pCi/L) (USEPA 2000). The 1Q23 maximum Pb-214 groundwater concentration (88 pCi/L) sample was collected at well ZBG002C. The 1Q23 maximum Pb-214 groundwater concentration is less than the historic maximum (171 pCi/L) for background well ZBG015D and is below the 4 mrem GWPS for Pb-214 (11,800 pCi/L) (USEPA 2000). The 3Q23 maximum Pb-214 groundwater concentration (89.8 pCi/L) sample was collected at well ZBG 6. The 3Q23 maximum Pb-214 groundwater concentration is less than the historic maximum (171 pCi/L) for background well ZBG015D and it is below the 4 mrem GWPS for Pb-214 (11,800 pCi/L) (USEPA 2000).

Since monitoring for Bi-214 and Pb-214 began in March 2007, results have been detected above the PQL in 19 of the 22 wells, including the background wells. Pb-214 and Bi-214 are short-lived daughter products of radon-222 (Rn-222) in the naturally-occurring U-238 decay series and are supported by the relatively long-lived (half-life 1,599 years) Ra-226 intermediary radionuclide. The Rn-222 to Ra-226 ratio is typically 230 in South Carolina coastal plain groundwater (King 1982). Therefore, Bi-214 and Pb-214 appear to be of natural origin, and not related to SDF operations.

Gross Alpha

Four wells (ZBG 3, ZBG 6, ZBG 8, and ZBG019D) had samples with gross alpha concentrations exceeding their PQLs in 1Q23 or 3Q23. The 1Q23 maximum gross alpha concentration (1.51 pCi/L) at well ZBG019D is below the historic maximum (4.28 pCi/L) at ZBG 1, and it is below the GWPS (15 pCi/L). The 3Q23 maximum gross alpha concentration (4.23 pCi/L) at well ZBG 6 is below the historic maximum (4.28 pCi/L) at ZBG 1, and it is below the GWPS (15 pCi/L). The 3Q23 ZBG 6 gross alpha result (4.23 pCi/L) was an increase from the 1Q23 result (1.38 pCi/L), but slightly less than the 3Q22 result (4.28 pCi/L) at this location. The historic well data indicate the gross alpha concentrations are naturally-occurring in origin, and not related to SDF operations.

Radium-226 and Radium-228

Ra-226 results have been detected above the MDL in 22 of the 22 wells since January 2012, including the background wells. Ra-226 results exceeded the PQL in two wells (ZBG 6 and ZBG 8) in 1Q23 sampling. Ra-226 contributes to the gross alpha activity in groundwater. The maximum Ra-226 concentration (1.60 pCi/L) sample was from monitoring well ZBG 6 in 1Q23, which is more than the historic maximum for background well ZBG015D (1.10 pCi/L). The 1Q23 Ra-228 result (1.58 pCi/L) for ZBG 6 was the only result above the PQL, and results in a combined Ra-226 + Ra-228 concentration of 3.18 pCi/L, which is below the GWPS (5 pCi/L). Ra-226 is commonly detected in the groundwater (UGA 2005), and concentrations in Z-Area wells are considered naturally-occurring in origin and not related to SDF operations.

Manganese

Nine wells (ZBG 3, ZBG 4, ZBG 5, ZBG009D, ZBG010D, ZBG015D, ZBG016C, ZBG018D, and ZBG019D) had samples with manganese concentrations above their PQLs in 1Q23 and/or 3Q23, and the 1Q23 sample at well ZBG009D had a groundwater manganese concentration (105 µg/L) that exceeded the GWPS (SDWS of 50 µg/L) and the maximum concentration (27.7 µg/L) at background well ZBG015D, but ZBG015D has only had 2 sample events for manganese. Six older YSC series background wells in Z-Area had manganese concentrations ranging from below detection to 471 µg/L in the 1990s, but these wells have since been abandoned. The current manganese concentration at ZBG009D may fall within background limits as additional manganese analyses are performed on ZBG background well samples.

Nitrate

Nitrates in the groundwater are determined using Nitrate – Nitrite as Nitrogen USEPA methods 353.1 or 353.2. At SRS, nitrogen in the groundwater is primarily in the form of nitrate because the groundwater is typically well oxygenated, especially in the UAZ. The approximate nitrate groundwater plume for the SDF is presented in Figure 9 using 3Q23 data. The maximum nitrate concentration in background well ZBG015D was 1.3 mg/L in first quarter of 2015 (1Q15). In 1Q22, the ZBG002D sample nitrate groundwater concentration (15.4 mg/L) exceeded the GWPS (10 mg/L), the 1Q23 ZBG002D sample result of 10.9 mg/L also exceeded the GWPS, but the 3Q23 result (4.44 mg/L) is below the GWPS (Figure 10). The well with the next highest nitrate

concentration is ZBG002C with a 3Q23 result of 3.78 mg/L, which exceeds the background nitrate concentration (1.3 mg/L at ZBG015D) but not the GWPS. Elevated nitrate concentrations at well ZBG002C indicate nitrate contamination is present in the LAZ.

The ZBG002D nitrate sample result continues a decreasing trend since peaking in 1Q22 at 15.4 mg/L, nitrate at ZBG002D has decreased to 4.44 mg/L in 3Q23. Per the *Groundwater Monitoring Plan for the Z-Area Saltstone Disposal Facility* (WSRC 2005), nitrate is very mobile and abundant in saltstone and is a reliable early indicator of a vault release. The source of the nitrate is from an SDU 4 release first identified and reported in late 2014.

Historically, nitrate groundwater concentrations at well ZBG019D have remained elevated. Previously, the source of nitrate contamination was not considered related to saltstone material due to Tc-99 results below the MDL and nonvolatile beta results below the PQL. The nitrate concentration in ZBG019D has followed a decreasing trend since initial sampling in April 2017 (5.74 mg/L). The 1Q23 nitrate result at ZBG019D was 1.64 mg/L and the 3Q23 nitrate result was (1.56 mg/L), which are both below the maximum nitrate value at background well ZBG 1 (2.03 mg/L). In 3Q23, the nitrate result at ZBG017D increased to 1.64 mg/L and the 3Q23 nitrate result at ZBG009D increased to 1.74 mg/L, but both results are below the maximum nitrate value at background well ZBG 1 (2.03 mg/L). Wells ZBG009D and ZBG017D are near well ZBG019D, and these wells are downgradient of SDU 6, SDU 7 and SDU 8. The source of the nitrate is likely from upgradient sources and the dye used to leak test the SDUs, which contains nitrate.

In 1Q23, the nitrate groundwater concentrations at well ZBG 6 increased to 1.28 mg/L, which is greater than the PQL, but slightly less than the maximum nitrate background value (1.30 mg/L) at ZBG015D, and less than the GWPS (10 mg/L). In 3Q23, the nitrate groundwater concentrations at well ZBG 6 increased to 1.39 mg/L, which is greater than the PQL, and slightly greater than the maximum nitrate background value (1.30 mg/L) at ZBG015D, but less than the GWPS (10 mg/L).

Nonvolatile Beta

Samples from well ZBG002D, which replaced well ZBG 2, continue to have elevated groundwater concentrations for nitrate, nonvolatile beta, and Tc-99. The 1Q23 maximum nonvolatile beta groundwater concentration (101 pCi/L) was at well ZBG002D (Figure 10). The 3Q23 maximum nonvolatile beta groundwater concentration (64.5 pCi/L) was at well ZBG002C. The 3Q23

nonvolatile beta groundwater concentration at well ZBG002D was 38.0 pCi/L and ZBG002D continues to have decreasing groundwater concentrations since the maximum nonvolatile beta groundwater concentration (158 pCi/L) in 1Q15 at well ZBG 2 (ZBG 2 was replaced with ZBG002D in mid-2015) (Figure 10). Figure 11 depicts the approximate area of the Z-Area nonvolatile beta groundwater plume for 1Q23.

The 3Q23 nonvolatile beta results for ZBG002C, ZBG002D, ZBG 4, and ZBG020D exceeded the 8 pCi/L threshold for nonvolatile beta initiating Sr-90 analyses for these well samples. All the Sr-90 sample results were below their MDLs indicating that Sr-90 was not detected in these samples. In 3Q23, the ZBG002C and ZBG002D nonvolatile beta results (64.5 pCi/L and 38 pCi/L, respectively) exceeded the 30 pCi/L threshold for nonvolatile beta, so the Contingent Analyses Group 2 from Table 1 were required for these samples and the background well ZBG015D sample. Contingent Analyses Group 2 results are reported in Table 3.

In 3Q23, wells ZBG002C, ZBG002D, ZBG 4, ZBG 6, and ZBG020D had levels of nonvolatile beta groundwater concentrations (3.60 – 64.5 pCi/L) that exceed the maximum nonvolatile beta value (2.85 pCi/L) for background well ZBG015D. The nonvolatile beta data, in conjunction with the nitrate and Tc-99 data, for wells ZBG002C and ZBG 4 indicate contamination below the TCCZ.

In 3Q23, well ZBG002C had the highest sum of beta-emitting radionuclides greater than their PQLs (non-qualified results in Table 3), but the sum of beta-emitting activity level (0.46 mrem) for ZBG002C is below the GWPS (4 mrem). In 1Q23, the only radionuclide, including all the contingent analyses, above the PQL at well ZBG002C was Tc-99 (103 pCi/L) (Table 3). The Tc-99 plume is from historic spills/leaks from SDU 4.

Technetium-99

In 3Q23, the Tc-99 groundwater concentration (45.7 pCi/L) continued to decrease at well ZBG002D (Figure 10) since 3Q22 (191 pCi/L). In 3Q23, the maximum Tc-99 groundwater concentration (103 pCi/L) was at well ZBG002C, but Tc-99 remained below the GWPS (900 pCi/L) at all SDF monitoring wells in 3Q23. Previous results from well ZBG002D have been higher, with a maximum of 230 pCi/L in third quarter 2015 (3Q15) (Figure 10). Figure 11 depicts the approximate area of the Z-Area Tc-99 groundwater plume in 1Q23.

The samples from well ZBG 4 and ZBG020D also had Tc-99 results above the PQL of 11.0 pCi/L and 36.0 pCi/L, respectively, above detection in 3Q23, which is consistent with the nonvolatile beta results from the same well samples and historical data. Previous Tc-99 data from well ZBG002C and ZBG 4 indicate Tc-99 contamination has migrated through the TCCZ, but at concentrations below the GWPS (SRNS 2015).

As demonstrated by the 2017 through 2023 data at wells ZBG002C, ZBG002D and ZBG020D, it is not uncommon for the Tc-99 results to be higher than the nonvolatile beta results for the same samples, as some Tc-99 is volatilized by the drying step in the nonvolatile beta analytical method. In contrast, the Tc-99 analytical method does not include a drying step, thus avoiding any volatilization of Tc-99.

Tritium

The maximum tritium concentration was 2.23 picocuries per milliliter (pCi/mL) at background well ZBG015D in 3Q23. This concentration is below the historic maximum (4.02 pCi/mL) for background well ZBG015D and below the GWPS (20 pCi/mL). The older background well ZBG 1 has indicated steadily decreasing tritium concentration trends from 19.0 pCi/mL in 1987 to an estimated (J-qualified) 1.49 pCi/mL in 3Q23. All of the SDF monitoring wells appear to be following this trend. Data from the background wells ZBG 1 and ZBG015D indicate the tritium in Z-Area is from an up-gradient source (Figure 13).

Phenols

In 3Q23, phenols were detected only in the ZBG016C sample at estimated (J-qualified) levels (J0.014 mg/L), which was below the PQL, but above the ZBG 1 and ZBG015D background levels. The groundwater at well ZBG016C has not been impacted by the SDU 4 groundwater plume, and the phenol results from this well may be background levels.

Field Measurements

It has been observed that nonvolatile beta, Tc-99, nitrate, and specific conductance results correlate well with each other (Figure 10). From 3Q20 to 3Q22, a sharp increase in groundwater specific conductance (up to 164 microsiemens per centimeter [$\mu\text{S}/\text{cm}$]) was observed at well ZBG002D, followed by a decrease of specific conductance to 39 $\mu\text{S}/\text{cm}$ in 3Q23 at well ZBG002D

(Figure 10). As expected, nonvolatile beta, Tc-99, and nitrate first increased and then decreased along with specific conductance, which makes specific conductance a good first indicator of contamination for the groundwater at the SDF.

In 3Q23, wells ZBG012D, ZBG013D, and ZBG014D continue to have high specific conductance (143-206 $\mu\text{S}/\text{cm}$), alkalinity (59-85 mg/L), and pH (7.5-8.0) measurements. These elevated field measurements are consistent for these wells and appear to be related to the geologic formation as calcium carbonate material was identified in the lithology cores during well installation. Wells ZBG012D, ZBG013D, and ZBG014D monitor the groundwater near SDU 3 and SDU 5, which began receiving saltstone material in December 2013. The elevated field measurements are considered the baseline groundwater conditions for these wells.

7.0 CONCLUSIONS

1) Concentrations of nitrates, nonvolatile beta, and Tc-99 at well ZBG002D have decreased in 3Q23 compared to 3Q22, and concentrations remain below the 3Q15 historic maximums for nitrates, nonvolatile beta, and Tc-99 concentrations. The overall decrease can be attributed to the SDU 4 stabilization efforts.

In 3Q23, groundwater at well ZBG002D showed decreases in Tc-99 (45.7 pCi/L), nonvolatile beta activity (38.0 pCi/L), nitrate concentration (4.44 mg/L), and specific conductance (39 $\mu\text{S}/\text{cm}$) relative to the 3Q22 concentrations for Tc-99 (191 pCi/L), nonvolatile beta activity (96 pCi/L), nitrate concentration (15.4 mg/L), and specific conductance (164 $\mu\text{S}/\text{cm}$). The Tc-99, nonvolatile beta, and nitrate contaminants are from the previously reported 2014 release from SDU 4. The 3Q23 results for ZBG002D are lower than the maximum ZBG002D concentrations in 2015 for nonvolatile beta activity (132 pCi/L), Tc-99 activity (230 pCi/L), and specific conductance (211 $\mu\text{S}/\text{cm}$). In 3Q23, nitrate groundwater concentrations (4.44 mg/L) at well ZBG002D are now below the GWPS (10 mg/L).

2) Contaminants have moved downward into the LAZ, but concentrations of contaminants remain below their respective GWPS.

Well ZBG002C was installed adjacent to ZBG002D in 2014 with a screen zone below the TCCZ to monitor groundwater in the LAZ. In 3Q23, samples collected in the LAZ indicate contamination

has migrated through the TCCZ and into the LAZ, consistent with monitoring results from previous years. However, all contaminants in the LAZ are below their respective GWPSs. The SDF groundwater monitoring well network is adequately monitoring contaminants above and below the TCCZ.

3) There have been no impacts to groundwater from Sedimentation Basin #4.

In 2011 and 2012, surface water and sediment contamination (i.e., Pu-239, Pu-238, U-238, U-235, U-234, Th-232, Th-230, Th-228, Cs-137, I-129, Tc-99, tritium, nonvolatile beta, and gross alpha) was detected in Sedimentation Basin #4 (SRNS 2012) (Figure 2). In 2014, two groundwater monitoring wells (ZBG016C and ZBG016D) were installed downgradient of Sedimentation Basin #4 in the UAZ and LAZ (Figure 2). The data for the samples collected to date at well ZBG016C indicate there have been no impacts to the groundwater from Sedimentation Basin #4. The screen zone for well ZBG016D is positioned on top of the TCCZ to monitor for potentially contaminated perched water in the vadose zone. Well ZBG016D has been dry since installation, indicating there has not been any perched water at this location since installation.

4) Three new analytes (aluminum, manganese, and phenols) were added to the 2023 SDF monitoring plan following the 3Q22 sampling event.

In 3Q23, aluminum exceeded the GWPS (200 µg/L SDWS) at ZBG 5 (615 µg/L) and ZBG002D (576 µg/L) and appear to be related to the 2014 release from SDU 4. In 3Q23, manganese did not exceed the GWPS (50 µg/L SDWS) at any well. In 1Q23 and 3Q23, all phenol results were below PQLs. Manganese and phenols appear to be from natural origins in Z-Area.

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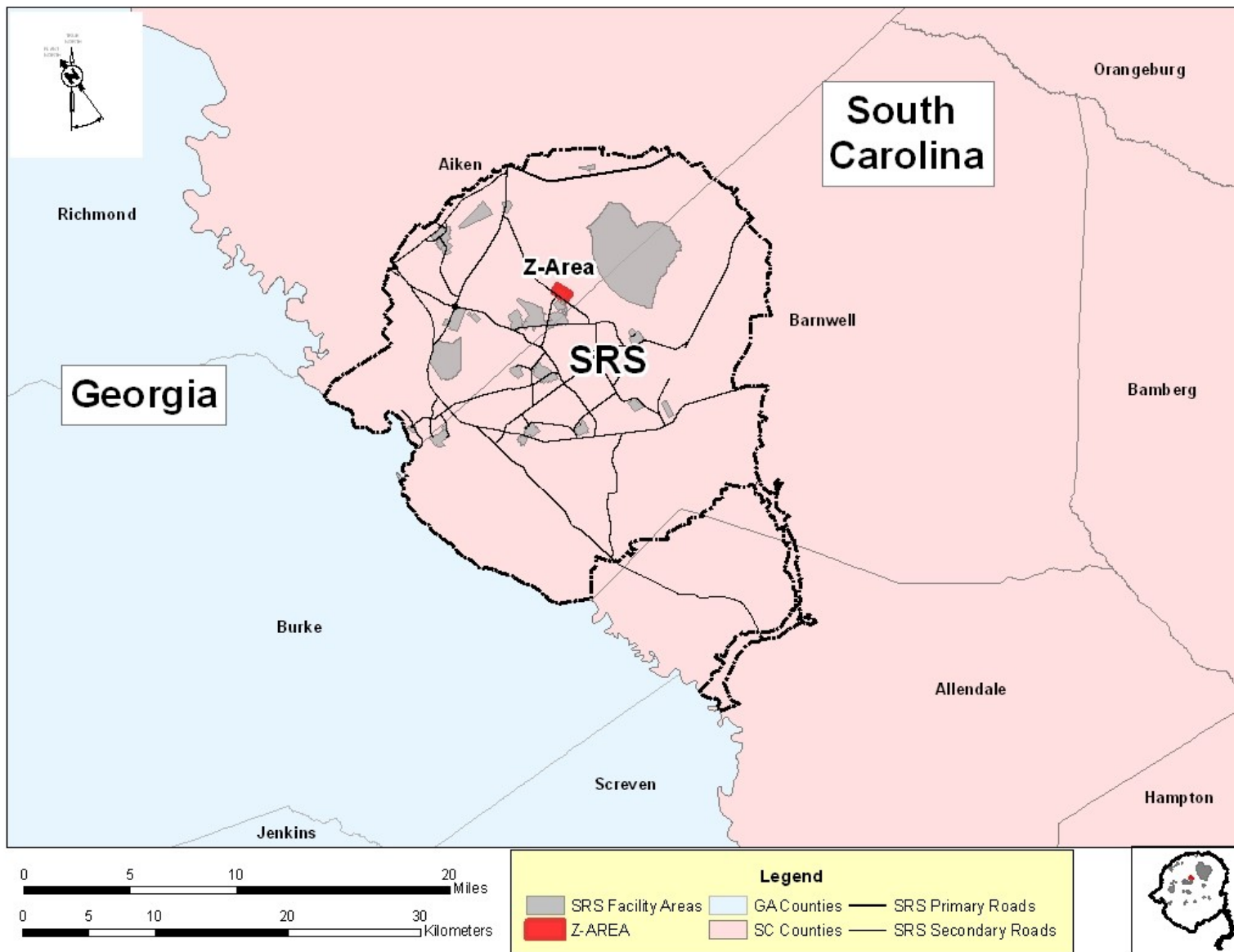


Figure 1. Z-Area Location Within the Savannah River Site

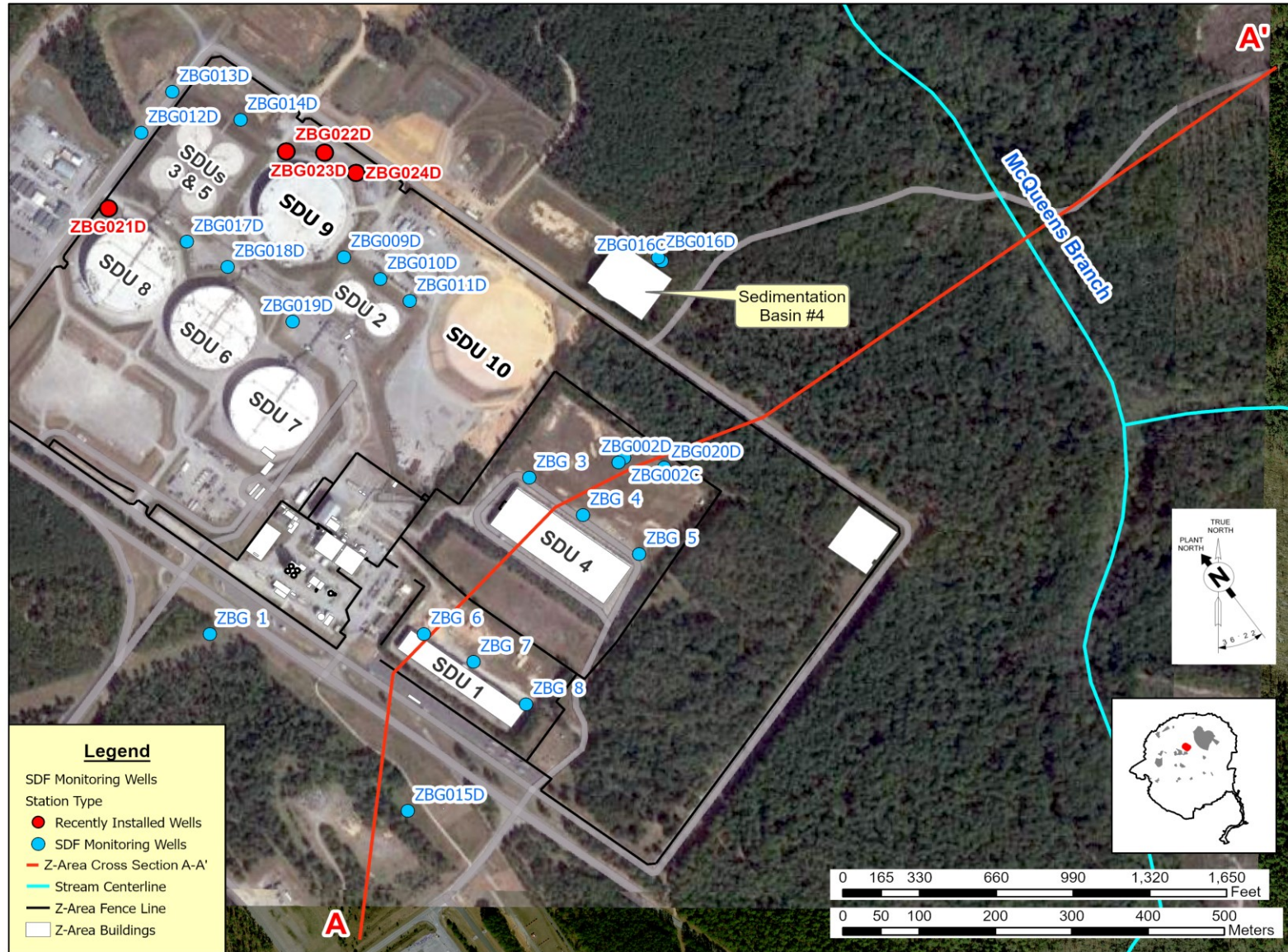


Figure 2. Monitoring Well Locations at the Saltstone Disposal Facility (SDF)



Figure 3. 1Q23 UAZ Water Table Elevations (ft-amsl)

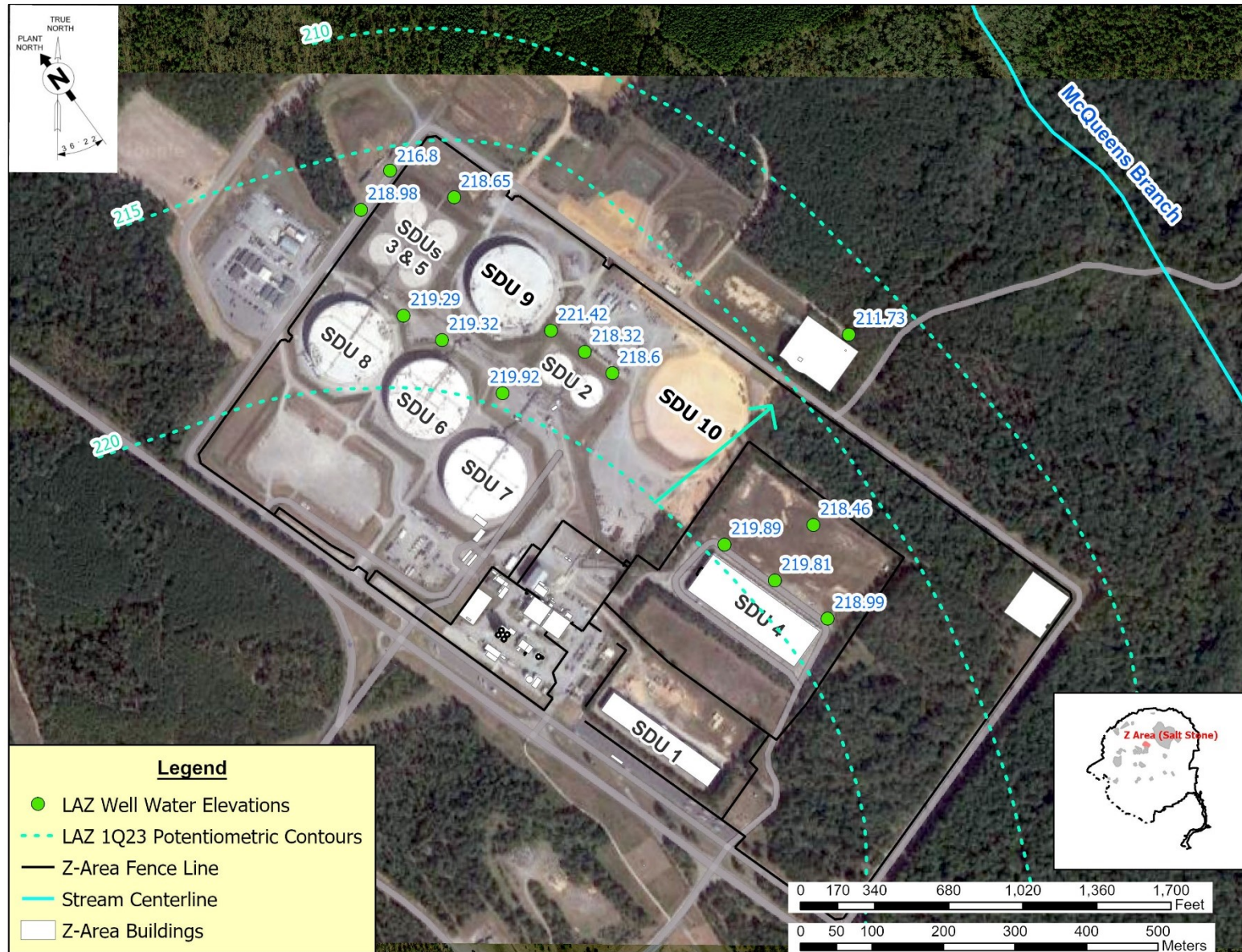


Figure 4. 1Q23 LAZ Water Level Elevations (ft-amsl)

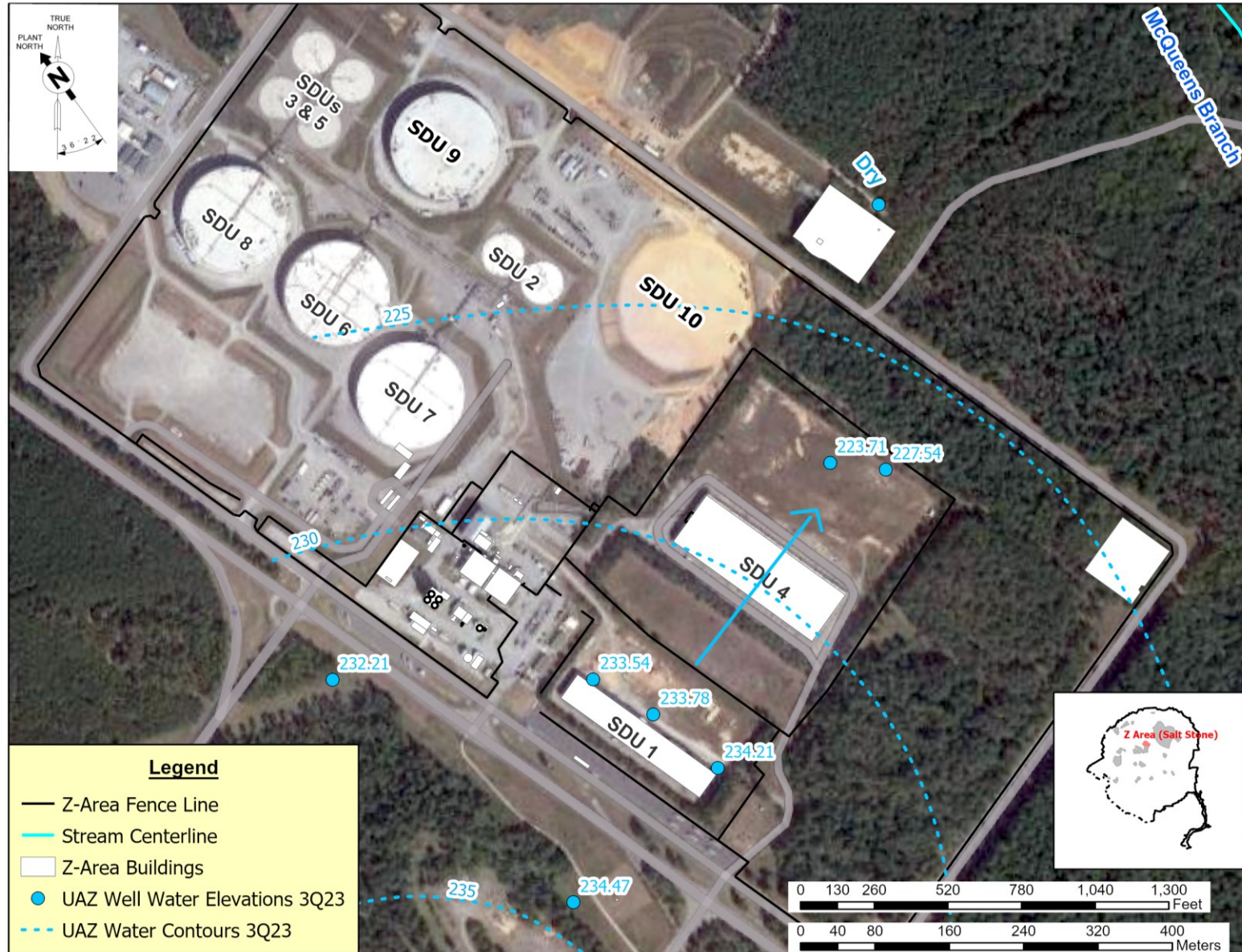


Figure 5. 3Q23 UAZ Water Table Elevations (ft-amsl)

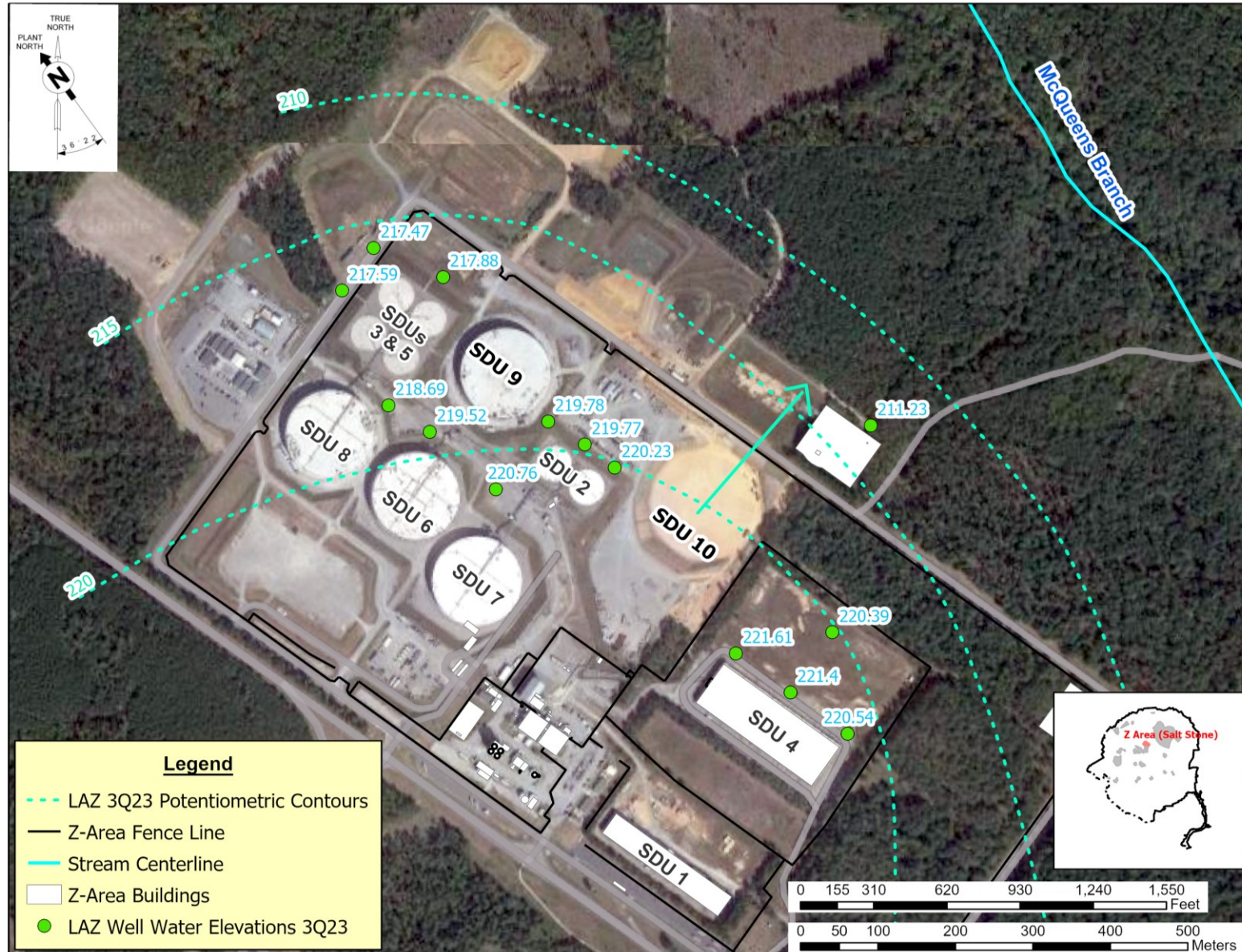


Figure 6. 3Q23 LAZ Water Level Elevations (ft-amsl)

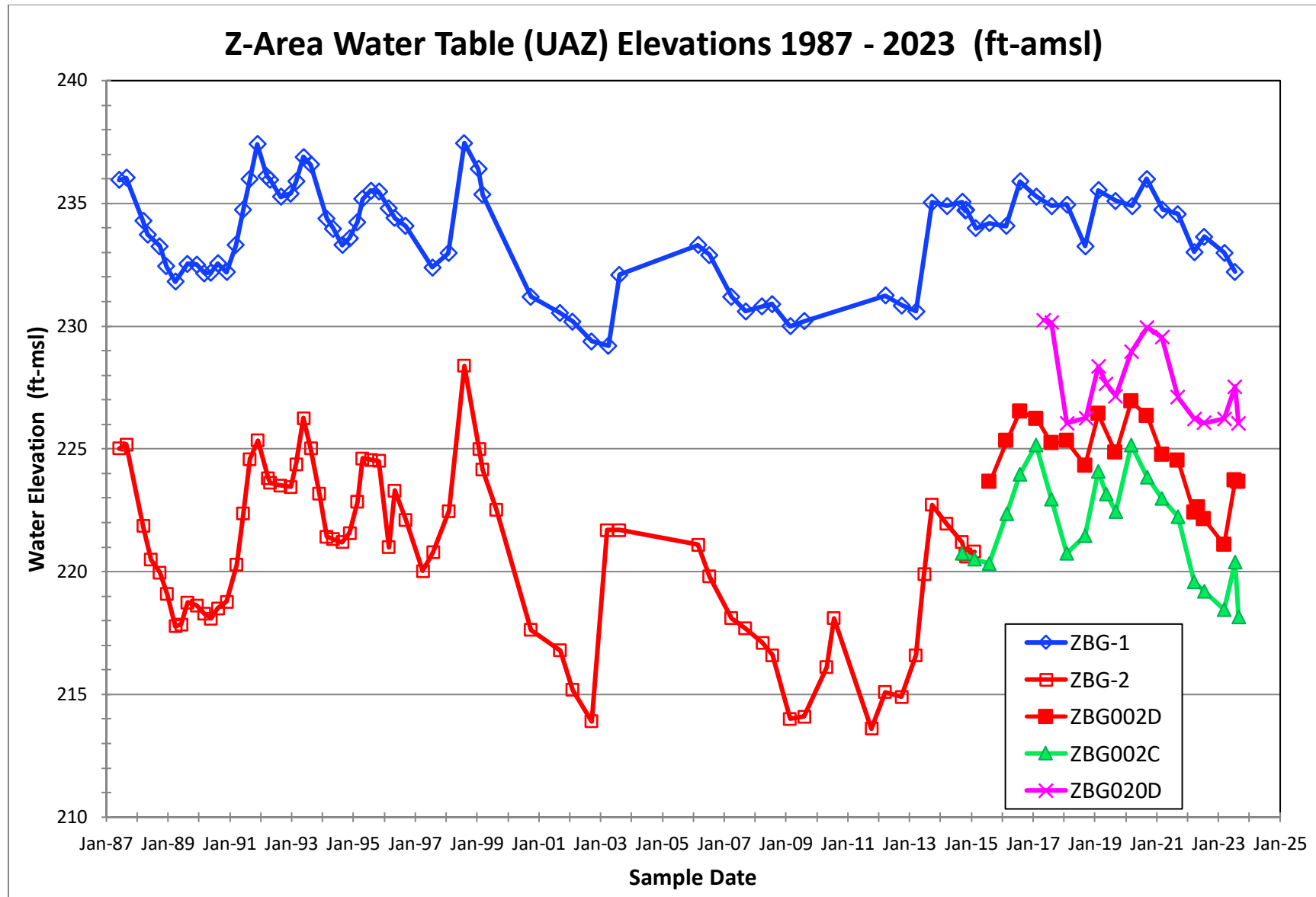


Figure 7. Z-Area Water Table Elevations (ft-amsl)

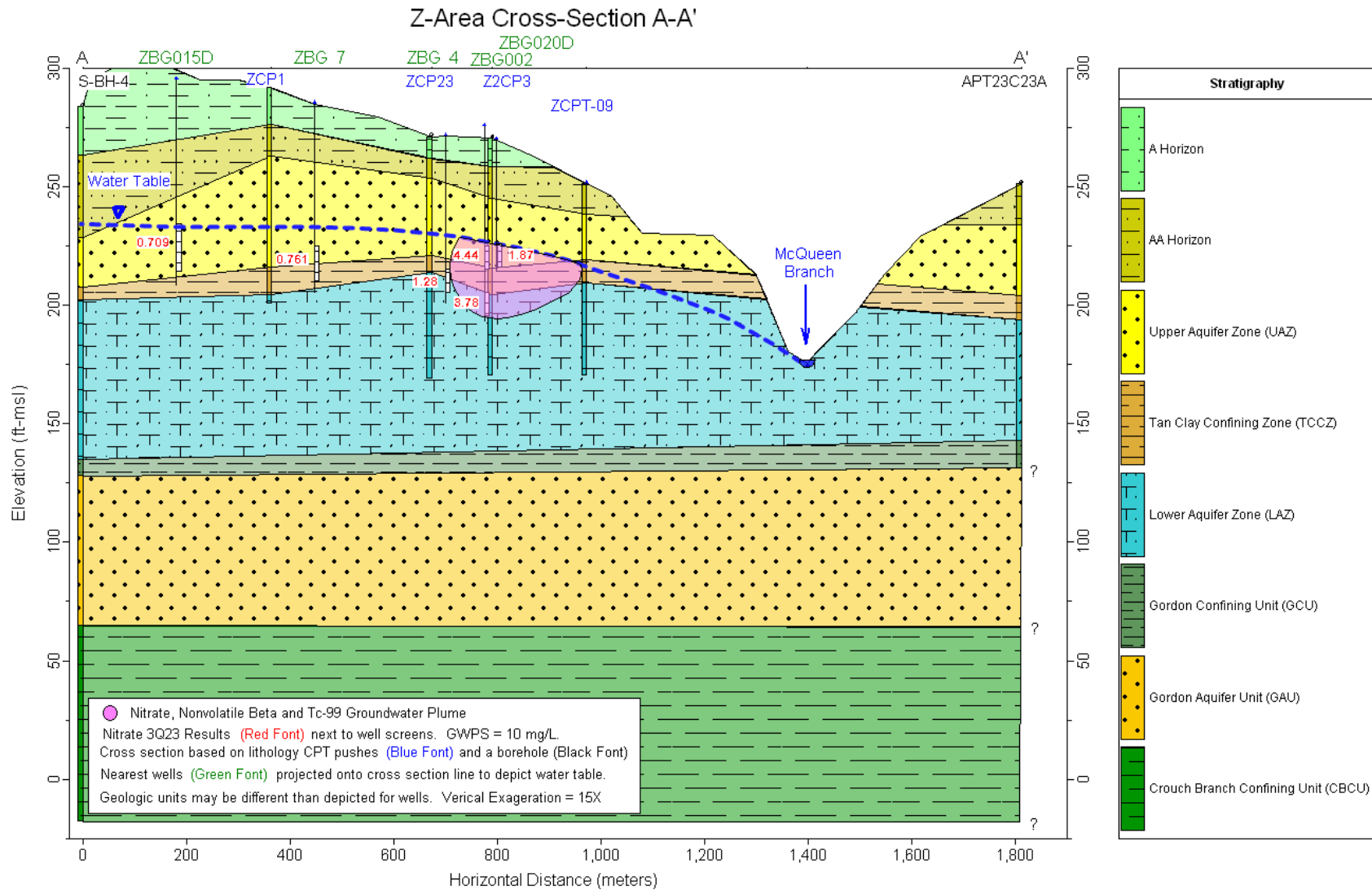


Figure 8. Z-Area Cross Section with 3Q23 Water Table

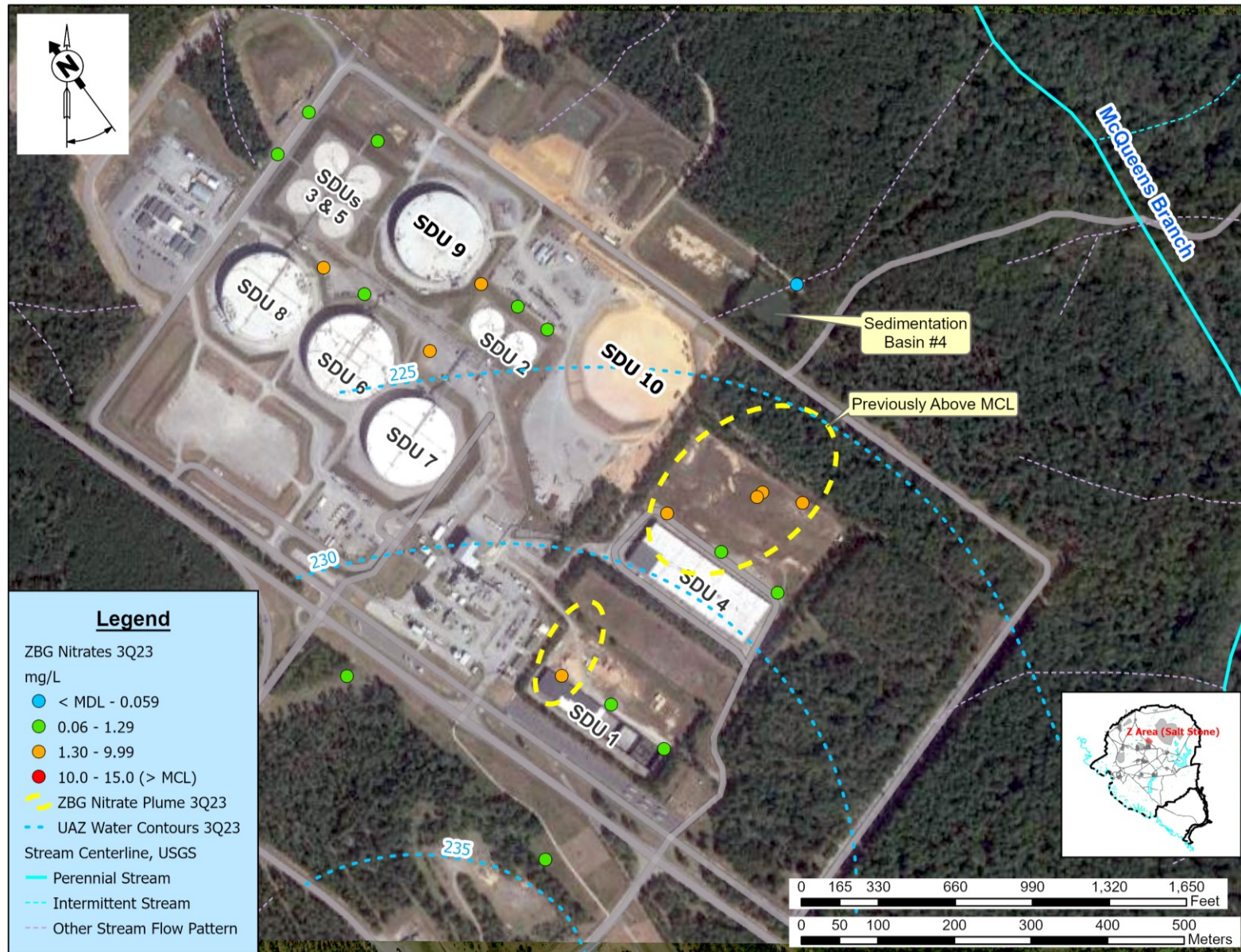


Figure 9. Approximate Nitrate Groundwater Plume (3Q23)

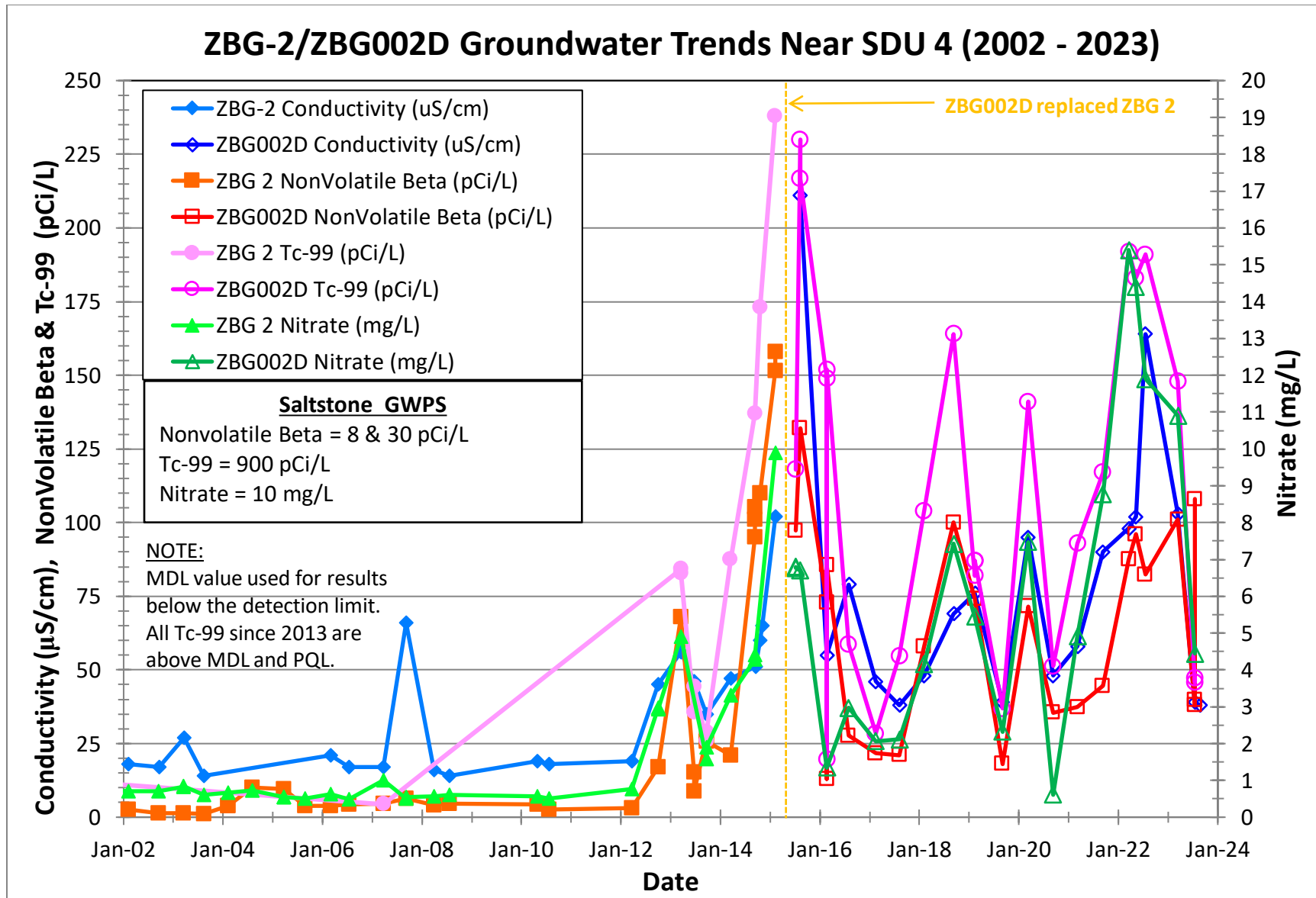


Figure 10. ZBG 2 / ZBG002D Conductivity, Nonvolatile Beta, Tc-99, and Nitrate Groundwater Trends

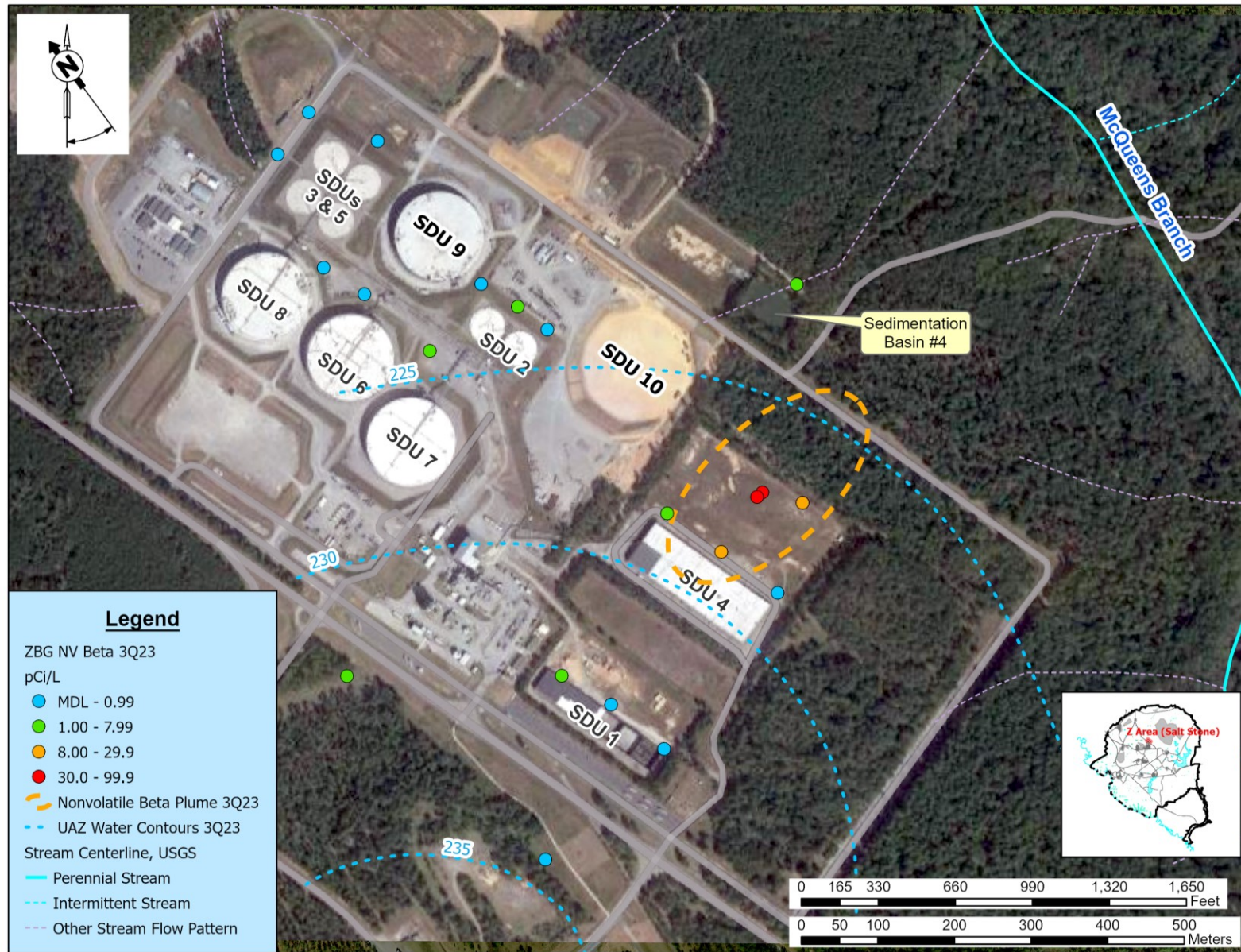


Figure 11. Approximate Nonvolatile Beta Groundwater Plume (3Q23)

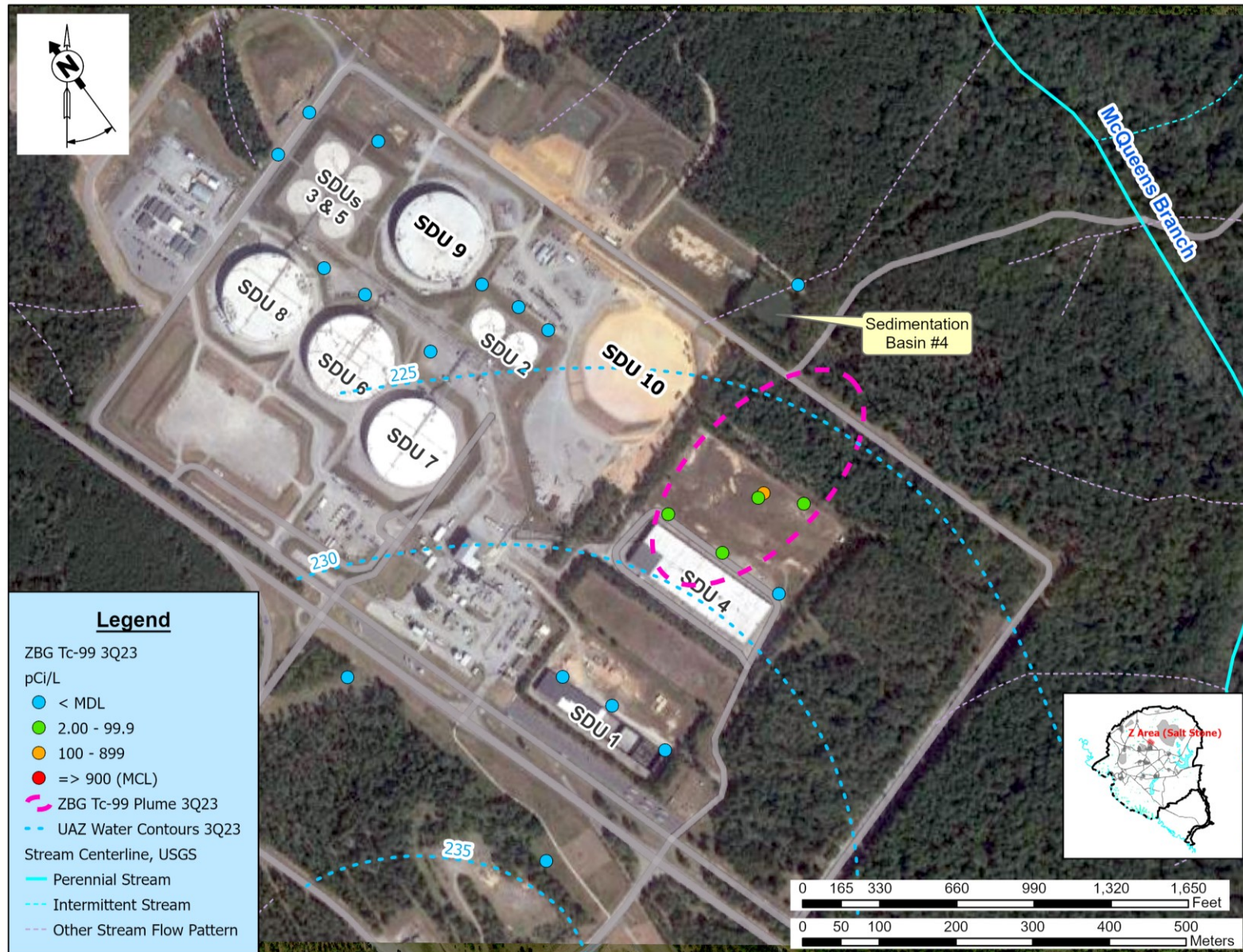


Figure 12. Approximate Tc-99 Groundwater Plume (3Q23)

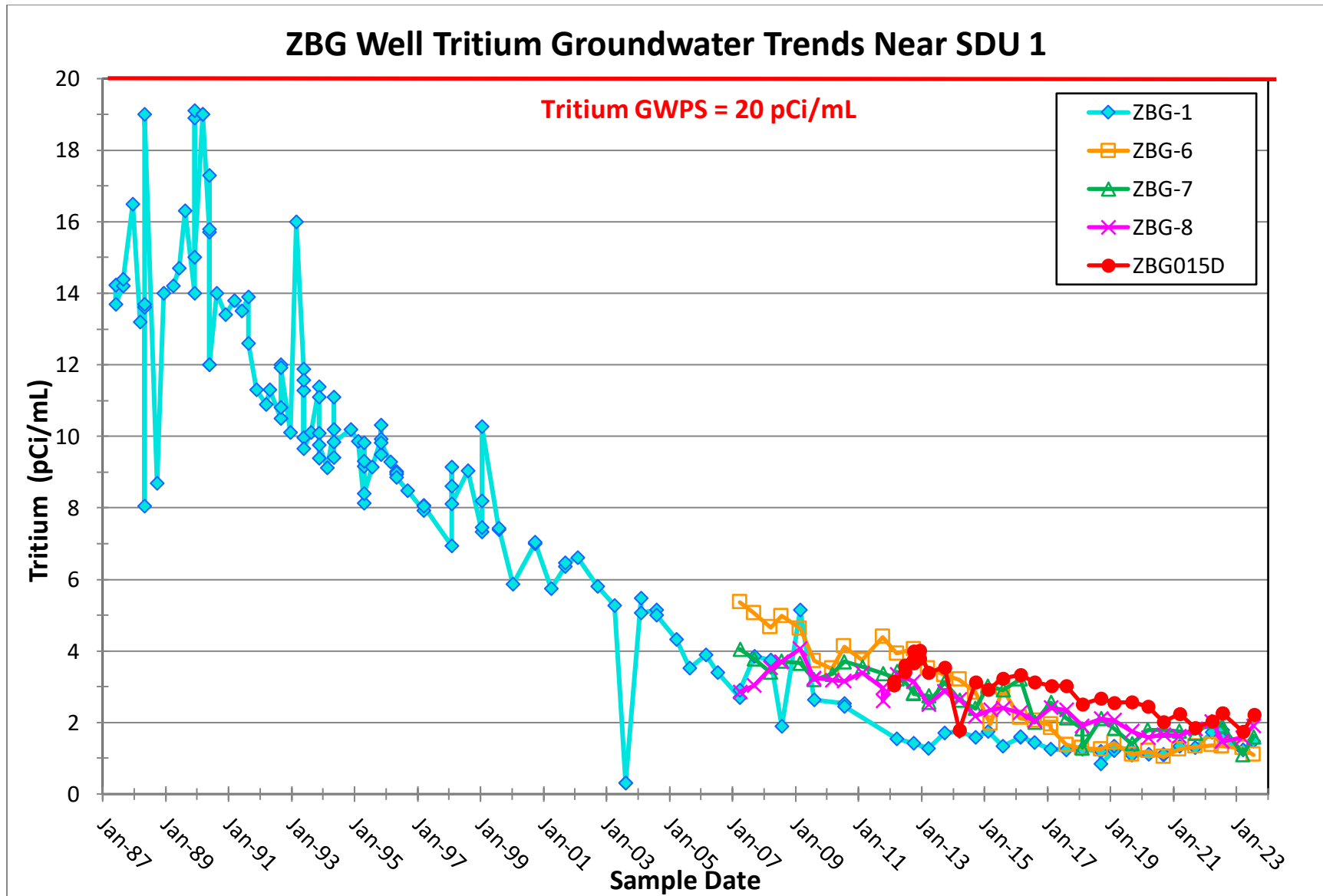


Figure 13. ZBG Well Tritium Groundwater Trends

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Table 1. List of Routine Analytes and Parameters for the SDF

Semiannual Constituents	Groundwater Protection Standard	Units
pH	NA	pH
Specific Conductance	NA	μS/cm
Groundwater Elevations	NA	ft-amsl
Aluminum	200	μg/L
Manganese	50	μg/L
Phenols	Above Background	
Nitrate (Nitrate/Nitrite)	10	mg/L
Gross Alpha	15	pCi/L
Gross Beta ^{1,2} (Nonvolatile Beta)	8 / 30	pCi/L
Gamma Spectroscopy-Emitters (Beta-Emitters)	4	mrem
Iodine-129 (I-129)	1	pCi/L
Technetium-99 (Tc-99)	900	pCi/L
Tritium	20	pCi/mL
Biennial Constituents	Groundwater Protection Standard	Units
Radium-226 (Ra-226)	5 (Ra-226 + Ra-228)	pCi/L
Radium-228 (Ra-228)	5 (Ra-226 + Ra-228)	pCi/L
Benzene	5	μg/L
Tetrachloroethylene	5	μg/L
Toluene	1000	μg/L
Trichloroethylene	5	μg/L
Contingent Analysis 1	Groundwater Protection Standard	Units
Strontium-90 (Sr-90)	8	pCi/L
Contingent Analyses 2	Groundwater Protection Standard	Units
Carbon-14 (C-14)	2000	pCi/L
Cobalt-60 (Co-60)	100	pCi/L
Cesium-137 (Cs-137)	200	pCi/L
Gross Beta (Re-analysis)	30	pCi/L
Niobium-94 (Nb-94)	707 ³	pCi/L
Nickel-59 (Ni-59)	300	pCi/L
Nickel-63 (Ni-63)	50	pCi/L
Plutonium-241 (Pu-241)	62.6 ³	pCi/L
Ruthenium-106 (Ru-106)	30	pCi/L
Antimony (Sb-125)	300	pCi/L
Technetium-99 (Tc-99)	900	pCi/L
¹ If Gross Beta is equal to or exceeds 8 pCi/L then Contingent Analysis 1 is analyzed for that sample.		
² If Gross Beta is equal to or exceeds 30 pCi/L then all Contingent Analyses 2 are analyzed for that well and the background well.		
³ Proposed Primary Drinking Water Standard. NA = Not Applicable.		

Table 2. Complete GWPS Analyte List (WSRC 2005)

Analyte	GWPS	Units	Driving Standard
Aluminum	200	µg/L	SDWS
Arsenic	50	µg/L	PDWS
Antimony	6	µg/L	PDWS
Barium	2000	µg/L	PDWS
Beryllium	4	µg/L	PDWS
1,1-Biphenyl	-	-	Background
Boron	-	-	Background
1-Butanol	-	-	Background
Cadmium	5	µg/L	PDWS
Chloride	250	mg/L	SDWS
Chromium	100	µg/L	PDWS
Cobalt	-	-	Background
Copper	1300	µg/L	PDWS
Fluoride	4000	µg/L	PDWS
Iron	300	µg/L	SDWS
Isobutanol	-	-	Background
Lead	15	µg/L	PDWS
Lithium	-	-	Background
Manganese	50	µg/L	SDWS
Mercury	2	µg/L	PDWS
Mercury (methyl)	-	-	Background
Molybdenum	-	-	Background
Nickel	100	µg/L	PDWS
Nitrate/Nitrite as Nitrogen	10000	µg/L	PDWS
Phenol	-	-	Background
Selenium	50	µg/L	PDWS
Silver	100	µg/L	SDWS
Strontium	-	-	Background
Sulfate	250	mg/L	SDWS
Tetrachloroethylene	5	µg/L	PDWS
Thallium	2	µg/L	PDWS
Trichloroethylene	5	µg/L	PDWS
Uranium	20	µg/L	Proposed PDWS
Zinc	500	µg/L	SDWS
Benzene	5	µg/L	PDWS
Toluene	1000	µg/L	PDWS
Total Radium	5	pCi/L	PDWS
Gross Alpha	15	pCi/L	PDWS
Nonvolatile Beta	4	mrem/yr	PDWS

GWPS - groundwater protection standard

µg/L - microgram per liter

mg/L - milligram per liter

pCi/L - picocuries per liter

mrem/yr - millirem per year

PDWS - primary drinking water standard

SDWS - secondary drinking water standard

Table 3. Laboratory Results for Saltstone Wells (2023)

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)								
WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG 1	3/15/23	ACTINIUM-228	57.80	160.20	U	-26.70	pCi/L	REG
ZBG 1	3/15/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG 1	3/15/23	ANTIMONY-125	27.80	62.20	U	9.41	pCi/L	REG
ZBG 1	3/15/23	BENZENE	0.31	1.00	U	0.31	ug/L	REG
ZBG 1	3/15/23	BISMUTH-212	249.00	545.00	U	-86.10	pCi/L	REG
ZBG 1	3/15/23	BISMUTH-214	54.70	79.50	U	-4.06	pCi/L	REG
ZBG 1	3/15/23	CESIUM-137	13.00	20.00	U	3.74	pCi/L	REG
ZBG 1	3/15/23	COBALT-60	14.30	22.08	U	0.35	pCi/L	REG
ZBG 1	3/15/23	GROSS ALPHA	0.73	3.00	U	0.53	pCi/L	REG
ZBG 1	3/15/23	IODINE-129	0.69	1.00	U	-0.01	pCi/L	REG
ZBG 1	3/15/23	LEAD-212	31.40	64.00	U	-10.10	pCi/L	REG
ZBG 1	3/15/23	LEAD-214	35.30	76.30	U	-4.51	pCi/L	REG
ZBG 1	3/15/23	MANGANESE	1.00	10.00	J	3.31	ug/L	REG
ZBG 1	3/15/23	NIوبيUM-94	24.80	54.20	U	-6.69	pCi/L	REG
ZBG 1	3/15/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		1.08	mg/L	REG
ZBG 1	3/15/23	NONVOLATILE BETA	0.79	4.00	J	1.71	pCi/L	REG
ZBG 1	3/15/23	PHENOLS	0.01	0.02	U	0.01	mg/L	REG
ZBG 1	3/15/23	POTASSIUM-40	52.70	192.90	J	172.00	pCi/L	REG
ZBG 1	3/15/23	RADIUM-226	0.24	1.00	J	0.42	pCi/L	REG
ZBG 1	3/15/23	RADIUM-228	0.46	1.00	J	0.55	pCi/L	REG
ZBG 1	3/15/23	RUTHENIUM-106	304.00	664.00	U	-60.00	pCi/L	REG
ZBG 1	3/15/23	TECHNETIUM-99	1.86	3.96	U	-0.24	pCi/L	REG
ZBG 1	3/15/23	TETRACHLOROETHYLENE (PCE)	0.40	1.00	U	0.40	ug/L	REG
ZBG 1	3/15/23	THALLIUM-208	11.70	34.10	U	10.50	pCi/L	REG
ZBG 1	3/15/23	TOLUENE	0.32	1.00	U	0.32	ug/L	REG
ZBG 1	3/15/23	TRICHLOROETHYLENE (TCE)	0.30	1.00	U	0.30	ug/L	REG
ZBG 1	3/15/23	TRITIUM	0.55	1.31	J	1.24	pCi/mL	REG
ZBG 1	3/15/23	XYLENES	0.33	1.00	U	0.33	ug/L	REG
ZBG 3	3/16/23	ACTINIUM-228	51.80	127.80	U	12.00	pCi/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG 3	3/16/23	ALUMINUM	40.00	400.00	J	345.00	ug/L	REG
ZBG 3	3/29/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG 3	3/16/23	ANTIMONY-125	37.80	112.20	U	20.50	pCi/L	REG
ZBG 3	3/16/23	BENZENE	0.31	1.00	U	0.31	ug/L	REG
ZBG 3	3/16/23	BISMUTH-212	267.00	579.00	U	87.10	pCi/L	REG
ZBG 3	3/16/23	BISMUTH-214	65.50	140.10	U	-1.88	pCi/L	REG
ZBG 3	3/16/23	CESIUM-137	30.40	20.00	U	-3.73	pCi/L	REG
ZBG 3	3/16/23	COBALT-60	10.50	26.68	J	11.40	pCi/L	REG
ZBG 3	3/16/23	GROSS ALPHA	1.14	3.00	J	1.18	pCi/L	REG
ZBG 3	3/16/23	IODINE-129	0.62	1.00	U	0.06	pCi/L	REG
ZBG 3	3/16/23	LEAD-212	15.60	40.20	J	16.50	pCi/L	REG
ZBG 3	3/16/23	LEAD-214	36.60	95.40	U	11.70	pCi/L	REG
ZBG 3	3/16/23	MANGANESE	1.00	10.00	J	9.73	ug/L	REG
ZBG 3	3/29/23	MANGANESE	1.00	10.00	J	5.01	ug/L	REG
ZBG 3	3/16/23	MERCURY	0.02	0.20	J	0.04	ug/L	REG
ZBG 3	3/29/23	MERCURY	0.02	0.20	U	0.20	ug/L	REG
ZBG 3	3/16/23	NIوبيUM-94	24.00	63.40	U	-7.89	pCi/L	REG
ZBG 3	3/29/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		1.68	mg/L	REG
ZBG 3	3/16/23	NONVOLATILE BETA	0.86	4.00	J	1.40	pCi/L	REG
ZBG 3	3/16/23	PHENOLS	0.01	0.02	U	0.01	mg/L	REG
ZBG 3	3/16/23	POTASSIUM-40	241.00	571.00	U	-18.50	pCi/L	REG
ZBG 3	3/16/23	RADIUM-226	0.30	1.00	U	0.25	pCi/L	REG
ZBG 3	3/16/23	RADIUM-228	0.45	1.00	U	0.24	pCi/L	REG
ZBG 3	3/16/23	RUTHENIUM-106	387.00	837.00	U	-51.40	pCi/L	REG
ZBG 3	3/16/23	TECHNETIUM-99	1.82	4.04	U	1.57	pCi/L	REG
ZBG 3	3/16/23	TETRACHLOROETHYLENE (PCE)	0.40	1.00	U	0.40	ug/L	REG
ZBG 3	3/16/23	THALLIUM-208	22.30	35.06	U	2.57	pCi/L	REG
ZBG 3	3/16/23	TOLUENE	0.32	1.00	U	0.32	ug/L	REG
ZBG 3	3/16/23	TRICHLOROETHYLENE (TCE)	0.30	1.00	U	0.30	ug/L	REG
ZBG 3	3/29/23	TRITIUM	0.46	1.14		1.25	pCi/mL	REG
ZBG 3	3/16/23	XYLENES	0.33	1.00	U	0.33	ug/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG 4	3/16/23	ACTINIUM-228	44.90	84.30	U	4.03	pCi/L	REG
ZBG 4	3/16/23	ALUMINUM	40.00	400.00		458.00	ug/L	REG
ZBG 4	3/16/23	ANTIMONY-125	33.10	72.70	U	10.60	pCi/L	REG
ZBG 4	3/16/23	BENZENE	0.31	1.00	U	0.31	ug/L	REG
ZBG 4	3/16/23	BISMUTH-212	213.00	457.00	U	-41.50	pCi/L	REG
ZBG 4	3/16/23	BISMUTH-214	26.60	73.60	J	34.30	pCi/L	REG
ZBG 4	3/16/23	CESIUM-137	20.30	20.00	U	0.00	pCi/L	REG
ZBG 4	3/16/23	COBALT-60	6.51	16.03	U	4.54	pCi/L	REG
ZBG 4	3/16/23	GROSS ALPHA	1.36	3.00	U	0.87	pCi/L	REG
ZBG 4	3/16/23	IODINE-129	0.65	1.00	U	0.12	pCi/L	REG
ZBG 4	3/16/23	LEAD-212	44.00	80.60	U	-18.80	pCi/L	REG
ZBG 4	3/16/23	LEAD-214	22.50	53.90	U	21.50	pCi/L	REG
ZBG 4	3/16/23	MANGANESE	1.00	10.00		12.60	ug/L	REG
ZBG 4	3/16/23	MERCURY	0.02	0.20	U	0.20	ug/L	REG
ZBG 4	3/16/23	NIOBIUM-94	14.60	53.60	U	-2.62	pCi/L	REG
ZBG 4	3/16/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		1.38	mg/L	REG
ZBG 4	3/16/23	NONVOLATILE BETA	0.97	4.00		6.32	pCi/L	REG
ZBG 4	3/16/23	PHENOLS	0.01	0.02	U	0.01	mg/L	REG
ZBG 4	3/16/23	POTASSIUM-40	163.00	387.00	U	-16.10	pCi/L	REG
ZBG 4	3/16/23	RADIUM-226	0.24	1.00	U	0.15	pCi/L	REG
ZBG 4	3/16/23	RADIUM-228	0.50	1.00	U	0.02	pCi/L	REG
ZBG 4	3/16/23	RUTHENIUM-106	309.00	615.00	U	94.60	pCi/L	REG
ZBG 4	3/16/23	STRONTIUM-90	0.33	3.00	U	-0.03	pCi/L	REG
ZBG 4	3/16/23	TECHNETIUM-99	1.89	4.71		7.69	pCi/L	REG
ZBG 4	3/16/23	TETRACHLOROETHYLENE (PCE)	0.40	1.00	U	0.40	ug/L	REG
ZBG 4	3/16/23	THALLIUM-208	15.90	41.30	U	-1.80	pCi/L	REG
ZBG 4	3/16/23	TOLUENE	0.32	1.00	U	0.32	ug/L	REG
ZBG 4	3/16/23	TRICHLOROETHYLENE (TCE)	0.30	1.00	U	0.30	ug/L	REG
ZBG 4	3/16/23	TRITIUM	0.52	1.26	J	1.25	pCi/mL	REG
ZBG 4	3/16/23	XYLENES	0.33	1.00	U	0.33	ug/L	REG
ZBG 5	3/20/23	ACTINIUM-228	91.10	198.30	U	-31.50	pCi/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG 5	3/20/23	ALUMINUM	40.00	400.00		538.00	ug/L	REG
ZBG 5	3/20/23	ANTIMONY-125	41.70	103.50	U	20.90	pCi/L	REG
ZBG 5	3/20/23	BENZENE	0.31	1.00	U	0.31	ug/L	REG
ZBG 5	3/20/23	BISMUTH-212	390.00	854.00	U	-138.00	pCi/L	REG
ZBG 5	3/20/23	BISMUTH-214	67.30	100.90	U	19.90	pCi/L	REG
ZBG 5	3/20/23	CESIUM-137	22.90	20.00	U	0.00	pCi/L	REG
ZBG 5	3/20/23	COBALT-60	25.70	26.11	U	-0.27	pCi/L	REG
ZBG 5	3/20/23	GROSS ALPHA	1.52	3.00	U	-0.42	pCi/L	REG
ZBG 5	3/20/23	IODINE-129	0.65	1.00	U	-0.15	pCi/L	REG
ZBG 5	3/20/23	LEAD-212	40.70	80.70	U	-5.00	pCi/L	REG
ZBG 5	3/20/23	LEAD-214	45.10	86.90	U	4.39	pCi/L	REG
ZBG 5	3/20/23	MANGANESE	1.00	10.00		24.30	ug/L	REG
ZBG 5	3/20/23	MERCURY	0.02	0.20	U	0.20	ug/L	REG
ZBG 5	3/20/23	NIObIUM-94	18.70	47.90	U	-1.97	pCi/L	REG
ZBG 5	3/20/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		0.45	mg/L	REG
ZBG 5	3/20/23	NONVOLATILE BETA	0.91	4.00	U	-0.02	pCi/L	REG
ZBG 5	3/20/23	PHENOLS	0.01	0.02	U	0.01	mg/L	REG
ZBG 5	3/20/23	POTASSIUM-40	179.00	527.00	U	-68.40	pCi/L	REG
ZBG 5	3/20/23	RADIUM-226	0.24	1.00	U	0.01	pCi/L	REG
ZBG 5	3/20/23	RADIUM-228	0.41	1.00	U	0.11	pCi/L	REG
ZBG 5	3/20/23	RUTHENIUM-106	287.00	571.00	U	77.00	pCi/L	REG
ZBG 5	3/20/23	TECHNETIUM-99	1.80	3.88	U	0.16	pCi/L	REG
ZBG 5	3/20/23	TETRACHLOROETHYLENE (PCE)	0.40	1.00	U	0.40	ug/L	REG
ZBG 5	3/20/23	THALLIUM-208	16.00	39.20	U	2.26	pCi/L	REG
ZBG 5	3/20/23	TOLUENE	0.32	1.00	U	0.32	ug/L	REG
ZBG 5	3/20/23	TRICHLOROETHYLENE (TCE)	0.30	1.00	U	0.30	ug/L	REG
ZBG 5	3/20/23	TRITIUM	0.52	1.18	U	0.39	pCi/mL	REG
ZBG 5	3/20/23	XYLENES	0.33	1.00	U	0.33	ug/L	REG
ZBG 6	3/15/23	ACTINIUM-228	52.80	99.40	J	53.40	pCi/L	REG
ZBG 6	3/15/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG 6	3/15/23	ANTIMONY-125	35.10	60.50	U	7.38	pCi/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG 6	3/15/23	BENZENE	0.31	1.00	U	0.31	ug/L	REG
ZBG 6	3/15/23	BISMUTH-212	213.00	461.00	U	59.90	pCi/L	REG
ZBG 6	3/15/23	BISMUTH-214	57.50	94.70	U	-4.38	pCi/L	REG
ZBG 6	3/15/23	CESIUM-137	16.40	20.00	U	-1.13	pCi/L	REG
ZBG 6	3/15/23	COBALT-60	12.60	32.10	U	0.72	pCi/L	REG
ZBG 6	3/15/23	GROSS ALPHA	1.38	3.00	J	1.38	pCi/L	REG
ZBG 6	3/15/23	IODINE-129	0.97	1.00	U	0.45	pCi/L	REG
ZBG 6	3/15/23	LEAD-212	31.80	69.00	U	-1.82	pCi/L	REG
ZBG 6	3/15/23	LEAD-214	34.80	74.00	U	-7.98	pCi/L	REG
ZBG 6	3/15/23	MANGANESE	1.00	10.00	J	3.05	ug/L	REG
ZBG 6	3/15/23	NIOBIUM-94	9.85	21.01	U	4.34	pCi/L	REG
ZBG 6	3/15/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		1.28	mg/L	REG
ZBG 6	3/15/23	NONVOLATILE BETA	0.91	4.00		5.14	pCi/L	REG
ZBG 6	3/15/23	PHENOLS	0.01	0.02	U	0.01	mg/L	REG
ZBG 6	3/15/23	POTASSIUM-40	189.00	465.00	U	-65.00	pCi/L	REG
ZBG 6	3/15/23	RADIUM-226	0.32	1.00		1.16	pCi/L	REG
ZBG 6	3/15/23	RADIUM-228	0.52	1.00		1.58	pCi/L	REG
ZBG 6	3/15/23	RUTHENIUM-106	276.00	602.00	U	-0.40	pCi/L	REG
ZBG 6	3/15/23	TECHNETIUM-99	1.89	4.73	J	3.63	pCi/L	REG
ZBG 6	3/15/23	TETRACHLOROETHYLENE (PCE)	0.40	1.00	U	0.40	ug/L	REG
ZBG 6	3/15/23	THALLIUM-208	14.60	40.40	U	7.70	pCi/L	REG
ZBG 6	3/15/23	TOLUENE	0.32	1.00	U	0.32	ug/L	REG
ZBG 6	3/15/23	TRICHLOROETHYLENE (TCE)	0.30	1.00	U	0.30	ug/L	REG
ZBG 6	3/15/23	TRITIUM	0.55	1.32	J	1.28	pCi/mL	REG
ZBG 6	3/15/23	XYLENES	0.33	1.00	U	0.33	ug/L	REG
ZBG 7	3/16/23	ACTINIUM-228	57.80	82.20	U	7.60	pCi/L	REG
ZBG 7	3/16/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG 7	3/16/23	ANTIMONY-125	33.40	78.20	U	7.49	pCi/L	REG
ZBG 7	3/16/23	BENZENE	0.31	1.00	U	0.31	ug/L	REG
ZBG 7	3/16/23	BISMUTH-212	231.00	497.00	U	43.00	pCi/L	REG
ZBG 7	3/16/23	BISMUTH-214	49.60	66.32	U	14.50	pCi/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG 7	3/16/23	CESIUM-137	17.70	20.00	U	-6.48	pCi/L	REG
ZBG 7	3/16/23	COBALT-60	10.70	24.34	U	0.61	pCi/L	REG
ZBG 7	3/16/23	GROSS ALPHA	1.13	3.00	U	0.96	pCi/L	REG
ZBG 7	3/16/23	IODINE-129	0.55	1.00	U	0.04	pCi/L	REG
ZBG 7	3/16/23	LEAD-212	25.60	54.80	U	-4.76	pCi/L	REG
ZBG 7	3/16/23	LEAD-214	34.00	73.20	U	-5.50	pCi/L	REG
ZBG 7	3/16/23	MANGANESE	1.00	10.00	J	1.39	ug/L	REG
ZBG 7	3/16/23	NIObIUM-94	18.90	22.84	U	1.40	pCi/L	REG
ZBG 7	3/16/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		0.79	mg/L	REG
ZBG 7	3/16/23	NONVOLATILE BETA	0.98	4.00	U	-0.51	pCi/L	REG
ZBG 7	3/16/23	PHENOLS	0.01	0.02	U	0.01	mg/L	REG
ZBG 7	3/16/23	POTASSIUM-40	135.00	389.00	U	64.40	pCi/L	REG
ZBG 7	3/16/23	RADIUM-226	0.31	1.00	J	0.69	pCi/L	REG
ZBG 7	3/16/23	RADIUM-228	0.50	1.00	U	0.39	pCi/L	REG
ZBG 7	3/16/23	RUTHENIUM-106	257.00	409.80	U	51.30	pCi/L	REG
ZBG 7	3/16/23	TECHNETIUM-99	1.83	3.91	U	-0.07	pCi/L	REG
ZBG 7	3/16/23	TETRACHLOROETHYLENE (PCE)	0.40	1.00	U	0.40	ug/L	REG
ZBG 7	3/16/23	THALLIUM-208	11.70	30.84	U	5.11	pCi/L	REG
ZBG 7	3/16/23	TOLUENE	0.32	1.00	U	0.32	ug/L	REG
ZBG 7	3/16/23	TRICHLOROETHYLENE (TCE)	0.30	1.00	U	0.30	ug/L	REG
ZBG 7	3/16/23	TRITIUM	0.54	1.28	J	1.11	pCi/mL	REG
ZBG 7	3/16/23	XYLENES	0.33	1.00	U	0.33	ug/L	REG
ZBG 8	3/16/23	ACTINIUM-228	69.90	73.80	U	0.66	pCi/L	REG
ZBG 8	3/16/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG 8	3/16/23	ANTIMONY-125	25.50	62.30	U	3.98	pCi/L	REG
ZBG 8	3/16/23	BENZENE	0.31	1.00	U	0.31	ug/L	REG
ZBG 8	3/16/23	BISMUTH-212	255.00	549.00	U	-55.40	pCi/L	REG
ZBG 8	3/16/23	BISMUTH-214	64.40	89.80	U	13.40	pCi/L	REG
ZBG 8	3/16/23	CESIUM-137	12.50	20.00	U	-1.24	pCi/L	REG
ZBG 8	3/16/23	COBALT-60	29.40	85.60	U	-16.30	pCi/L	REG
ZBG 8	3/16/23	GROSS ALPHA	1.07	3.00	J	1.45	pCi/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG 8	3/16/23	IODINE-129	0.54	1.00	U	0.36	pCi/L	REG
ZBG 8	3/16/23	LEAD-212	30.20	65.40	U	-0.81	pCi/L	REG
ZBG 8	3/16/23	LEAD-214	39.80	77.20	U	-18.90	pCi/L	REG
ZBG 8	3/16/23	MANGANESE	1.00	10.00	J	6.93	ug/L	REG
ZBG 8	3/16/23	NIOBIUM-94	17.30	45.90	U	-6.92	pCi/L	REG
ZBG 8	3/16/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		0.88	mg/L	REG
ZBG 8	3/16/23	NONVOLATILE BETA	0.85	4.00	J	1.01	pCi/L	REG
ZBG 8	3/16/23	PHENOLS	0.01	0.02	U	0.01	mg/L	REG
ZBG 8	3/16/23	POTASSIUM-40	183.00	431.00	U	-32.50	pCi/L	REG
ZBG 8	3/16/23	RADIUM-226	0.39	1.00		1.09	pCi/L	REG
ZBG 8	3/16/23	RADIUM-228	0.48	1.00	J	0.51	pCi/L	REG
ZBG 8	3/16/23	RUTHENIUM-106	211.00	457.00	U	35.30	pCi/L	REG
ZBG 8	3/16/23	TECHNETIUM-99	1.93	4.13	U	-0.11	pCi/L	REG
ZBG 8	3/16/23	TETRACHLOROETHYLENE (PCE)	0.40	1.00	U	0.40	ug/L	REG
ZBG 8	3/16/23	THALLIUM-208	14.80	25.62	U	2.71	pCi/L	REG
ZBG 8	3/16/23	TOLUENE	0.32	1.00	U	0.32	ug/L	REG
ZBG 8	3/16/23	TRICHLOROETHYLENE (TCE)	0.30	1.00	U	0.30	ug/L	REG
ZBG 8	3/16/23	TRITIUM	0.54	1.33		1.58	pCi/mL	REG
ZBG 8	3/16/23	XYLENES	0.33	1.00	U	0.33	ug/L	REG
ZBG002C	3/16/23	ACTINIUM-228	57.80	158.20	U	-15.50	pCi/L	REG
ZBG002C	3/16/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG002C	3/16/23	ANTIMONY-125	42.30	61.54	U	5.77	pCi/L	REG
ZBG002C	3/16/23	BENZENE	0.31	1.00	U	0.31	ug/L	REG
ZBG002C	3/16/23	BISMUTH-212	224.00	490.00	U	77.00	pCi/L	REG
ZBG002C	3/16/23	BISMUTH-214	59.10	103.70	U	16.80	pCi/L	REG
ZBG002C	3/16/23	CARBON-14	17.60	20.00	U	-3.62	pCi/L	REG
ZBG002C	3/16/23	CESIUM-137	19.90	20.00	U	-7.48	pCi/L	REG
ZBG002C	3/16/23	COBALT-60	10.70	26.88	U	2.81	pCi/L	REG
ZBG002C	3/16/23	GROSS ALPHA	1.55	3.00	U	0.23	pCi/L	REG
ZBG002C	3/16/23	IODINE-129	0.67	1.00	U	-0.02	pCi/L	REG
ZBG002C	3/16/23	LEAD-212	33.10	71.70	U	-3.30	pCi/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG002C	3/16/23	LEAD-214	22.50	63.50		88.00	pCi/L	REG
ZBG002C	3/16/23	MANGANESE	1.00	10.00	J	7.38	ug/L	REG
ZBG002C	3/16/23	MERCURY	0.02	0.20	U	0.20	ug/L	REG
ZBG002C	3/16/23	NICKEL-59	2.11	5.00	U	0.00	pCi/L	REG
ZBG002C	3/16/23	NICKEL-63	2.67	5.00	U	0.77	pCi/L	REG
ZBG002C	3/16/23	NIOBIUM-94	20.70	34.46	U	5.92	pCi/L	REG
ZBG002C	3/16/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		2.84	mg/L	REG
ZBG002C	3/16/23	NONVOLATILE BETA	1.09	4.00		52.70	pCi/L	REG
ZBG002C	3/16/23	PHENOLS	0.01	0.02	U	0.01	mg/L	REG
ZBG002C	3/16/23	PLUTONIUM-238	0.14	1.00	U	0.05	pCi/L	REG
ZBG002C	3/16/23	PLUTONIUM-239/240	0.06	1.00	U	0.02	pCi/L	REG
ZBG002C	3/16/23	PLUTONIUM-241	3.22	5.00	U	0.68	pCi/L	REG
ZBG002C	3/16/23	POTASSIUM-40	135.00	391.00	U	71.50	pCi/L	REG
ZBG002C	3/16/23	RADIUM-226	0.36	1.00	U	0.09	pCi/L	REG
ZBG002C	3/16/23	RADIUM-228	0.48	1.00	J	0.89	pCi/L	REG
ZBG002C	3/16/23	RUTHENIUM-106	324.00	706.00	U	106.00	pCi/L	REG
ZBG002C	3/16/23	STRONTIUM-90	0.29	3.00	U	0.16	pCi/L	REG
ZBG002C	3/16/23	TECHNETIUM-99	1.83	8.07		84.20	pCi/L	REG
ZBG002C	3/16/23	TETRACHLOROETHYLENE (PCE)	0.40	1.00	U	0.40	ug/L	REG
ZBG002C	3/16/23	THALLIUM-208	16.80	44.20	U	-2.12	pCi/L	REG
ZBG002C	3/16/23	TOLUENE	0.32	1.00	U	0.32	ug/L	REG
ZBG002C	3/16/23	TRICHLOROETHYLENE (TCE)	0.30	1.00	U	0.30	ug/L	REG
ZBG002C	3/16/23	TRITIUM	0.52	1.24	J	1.07	pCi/mL	REG
ZBG002C	3/16/23	XYLENES	0.33	1.00	U	0.33	ug/L	REG
ZBG002D	3/16/23	ACTINIUM-228	63.40	79.48	U	-4.17	pCi/L	REG
ZBG002D	3/16/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG002D	3/16/23	ANTIMONY-125	40.10	54.24	U	4.61	pCi/L	REG
ZBG002D	3/16/23	BENZENE	0.31	1.00	U	0.31	ug/L	REG
ZBG002D	3/16/23	BISMUTH-212	321.00	683.00	U	-8.74	pCi/L	REG
ZBG002D	3/16/23	BISMUTH-214	20.10	64.90		76.10	pCi/L	REG
ZBG002D	3/16/23	CARBON-14	17.40	20.00	U	7.65	pCi/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG002D	3/16/23	CESIUM-137	17.00	20.00	U	0.71	pCi/L	REG
ZBG002D	3/16/23	COBALT-60	7.25	16.05	U	4.92	pCi/L	REG
ZBG002D	3/16/23	GROSS ALPHA	1.37	3.00	U	0.77	pCi/L	REG
ZBG002D	3/16/23	IODINE-129	0.99	1.00	U	0.46	pCi/L	REG
ZBG002D	3/16/23	LEAD-212	33.50	55.50	U	-12.00	pCi/L	REG
ZBG002D	3/16/23	LEAD-214	21.00	56.60	J	38.60	pCi/L	REG
ZBG002D	3/16/23	MANGANESE	1.00	10.00	J	6.92	ug/L	REG
ZBG002D	3/16/23	MERCURY	0.02	0.20	J	0.20	ug/L	REG
ZBG002D	3/16/23	NICKEL-59	2.11	5.00	U	0.00	pCi/L	REG
ZBG002D	3/16/23	NICKEL-63	2.67	5.00	U	0.25	pCi/L	REG
ZBG002D	3/16/23	NIOBIUM-94	13.50	34.70	U	2.24	pCi/L	REG
ZBG002D	3/16/23	NITRATE-NITRITE AS NITROGEN	0.09	0.25		10.90	mg/L	REG
ZBG002D	3/16/23	NONVOLATILE BETA	0.95	4.00		101.00	pCi/L	REG
ZBG002D	3/16/23	PHENOLS	0.01	0.02	U	0.01	mg/L	REG
ZBG002D	3/16/23	PLUTONIUM-238	0.25	1.00	U	0.02	pCi/L	REG
ZBG002D	3/16/23	PLUTONIUM-239/240	0.13	1.00	U	0.05	pCi/L	REG
ZBG002D	3/16/23	PLUTONIUM-241	6.15	5.00	U	2.81	pCi/L	REG
ZBG002D	3/16/23	POTASSIUM-40	183.00	429.00	U	-41.70	pCi/L	REG
ZBG002D	3/16/23	RADIUM-226	0.32	1.00	U	0.23	pCi/L	REG
ZBG002D	3/16/23	RADIUM-228	0.47	1.00	U	0.37	pCi/L	REG
ZBG002D	3/16/23	RUTHENIUM-106	331.00	719.00	U	38.60	pCi/L	REG
ZBG002D	3/16/23	STRONTIUM-90	0.34	3.00	U	0.06	pCi/L	REG
ZBG002D	3/16/23	TECHNETIUM-99	1.86	10.00		148.00	pCi/L	REG
ZBG002D	3/16/23	TETRACHLOROETHYLENE (PCE)	0.40	1.00	U	0.40	ug/L	REG
ZBG002D	3/16/23	THALLIUM-208	20.60	46.60	U	-5.50	pCi/L	REG
ZBG002D	3/16/23	TOLUENE	0.32	1.00	U	0.32	ug/L	REG
ZBG002D	3/16/23	TRICHLOROETHYLENE (TCE)	0.30	1.00	U	0.30	ug/L	REG
ZBG002D	3/16/23	TRITIUM	0.52	1.26		1.26	pCi/mL	REG
ZBG002D	3/16/23	XYLENES	0.33	1.00	U	0.33	ug/L	REG
ZBG009D	3/15/23	ACTINIUM-228	46.10	122.90	U	14.60	pCi/L	REG
ZBG009D	3/15/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG009D	3/15/23	ANTIMONY-125	35.10	40.74	U	1.38	pCi/L	REG
ZBG009D	3/15/23	BENZENE	0.31	1.00	U	0.31	ug/L	REG
ZBG009D	3/15/23	BISMUTH-212	257.00	563.00	U	-94.30	pCi/L	REG
ZBG009D	3/15/23	BISMUTH-214	49.60	52.08	U	-0.71	pCi/L	REG
ZBG009D	3/15/23	CESIUM-137	16.70	20.00	U	-0.34	pCi/L	REG
ZBG009D	3/15/23	COBALT-60	10.70	18.68	U	4.89	pCi/L	REG
ZBG009D	3/15/23	GROSS ALPHA	0.87	3.00	U	0.67	pCi/L	REG
ZBG009D	3/15/23	IODINE-129	0.62	1.00	U	0.10	pCi/L	REG
ZBG009D	3/15/23	LEAD-212	14.80	34.54	U	5.61	pCi/L	REG
ZBG009D	3/15/23	LEAD-214	29.90	64.10	U	-6.62	pCi/L	REG
ZBG009D	3/15/23	MANGANESE	1.00	10.00		105.00	ug/L	REG
ZBG009D	3/15/23	NIوبيUM-94	18.80	31.44	U	5.14	pCi/L	REG
ZBG009D	3/15/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		1.64	mg/L	REG
ZBG009D	3/15/23	NONVOLATILE BETA	0.88	4.00	U	0.76	pCi/L	REG
ZBG009D	3/15/23	PHENOLS	0.01	0.02	U	0.01	mg/L	REG
ZBG009D	3/15/23	POTASSIUM-40	135.00	377.00	U	7.15	pCi/L	REG
ZBG009D	3/15/23	RADIUM-226	0.27	1.00	U	0.14	pCi/L	REG
ZBG009D	3/15/23	RADIUM-228	0.52	1.00	U	0.23	pCi/L	REG
ZBG009D	3/15/23	RUTHENIUM-106	255.00	549.00	U	0.00	pCi/L	REG
ZBG009D	3/15/23	TECHNETIUM-99	1.87	3.95	U	-0.57	pCi/L	REG
ZBG009D	3/15/23	TETRACHLOROETHYLENE (PCE)	0.40	1.00	U	0.40	ug/L	REG
ZBG009D	3/15/23	THALLIUM-208	12.90	36.90	U	5.63	pCi/L	REG
ZBG009D	3/15/23	TOLUENE	0.32	1.00	U	0.32	ug/L	REG
ZBG009D	3/15/23	TRICHLOROETHYLENE (TCE)	0.30	1.00	U	0.30	ug/L	REG
ZBG009D	3/15/23	TRITIUM	0.53	1.24	J	0.92	pCi/mL	REG
ZBG009D	3/15/23	XYLENES	0.33	1.00	U	0.33	ug/L	REG
ZBG010D	3/15/23	ACTINIUM-228	91.10	212.10	U	-35.40	pCi/L	REG
ZBG010D	3/15/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG010D	3/15/23	ANTIMONY-125	41.70	104.10	U	-1.77	pCi/L	REG
ZBG010D	3/15/23	BENZENE	0.31	1.00	U	0.31	ug/L	REG
ZBG010D	3/15/23	BISMUTH-212	204.00	438.00	U	61.60	pCi/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG010D	3/15/23	BISMUTH-214	114.00	174.60	U	-34.90	pCi/L	REG
ZBG010D	3/15/23	CESIUM-137	20.20	20.00	U	-3.35	pCi/L	REG
ZBG010D	3/15/23	COBALT-60	19.30	45.10	U	4.55	pCi/L	REG
ZBG010D	3/15/23	GROSS ALPHA	1.34	3.00	U	1.16	pCi/L	REG
ZBG010D	3/15/23	IODINE-129	0.52	1.00	U	0.30	pCi/L	REG
ZBG010D	3/15/23	LEAD-212	46.60	87.00	U	-11.60	pCi/L	REG
ZBG010D	3/15/23	LEAD-214	33.50	72.50	U	7.45	pCi/L	REG
ZBG010D	3/15/23	MANGANESE	1.00	10.00		13.20	ug/L	REG
ZBG010D	3/15/23	NIOBIUM-94	22.40	58.40	U	-4.23	pCi/L	REG
ZBG010D	3/15/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		0.50	mg/L	REG
ZBG010D	3/15/23	NONVOLATILE BETA	0.98	4.00	U	0.34	pCi/L	REG
ZBG010D	3/15/23	PHENOLS	0.01	0.02	U	0.01	mg/L	REG
ZBG010D	3/15/23	POTASSIUM-40	179.00	371.40	U	26.80	pCi/L	REG
ZBG010D	3/15/23	RADIUM-226	0.24	1.00	J	0.44	pCi/L	REG
ZBG010D	3/15/23	RADIUM-228	0.46	1.00	J	0.49	pCi/L	REG
ZBG010D	3/15/23	RUTHENIUM-106	274.00	590.00	U	-51.10	pCi/L	REG
ZBG010D	3/15/23	TECHNETIUM-99	1.83	3.89	U	-0.44	pCi/L	REG
ZBG010D	3/15/23	TETRACHLOROETHYLENE (PCE)	0.40	1.00	U	0.40	ug/L	REG
ZBG010D	3/15/23	THALLIUM-208	22.30	25.92	U	1.06	pCi/L	REG
ZBG010D	3/15/23	TOLUENE	0.32	1.00	U	0.32	ug/L	REG
ZBG010D	3/15/23	TRICHLOROETHYLENE (TCE)	0.30	1.00	U	0.30	ug/L	REG
ZBG010D	3/15/23	TRITIUM	0.52	1.21	J	0.73	pCi/mL	REG
ZBG010D	3/15/23	XYLENES	0.33	1.00	U	0.33	ug/L	REG
ZBG011D	3/15/23	ACTINIUM-228	63.40	88.40	U	4.36	pCi/L	REG
ZBG011D	3/15/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG011D	3/15/23	ANTIMONY-125	33.70	53.20	U	15.10	pCi/L	REG
ZBG011D	3/15/23	BENZENE	0.31	1.00	U	0.31	ug/L	REG
ZBG011D	3/15/23	BISMUTH-212	244.00	524.00	U	-53.70	pCi/L	REG
ZBG011D	3/15/23	BISMUTH-214	47.40	64.54	U	1.66	pCi/L	REG
ZBG011D	3/15/23	CESIUM-137	20.40	20.00	U	-6.76	pCi/L	REG
ZBG011D	3/15/23	COBALT-60	13.60	28.66	U	1.40	pCi/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG011D	3/15/23	GROSS ALPHA	0.93	3.00	U	0.42	pCi/L	REG
ZBG011D	3/15/23	IODINE-129	0.58	1.00	U	0.19	pCi/L	REG
ZBG011D	3/15/23	LEAD-212	27.60	59.80	U	-1.46	pCi/L	REG
ZBG011D	3/15/23	LEAD-214	32.20	69.40	U	0.40	pCi/L	REG
ZBG011D	3/15/23	MANGANESE	1.00	10.00	J	3.76	ug/L	REG
ZBG011D	3/15/23	NIOBIUM-94	10.00	25.54	U	2.65	pCi/L	REG
ZBG011D	3/15/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		0.23	mg/L	REG
ZBG011D	3/15/23	NONVOLATILE BETA	0.89	4.00		9.24	pCi/L	REG
ZBG011D	3/15/23	PHENOLS	0.01	0.02	U	0.01	mg/L	REG
ZBG011D	3/15/23	POTASSIUM-40	183.00	431.00	U	-32.50	pCi/L	REG
ZBG011D	3/15/23	RADIUM-226	0.34	1.00	U	0.08	pCi/L	REG
ZBG011D	3/15/23	RADIUM-228	0.51	1.00	U	0.11	pCi/L	REG
ZBG011D	3/15/23	RUTHENIUM-106	283.00	611.00	U	-15.80	pCi/L	REG
ZBG011D	3/15/23	TECHNETIUM-99	1.96	4.22	U	0.23	pCi/L	REG
ZBG011D	3/15/23	TETRACHLOROETHYLENE (PCE)	0.40	1.00	U	0.40	ug/L	REG
ZBG011D	3/15/23	THALLIUM-208	18.60	42.40	U	-8.22	pCi/L	REG
ZBG011D	3/15/23	TOLUENE	0.32	1.00	U	0.32	ug/L	REG
ZBG011D	3/15/23	TRICHLOROETHYLENE (TCE)	0.30	1.00	U	0.30	ug/L	REG
ZBG011D	3/15/23	TRITIUM	0.53	1.16	U	0.20	pCi/mL	REG
ZBG011D	3/15/23	XYLENES	0.33	1.00	U	0.33	ug/L	REG
ZBG012D	3/15/23	ACTINIUM-228	109.00	228.60	U	-53.40	pCi/L	REG
ZBG012D	3/15/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG012D	3/15/23	ANTIMONY-125	51.40	81.20	U	25.80	pCi/L	REG
ZBG012D	3/15/23	BENZENE	0.31	1.00	U	0.31	ug/L	REG
ZBG012D	3/15/23	BISMUTH-212	508.00	1098.00	U	-78.60	pCi/L	REG
ZBG012D	3/15/23	BISMUTH-214	57.30	86.50	U	18.70	pCi/L	REG
ZBG012D	3/15/23	CESIUM-137	28.30	20.00	U	-9.47	pCi/L	REG
ZBG012D	3/15/23	COBALT-60	10.50	17.30	U	4.50	pCi/L	REG
ZBG012D	3/15/23	GROSS ALPHA	1.50	3.00	U	0.33	pCi/L	REG
ZBG012D	3/15/23	IODINE-129	0.70	1.00	U	0.42	pCi/L	REG
ZBG012D	3/15/23	LEAD-212	42.20	78.40	U	-5.00	pCi/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG012D	3/15/23	LEAD-214	48.90	102.50	U	-19.70	pCi/L	REG
ZBG012D	3/15/23	MANGANESE	1.00	10.00	J	3.97	ug/L	REG
ZBG012D	3/15/23	NIObIUM-94	10.50	26.70	U	4.15	pCi/L	REG
ZBG012D	3/15/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		0.43	mg/L	REG
ZBG012D	3/15/23	NONVOLATILE BETA	0.79	4.00	J	1.07	pCi/L	REG
ZBG012D	3/15/23	PHENOLS	0.01	0.02	U	0.01	mg/L	REG
ZBG012D	3/15/23	POTASSIUM-40	179.00	371.40	U	26.80	pCi/L	REG
ZBG012D	3/15/23	RADIUM-226	0.22	1.00	U	-0.01	pCi/L	REG
ZBG012D	3/15/23	RADIUM-228	0.57	1.00	U	0.00	pCi/L	REG
ZBG012D	3/15/23	RUTHENIUM-106	340.00	728.00	U	0.80	pCi/L	REG
ZBG012D	3/15/23	TECHNETIUM-99	1.89	4.01	U	-0.56	pCi/L	REG
ZBG012D	3/15/23	TETRACHLOROETHYLENE (PCE)	0.40	1.00	U	0.40	ug/L	REG
ZBG012D	3/15/23	THALLIUM-208	16.00	39.20	U	2.26	pCi/L	REG
ZBG012D	3/15/23	TOLUENE	0.32	1.00	U	0.32	ug/L	REG
ZBG012D	3/15/23	TRICHLOROETHYLENE (TCE)	0.30	1.00	U	0.30	ug/L	REG
ZBG012D	3/15/23	TRITIUM	0.52	1.20	J	0.78	pCi/mL	REG
ZBG012D	3/15/23	XYLENES	0.33	1.00	U	0.33	ug/L	REG
ZBG013D	3/15/23	ACTINIUM-228	65.60	156.00	U	8.77	pCi/L	REG
ZBG013D	3/15/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG013D	3/15/23	ANTIMONY-125	37.00	55.60	U	9.30	pCi/L	REG
ZBG013D	3/15/23	BENZENE	0.31	1.00	U	0.31	ug/L	REG
ZBG013D	3/15/23	BISMUTH-212	304.00	660.00	U	-67.90	pCi/L	REG
ZBG013D	3/15/23	BISMUTH-214	60.70	130.90	U	-7.83	pCi/L	REG
ZBG013D	3/15/23	CESIUM-137	16.60	20.00	U	0.38	pCi/L	REG
ZBG013D	3/15/23	COBALT-60	12.60	16.76	U	3.12	pCi/L	REG
ZBG013D	3/15/23	GROSS ALPHA	1.33	3.00	U	0.11	pCi/L	REG
ZBG013D	3/15/23	IODINE-129	0.73	1.00	U	-0.03	pCi/L	REG
ZBG013D	3/15/23	LEAD-212	38.80	73.00	U	-12.40	pCi/L	REG
ZBG013D	3/15/23	LEAD-214	36.50	78.10	U	-5.39	pCi/L	REG
ZBG013D	3/15/23	MANGANESE	1.00	10.00	U	10.00	ug/L	REG
ZBG013D	3/15/23	NIObIUM-94	14.60	26.94	U	-1.47	pCi/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG013D	3/15/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		0.33	mg/L	REG
ZBG013D	3/15/23	NONVOLATILE BETA	1.07	4.00	U	0.42	pCi/L	REG
ZBG013D	3/15/23	PHENOLS	0.01	0.02	U	0.01	mg/L	REG
ZBG013D	3/15/23	POTASSIUM-40	163.00	387.00	U	-19.70	pCi/L	REG
ZBG013D	3/15/23	RADIUM-226	0.26	1.00	U	-0.02	pCi/L	REG
ZBG013D	3/15/23	RADIUM-228	0.46	1.00	U	0.26	pCi/L	REG
ZBG013D	3/15/23	RUTHENIUM-106	133.00	289.20	U	37.80	pCi/L	REG
ZBG013D	3/15/23	TECHNETIUM-99	1.85	4.05	U	0.69	pCi/L	REG
ZBG013D	3/15/23	TETRACHLOROETHYLENE (PCE)	0.40	1.00	U	0.40	ug/L	REG
ZBG013D	3/15/23	THALLIUM-208	13.30	35.10	U	5.76	pCi/L	REG
ZBG013D	3/15/23	TOLUENE	0.32	1.00	U	0.32	ug/L	REG
ZBG013D	3/15/23	TRICHLOROETHYLENE (TCE)	0.30	1.00	U	0.30	ug/L	REG
ZBG013D	3/15/23	TRITIUM	0.52	1.15	U	0.16	pCi/mL	REG
ZBG013D	3/15/23	XYLENES	0.33	1.00	U	0.33	ug/L	REG
ZBG014D	3/20/23	ACTINIUM-228	29.20	90.20	J	51.10	pCi/L	REG
ZBG014D	3/20/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG014D	3/20/23	ANTIMONY-125	39.60	48.18	U	-3.32	pCi/L	REG
ZBG014D	3/20/23	BENZENE	0.31	1.00	U	0.31	ug/L	REG
ZBG014D	3/20/23	BISMUTH-212	235.00	507.00	U	-47.70	pCi/L	REG
ZBG014D	3/20/23	BISMUTH-214	56.20	58.68	U	-1.64	pCi/L	REG
ZBG014D	3/20/23	CESIUM-137	12.70	20.00	U	3.74	pCi/L	REG
ZBG014D	3/20/23	COBALT-60	10.70	17.00	U	5.90	pCi/L	REG
ZBG014D	3/20/23	GROSS ALPHA	1.21	3.00	U	-0.18	pCi/L	REG
ZBG014D	3/20/23	IODINE-129	0.67	1.00	U	-0.06	pCi/L	REG
ZBG014D	3/20/23	LEAD-212	24.10	53.30	U	7.96	pCi/L	REG
ZBG014D	3/20/23	LEAD-214	32.60	69.60	U	-9.96	pCi/L	REG
ZBG014D	3/20/23	MANGANESE	1.00	10.00	U	10.00	ug/L	REG
ZBG014D	3/20/23	NIObIUM-94	21.30	45.90	U	-2.79	pCi/L	REG
ZBG014D	3/20/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		0.57	mg/L	REG
ZBG014D	3/20/23	NONVOLATILE BETA	0.80	4.00	U	0.61	pCi/L	REG
ZBG014D	3/20/23	PHENOLS	0.01	0.02	U	0.01	mg/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG014D	3/20/23	POTASSIUM-40	101.00	287.20	U	52.50	pCi/L	REG
ZBG014D	3/20/23	RADIUM-226	0.33	1.00	U	0.01	pCi/L	REG
ZBG014D	3/20/23	RADIUM-228	0.60	1.00	U	0.26	pCi/L	REG
ZBG014D	3/20/23	RUTHENIUM-106	242.00	548.00	U	101.00	pCi/L	REG
ZBG014D	3/20/23	TECHNETIUM-99	1.64	3.59	U	0.55	pCi/L	REG
ZBG014D	3/20/23	TETRACHLOROETHYLENE (PCE)	0.40	1.00	U	0.40	ug/L	REG
ZBG014D	3/20/23	THALLIUM-208	8.69	23.95	J	10.70	pCi/L	REG
ZBG014D	3/20/23	TOLUENE	0.32	1.00	U	0.32	ug/L	REG
ZBG014D	3/20/23	TRICHLOROETHYLENE (TCE)	0.30	1.00	U	0.30	ug/L	REG
ZBG014D	3/20/23	TRITIUM	0.47	1.09	J	0.63	pCi/mL	REG
ZBG014D	3/20/23	XYLENES	0.33	1.00	U	0.33	ug/L	REG
ZBG015D	3/16/23	ACTINIUM-228	52.30	125.50	U	15.20	pCi/L	REG
ZBG015D	3/16/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG015D	3/16/23	ANTIMONY-125	35.10	59.70	U	6.75	pCi/L	REG
ZBG015D	3/16/23	BENZENE	0.31	1.00	U	0.31	ug/L	REG
ZBG015D	3/16/23	BISMUTH-212	251.00	541.00	U	-50.10	pCi/L	REG
ZBG015D	3/16/23	BISMUTH-214	25.30	66.10	J	33.80	pCi/L	REG
ZBG015D	3/16/23	CARBON-14	17.70	20.00	U	4.79	pCi/L	REG
ZBG015D	3/16/23	CESIUM-137	10.50	20.00	U	2.65	pCi/L	REG
ZBG015D	3/16/23	COBALT-60	5.72	15.54	J	7.76	pCi/L	REG
ZBG015D	3/16/23	GROSS ALPHA	0.84	3.00	U	0.51	pCi/L	REG
ZBG015D	3/16/23	IODINE-129	0.69	1.00	U	0.09	pCi/L	REG
ZBG015D	3/16/23	LEAD-212	33.70	72.50	U	-8.68	pCi/L	REG
ZBG015D	3/16/23	LEAD-214	20.40	49.00	J	32.30	pCi/L	REG
ZBG015D	3/16/23	MANGANESE	1.00	10.00		21.00	ug/L	REG
ZBG015D	3/16/23	MERCURY	0.02	0.20	J	0.06	ug/L	REG
ZBG015D	3/16/23	NICKEL-59	2.09	5.00	U	0.00	pCi/L	REG
ZBG015D	3/16/23	NICKEL-63	2.65	5.00	U	0.51	pCi/L	REG
ZBG015D	3/16/23	NIOBIUM-94	17.40	36.98	U	-0.85	pCi/L	REG
ZBG015D	3/16/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		0.69	mg/L	REG
ZBG015D	3/16/23	NONVOLATILE BETA	0.91	4.00	U	0.26	pCi/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG015D	3/16/23	PHENOLS	0.01	0.02	U	0.01	mg/L	REG
ZBG015D	3/16/23	PLUTONIUM-238	0.15	1.00	U	0.04	pCi/L	REG
ZBG015D	3/16/23	PLUTONIUM-239/240	0.07	1.00	U	0.00	pCi/L	REG
ZBG015D	3/16/23	PLUTONIUM-241	3.90	5.00	U	2.00	pCi/L	REG
ZBG015D	3/16/23	POTASSIUM-40	101.00	287.20	U	52.50	pCi/L	REG
ZBG015D	3/16/23	RADIUM-226	0.22	1.00	J	0.32	pCi/L	REG
ZBG015D	3/16/23	RADIUM-228	0.47	1.00	U	0.37	pCi/L	REG
ZBG015D	3/16/23	RUTHENIUM-106	257.00	559.00	U	42.40	pCi/L	REG
ZBG015D	3/16/23	STRONTIUM-90	1.67	3.00	U	0.54	pCi/L	REG
ZBG015D	3/16/23	TECHNETIUM-99	1.92	4.16	U	0.56	pCi/L	REG
ZBG015D	3/16/23	TETRACHLOROETHYLENE (PCE)	0.40	1.00	U	0.40	ug/L	REG
ZBG015D	3/16/23	THALLIUM-208	15.90	47.30	U	5.14	pCi/L	REG
ZBG015D	3/16/23	TOLUENE	0.32	1.00	U	0.32	ug/L	REG
ZBG015D	3/16/23	TRICHLOROETHYLENE (TCE)	0.30	1.00	U	0.30	ug/L	REG
ZBG015D	3/16/23	TRITIUM	0.52	1.30		1.74	pCi/mL	REG
ZBG015D	3/16/23	XYLENES	0.33	1.00	U	0.33	ug/L	REG
ZBG016C	3/16/23	ACTINIUM-228	51.80	137.40	U	17.10	pCi/L	REG
ZBG016C	3/16/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG016C	3/16/23	ANTIMONY-125	48.40	74.40	U	6.31	pCi/L	REG
ZBG016C	3/16/23	BENZENE	0.31	1.00	U	0.31	ug/L	REG
ZBG016C	3/16/23	BISMUTH-212	305.00	375.20	U	0.00	pCi/L	REG
ZBG016C	3/16/23	BISMUTH-214	114.00	168.20	U	-36.30	pCi/L	REG
ZBG016C	3/16/23	CESIUM-137	16.50	20.00	U	4.23	pCi/L	REG
ZBG016C	3/16/23	COBALT-60	19.30	30.66	U	0.40	pCi/L	REG
ZBG016C	3/16/23	GROSS ALPHA	1.06	3.00	U	-0.29	pCi/L	REG
ZBG016C	3/16/23	IODINE-129	0.58	1.00	U	0.12	pCi/L	REG
ZBG016C	3/16/23	LEAD-212	35.10	76.10	U	2.63	pCi/L	REG
ZBG016C	3/16/23	LEAD-214	41.40	90.00	U	10.30	pCi/L	REG
ZBG016C	3/16/23	MANGANESE	1.00	10.00		26.60	ug/L	REG
ZBG016C	3/16/23	NIOBIUM-94	6.23	20.57	J	15.20	pCi/L	REG
ZBG016C	3/16/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05	U	0.05	mg/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG016C	3/16/23	NONVOLATILE BETA	0.97	4.00	J	1.17	pCi/L	REG
ZBG016C	3/16/23	PHENOLS	0.01	0.02	U	0.01	mg/L	REG
ZBG016C	3/16/23	POTASSIUM-40	288.00	712.00	U	-63.90	pCi/L	REG
ZBG016C	3/16/23	RADIUM-226	0.30	1.00	U	0.04	pCi/L	REG
ZBG016C	3/16/23	RADIUM-228	0.48	1.00	U	0.03	pCi/L	REG
ZBG016C	3/16/23	RUTHENIUM-106	588.00	731.20	U	-41.40	pCi/L	REG
ZBG016C	3/16/23	TECHNETIUM-99	1.77	3.81	U	0.10	pCi/L	REG
ZBG016C	3/16/23	TETRACHLOROETHYLENE (PCE)	0.40	1.00	U	0.40	ug/L	REG
ZBG016C	3/16/23	THALLIUM-208	16.00	39.20	U	2.26	pCi/L	REG
ZBG016C	3/16/23	TOLUENE	0.32	1.00	U	0.32	ug/L	REG
ZBG016C	3/16/23	TRICHLOROETHYLENE (TCE)	0.30	1.00	U	0.30	ug/L	REG
ZBG016C	3/16/23	TRITIUM	0.52	1.20	J	0.70	pCi/mL	REG
ZBG016C	3/16/23	XYLENES	0.33	1.00	U	0.33	ug/L	REG
ZBG017D	3/16/23	ACTINIUM-228	29.20	83.60	J	42.50	pCi/L	REG
ZBG017D	3/16/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG017D	3/16/23	ANTIMONY-125	28.10	95.50	U	12.10	pCi/L	REG
ZBG017D	3/16/23	BENZENE	0.31	1.00	U	0.31	ug/L	REG
ZBG017D	3/16/23	BISMUTH-212	245.00	455.00	U	0.00	pCi/L	REG
ZBG017D	3/16/23	BISMUTH-214	91.10	94.16	U	2.11	pCi/L	REG
ZBG017D	3/16/23	CESIUM-137	19.30	20.00	U	-0.88	pCi/L	REG
ZBG017D	3/16/23	COBALT-60	19.30	49.70	U	0.95	pCi/L	REG
ZBG017D	3/16/23	GROSS ALPHA	0.90	3.00	U	0.33	pCi/L	REG
ZBG017D	3/16/23	IODINE-129	0.66	1.00	U	0.29	pCi/L	REG
ZBG017D	3/16/23	LEAD-212	33.70	72.90	U	2.13	pCi/L	REG
ZBG017D	3/16/23	LEAD-214	46.20	52.82	U	3.13	pCi/L	REG
ZBG017D	3/16/23	MANGANESE	1.00	10.00	J	4.25	ug/L	REG
ZBG017D	3/16/23	NIوبيUM-94	22.40	26.62	U	-1.28	pCi/L	REG
ZBG017D	3/16/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		0.57	mg/L	REG
ZBG017D	3/16/23	NONVOLATILE BETA	0.78	4.00	U	0.08	pCi/L	REG
ZBG017D	3/16/23	PHENOLS	0.01	0.02	U	0.01	mg/L	REG
ZBG017D	3/16/23	POTASSIUM-40	179.00	513.00	U	-68.40	pCi/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG017D	3/16/23	RADIUM-226	0.29	1.00	U	0.19	pCi/L	REG
ZBG017D	3/16/23	RADIUM-228	0.53	1.00	U	0.50	pCi/L	REG
ZBG017D	3/16/23	RUTHENIUM-106	473.00	1033.00	U	-98.00	pCi/L	REG
ZBG017D	3/16/23	TECHNETIUM-99	1.82	3.90	U	-0.19	pCi/L	REG
ZBG017D	3/16/23	TETRACHLOROETHYLENE (PCE)	0.40	1.00	U	0.40	ug/L	REG
ZBG017D	3/16/23	THALLIUM-208	22.30	34.66	U	2.82	pCi/L	REG
ZBG017D	3/16/23	TOLUENE	0.32	1.00	U	0.32	ug/L	REG
ZBG017D	3/16/23	TRICHLOROETHYLENE (TCE)	0.30	1.00	U	0.30	ug/L	REG
ZBG017D	3/16/23	TRITIUM	0.53	1.24	J	0.96	pCi/mL	REG
ZBG017D	3/16/23	XYLENES	0.33	1.00	U	0.33	ug/L	REG
ZBG018D	3/16/23	ACTINIUM-228	38.70	105.50	U	18.60	pCi/L	REG
ZBG018D	3/16/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG018D	3/16/23	ANTIMONY-125	25.70	63.70	U	18.90	pCi/L	REG
ZBG018D	3/16/23	BENZENE	0.31	1.00	U	0.31	ug/L	REG
ZBG018D	3/16/23	BISMUTH-212	270.00	586.00	U	62.10	pCi/L	REG
ZBG018D	3/16/23	BISMUTH-214	26.50	63.30	J	39.00	pCi/L	REG
ZBG018D	3/16/23	CESIUM-137	18.00	20.00	U	3.23	pCi/L	REG
ZBG018D	3/16/23	COBALT-60	19.30	55.90	U	-10.90	pCi/L	REG
ZBG018D	3/16/23	GROSS ALPHA	1.00	3.00	U	0.00	pCi/L	REG
ZBG018D	3/16/23	IODINE-129	0.61	1.00	U	0.00	pCi/L	REG
ZBG018D	3/16/23	LEAD-212	23.70	50.50	U	-5.10	pCi/L	REG
ZBG018D	3/16/23	LEAD-214	35.00	74.60	U	-11.20	pCi/L	REG
ZBG018D	3/16/23	MANGANESE	1.00	10.00		40.60	ug/L	REG
ZBG018D	3/16/23	NIOBIUM-94	17.40	28.04	U	2.25	pCi/L	REG
ZBG018D	3/16/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		1.03	mg/L	REG
ZBG018D	3/16/23	NONVOLATILE BETA	0.86	4.00	U	0.37	pCi/L	REG
ZBG018D	3/16/23	PHENOLS	0.01	0.02	U	0.01	mg/L	REG
ZBG018D	3/16/23	POTASSIUM-40	52.70	174.10	J	129.00	pCi/L	REG
ZBG018D	3/16/23	RADIUM-226	0.35	1.00	U	0.14	pCi/L	REG
ZBG018D	3/16/23	RADIUM-228	0.57	1.00	J	0.77	pCi/L	REG
ZBG018D	3/16/23	RUTHENIUM-106	242.00	315.80	U	23.80	pCi/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG018D	3/16/23	TECHNETIUM-99	1.81	3.95	U	0.57	pCi/L	REG
ZBG018D	3/16/23	TETRACHLOROETHYLENE (PCE)	0.40	1.00	U	0.40	ug/L	REG
ZBG018D	3/16/23	THALLIUM-208	12.90	38.10	U	8.93	pCi/L	REG
ZBG018D	3/16/23	TOLUENE	0.32	1.00	U	0.32	ug/L	REG
ZBG018D	3/16/23	TRICHLOROETHYLENE (TCE)	0.30	1.00	U	0.30	ug/L	REG
ZBG018D	3/16/23	TRITIUM	0.52	1.23	J	0.95	pCi/mL	REG
ZBG018D	3/16/23	XYLENES	0.33	1.00	U	0.33	ug/L	REG
ZBG019D	3/20/23	ACTINIUM-228	63.40	91.00	U	-7.87	pCi/L	REG
ZBG019D	3/20/23	ALUMINUM	40.00	400.00	J	315.00	ug/L	REG
ZBG019D	3/20/23	ANTIMONY-125	38.10	40.90	U	0.77	pCi/L	REG
ZBG019D	3/20/23	BENZENE	0.31	1.00	U	0.31	ug/L	REG
ZBG019D	3/20/23	BISMUTH-212	250.00	538.00	U	-51.00	pCi/L	REG
ZBG019D	3/20/23	BISMUTH-214	55.70	120.30	U	-1.24	pCi/L	REG
ZBG019D	3/20/23	CESIUM-137	14.00	20.00	U	-0.62	pCi/L	REG
ZBG019D	3/20/23	COBALT-60	7.25	12.61	U	4.02	pCi/L	REG
ZBG019D	3/20/23	GROSS ALPHA	1.30	3.00	J	1.51	pCi/L	REG
ZBG019D	3/20/23	IODINE-129	1.48	1.00	U	-0.07	pCi/L	REG
ZBG019D	3/20/23	LEAD-212	35.20	71.00	U	-6.97	pCi/L	REG
ZBG019D	3/20/23	LEAD-214	31.60	67.80	U	-0.88	pCi/L	REG
ZBG019D	3/20/23	MANGANESE	1.00	10.00		11.30	ug/L	REG
ZBG019D	3/20/23	NIOBIUM-94	16.20	18.24	U	-0.72	pCi/L	REG
ZBG019D	3/20/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		1.23	mg/L	REG
ZBG019D	3/20/23	NONVOLATILE BETA	0.99	4.00	U	0.33	pCi/L	REG
ZBG019D	3/20/23	PHENOLS	0.01	0.02	U	0.01	mg/L	REG
ZBG019D	3/20/23	POTASSIUM-40	183.00	429.00	U	-41.70	pCi/L	REG
ZBG019D	3/20/23	RADIUM-226	0.39	1.00	U	0.30	pCi/L	REG
ZBG019D	3/20/23	RADIUM-228	0.80	1.00	U	0.11	pCi/L	REG
ZBG019D	3/20/23	RUTHENIUM-106	231.00	493.00	U	-3.86	pCi/L	REG
ZBG019D	3/20/23	TECHNETIUM-99	3.41	7.65	J	3.42	pCi/L	REG
ZBG019D	3/20/23	TETRACHLOROETHYLENE (PCE)	0.40	1.00	U	0.40	ug/L	REG
ZBG019D	3/20/23	THALLIUM-208	13.30	30.72	U	2.97	pCi/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG019D	3/20/23	TOLUENE	0.32	1.00	U	0.32	ug/L	REG
ZBG019D	3/20/23	TRICHLOROETHYLENE (TCE)	0.30	1.00	U	0.30	ug/L	REG
ZBG019D	3/20/23	TRITIUM	0.46	1.12	J	1.01	pCi/mL	REG
ZBG019D	3/20/23	XYLENES	0.33	1.00	U	0.33	ug/L	REG
ZBG020D	3/16/23	ACTINIUM-228	44.90	80.10	U	1.17	pCi/L	REG
ZBG020D	3/16/23	ALUMINUM	40.00	400.00	J	136.00	ug/L	REG
ZBG020D	3/16/23	ANTIMONY-125	37.00	75.60	U	17.20	pCi/L	REG
ZBG020D	3/16/23	BENZENE	0.31	1.00	U	0.31	ug/L	REG
ZBG020D	3/16/23	BISMUTH-212	334.00	730.00	U	102.00	pCi/L	REG
ZBG020D	3/16/23	BISMUTH-214	56.70	76.70	U	-3.24	pCi/L	REG
ZBG020D	3/16/23	CARBON-14	17.40	20.00	U	-1.25	pCi/L	REG
ZBG020D	3/16/23	CESIUM-137	10.50	20.00	U	2.84	pCi/L	REG
ZBG020D	3/16/23	COBALT-60	12.60	32.80	U	2.48	pCi/L	REG
ZBG020D	3/16/23	GROSS ALPHA	1.07	3.00	U	0.70	pCi/L	REG
ZBG020D	3/16/23	IODINE-129	0.67	1.00	U	-0.09	pCi/L	REG
ZBG020D	3/16/23	LEAD-212	34.90	64.30	U	-8.70	pCi/L	REG
ZBG020D	3/16/23	LEAD-214	40.90	88.50	U	-22.00	pCi/L	REG
ZBG020D	3/16/23	MANGANESE	1.00	10.00	J	8.72	ug/L	REG
ZBG020D	3/16/23	MERCURY	0.02	0.20	U	0.20	ug/L	REG
ZBG020D	3/16/23	NICKEL-59	2.16	5.00	U	0.00	pCi/L	REG
ZBG020D	3/16/23	NICKEL-63	2.71	5.00	U	0.11	pCi/L	REG
ZBG020D	3/16/23	NIوبيUM-94	11.70	30.42	U	1.02	pCi/L	REG
ZBG020D	3/16/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		1.72	mg/L	REG
ZBG020D	3/16/23	NONVOLATILE BETA	0.90	4.00		23.60	pCi/L	REG
ZBG020D	3/16/23	PHENOLS	0.01	0.02	U	0.01	mg/L	REG
ZBG020D	3/16/23	PLUTONIUM-238	0.17	1.00	U	0.14	pCi/L	REG
ZBG020D	3/16/23	PLUTONIUM-239/240	0.07	1.00	U	-0.01	pCi/L	REG
ZBG020D	3/16/23	PLUTONIUM-241	4.89	5.00	U	1.12	pCi/L	REG
ZBG020D	3/16/23	POTASSIUM-40	132.00	287.20	U	25.50	pCi/L	REG
ZBG020D	3/16/23	RADIUM-226	0.24	1.00	J	0.56	pCi/L	REG
ZBG020D	3/16/23	RADIUM-228	0.47	1.00	U	-0.02	pCi/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG020D	3/16/23	RUTHENIUM-106	272.00	592.00	U	46.30	pCi/L	REG
ZBG020D	3/16/23	STRONTIUM-90	0.36	3.00	U	0.20	pCi/L	REG
ZBG020D	3/16/23	TECHNETIUM-99	1.83	6.15		34.70	pCi/L	REG
ZBG020D	3/16/23	TETRACHLOROETHYLENE (PCE)	0.40	1.00	U	0.40	ug/L	REG
ZBG020D	3/16/23	THALLIUM-208	9.85	30.45	J	11.10	pCi/L	REG
ZBG020D	3/16/23	TOLUENE	0.32	1.00	U	0.32	ug/L	REG
ZBG020D	3/16/23	TRICHLOROETHYLENE (TCE)	0.30	1.00	U	0.30	ug/L	REG
ZBG020D	3/16/23	TRITIUM	0.53	1.22	J	0.76	pCi/mL	REG
ZBG020D	3/16/23	XYLENES	0.33	1.00	U	0.33	ug/L	REG
ZBG 1	7/18/23	ACTINIUM-228	52.30	58.94	U	-0.78	pCi/L	REG
ZBG 1	7/18/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG 1	7/18/23	ANTIMONY-125	29.80	80.80	U	14.30	pCi/L	REG
ZBG 1	7/18/23	BISMUTH-212	222.00	484.00	U	66.70	pCi/L	REG
ZBG 1	7/18/23	BISMUTH-214	61.40	82.00	U	24.70	pCi/L	REG
ZBG 1	7/18/23	CESIUM-137	15.80	33.84	U	-2.37	pCi/L	REG
ZBG 1	7/18/23	COBALT-60	17.00	48.40	U	-6.99	pCi/L	REG
ZBG 1	7/18/23	GROSS ALPHA	1.15	2.42	U	0.22	pCi/L	REG
ZBG 1	7/18/23	IODINE-129	0.59	1.31	UJ	0.48	pCi/L	REG
ZBG 1	7/18/23	LEAD-212	28.60	61.80	U	-2.46	pCi/L	REG
ZBG 1	7/18/23	LEAD-214	28.80	65.20	U	13.30	pCi/L	REG
ZBG 1	7/18/23	MANGANESE	1.00	10.00	J	3.82	ug/L	REG
ZBG 1	7/18/23	NIوبيUM-94	18.60	40.60	U	6.02	pCi/L	REG
ZBG 1	7/18/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		0.94	mg/L	REG
ZBG 1	7/18/23	NONVOLATILE BETA	0.96	2.28	J	1.48	pCi/L	REG
ZBG 1	7/18/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG
ZBG 1	7/18/23	POTASSIUM-40	168.00	388.00	U	-47.60	pCi/L	REG
ZBG 1	7/18/23	RUTHENIUM-106	284.00	400.20	U	0.00	pCi/L	REG
ZBG 1	7/18/23	TECHNETIUM-99	1.83	4.01	U	0.70	pCi/L	REG
ZBG 1	7/18/23	THALLIUM-208	13.30	25.04	U	1.62	pCi/L	REG
ZBG 1	7/18/23	TRITIUM	0.50	1.23		1.49	pCi/mL	REG
ZBG 3	7/18/23	ACTINIUM-228	62.70	80.68	U	4.65	pCi/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG 3	7/18/23	ALUMINUM	40.00	400.00	J	64.00	ug/L	REG
ZBG 3	7/18/23	ANTIMONY-125	29.80	92.20	U	13.70	pCi/L	REG
ZBG 3	7/18/23	BISMUTH-212	274.00	584.00	U	-7.16	pCi/L	REG
ZBG 3	7/18/23	BISMUTH-214	28.60	81.00	J	69.90	pCi/L	REG
ZBG 3	7/18/23	CESIUM-137	12.00	25.22	U	1.11	pCi/L	REG
ZBG 3	7/18/23	COBALT-60	23.20	67.60	U	-13.40	pCi/L	REG
ZBG 3	7/18/23	GROSS ALPHA	1.04	2.02	U	-0.21	pCi/L	REG
ZBG 3	7/18/23	IODINE-129	0.52	1.15	UJ	0.20	pCi/L	REG
ZBG 3	7/18/23	LEAD-212	34.20	74.40	U	-0.72	pCi/L	REG
ZBG 3	7/18/23	LEAD-214	26.10	60.10	J	50.70	pCi/L	REG
ZBG 3	7/18/23	MANGANESE	1.00	10.00		11.60	ug/L	REG
ZBG 3	7/18/23	MERCURY	0.02	0.20	U	0.20	ug/L	REG
ZBG 3	7/18/23	NIوبيUM-94	21.40	46.00	U	1.95	pCi/L	REG
ZBG 3	7/18/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		2.30	mg/L	REG
ZBG 3	7/18/23	NONVOLATILE BETA	0.78	2.06		2.17	pCi/L	REG
ZBG 3	7/18/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG
ZBG 3	7/18/23	POTASSIUM-40	189.00	471.00	U	-28.60	pCi/L	REG
ZBG 3	7/18/23	RUTHENIUM-106	339.00	494.60	U	41.40	pCi/L	REG
ZBG 3	7/18/23	TECHNETIUM-99	1.71	3.89	J	2.06	pCi/L	REG
ZBG 3	7/18/23	THALLIUM-208	15.40	22.50	U	1.22	pCi/L	REG
ZBG 3	7/18/23	TRITIUM	0.52	1.27		1.34	pCi/mL	REG
ZBG 4	7/18/23	ACTINIUM-228	90.60	240.00	U	-18.50	pCi/L	REG
ZBG 4	7/18/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG 4	7/18/23	ANTIMONY-125	61.90	62.54	U	0.39	pCi/L	REG
ZBG 4	7/18/23	BISMUTH-212	355.00	749.00	U	-12.40	pCi/L	REG
ZBG 4	7/18/23	BISMUTH-214	30.60	109.20	J	137.00	pCi/L	REG
ZBG 4	7/18/23	CESIUM-137	14.90	37.90	U	3.52	pCi/L	REG
ZBG 4	7/18/23	COBALT-60	10.50	22.52	U	9.47	pCi/L	REG
ZBG 4	7/18/23	GROSS ALPHA	1.10	2.29	U	0.14	pCi/L	REG
ZBG 4	7/18/23	IODINE-129	0.70	1.47	U	-0.42	pCi/L	REG
ZBG 4	7/18/23	LEAD-212	46.20	101.00	U	-10.80	pCi/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG 4	7/18/23	LEAD-214	23.80	71.40	J	85.30	pCi/L	REG
ZBG 4	7/18/23	MANGANESE	1.00	10.00	J	7.96	ug/L	REG
ZBG 4	7/18/23	MERCURY	0.02	0.20	U	0.20	ug/L	REG
ZBG 4	7/18/23	NIOBIUM-94	20.70	30.06	U	3.20	pCi/L	REG
ZBG 4	7/18/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		1.28	mg/L	REG
ZBG 4	7/18/23	NONVOLATILE BETA	0.80	2.90		8.94	pCi/L	REG
ZBG 4	7/18/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG
ZBG 4	7/18/23	POTASSIUM-40	168.00	406.00	U	132.00	pCi/L	REG
ZBG 4	7/18/23	RUTHENIUM-106	380.00	828.00	U	82.80	pCi/L	REG
ZBG 4	7/18/23	STRONTIUM-90	0.35	0.74	U	0.08	pCi/L	REG
ZBG 4	7/18/23	TECHNETIUM-99	1.72	4.60		11.00	pCi/L	REG
ZBG 4	7/18/23	THALLIUM-208	27.00	51.80	U	-12.40	pCi/L	REG
ZBG 4	7/18/23	TRITIUM	0.48	1.14	J	1.03	pCi/mL	REG
ZBG 5	7/18/23	ACTINIUM-228	62.70	79.58	U	-3.57	pCi/L	REG
ZBG 5	7/18/23	ALUMINUM	40.00	400.00		615.00	ug/L	REG
ZBG 5	7/18/23	ANTIMONY-125	33.40	63.80	U	28.30	pCi/L	REG
ZBG 5	7/18/23	BISMUTH-212	215.00	461.00	U	-32.20	pCi/L	REG
ZBG 5	7/18/23	BISMUTH-214	23.10	77.10		140.00	pCi/L	REG
ZBG 5	7/18/23	CESIUM-137	18.80	40.80	U	-5.29	pCi/L	REG
ZBG 5	7/18/23	COBALT-60	10.70	28.22	U	-0.52	pCi/L	REG
ZBG 5	7/18/23	GROSS ALPHA	1.09	2.08	U	-0.16	pCi/L	REG
ZBG 5	7/18/23	IODINE-129	1.30	2.81	U	-0.09	pCi/L	REG
ZBG 5	8/28/23	IODINE-129	0.68	1.46	U	-0.15	pCi/L	REG
ZBG 5	7/18/23	LEAD-212	39.30	82.10	U	-17.70	pCi/L	REG
ZBG 5	7/18/23	LEAD-214	27.10	70.90		87.60	pCi/L	REG
ZBG 5	7/18/23	MANGANESE	1.00	10.00	J	7.23	ug/L	REG
ZBG 5	7/18/23	MERCURY	0.02	0.20	U	0.20	ug/L	REG
ZBG 5	7/18/23	NIOBIUM-94	13.20	28.62	U	3.81	pCi/L	REG
ZBG 5	7/18/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		0.48	mg/L	REG
ZBG 5	7/18/23	NONVOLATILE BETA	0.91	2.08	U	0.88	pCi/L	REG
ZBG 5	7/18/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG 5	8/28/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG
ZBG 5	7/18/23	POTASSIUM-40	225.00	587.00	U	-78.70	pCi/L	REG
ZBG 5	7/18/23	RUTHENIUM-106	385.00	839.00	U	-23.90	pCi/L	REG
ZBG 5	7/18/23	TECHNETIUM-99	1.73	3.75	U	0.18	pCi/L	REG
ZBG 5	7/18/23	THALLIUM-208	15.40	38.40	U	0.45	pCi/L	REG
ZBG 5	7/18/23	TRITIUM	0.48	1.13	J	0.82	pCi/mL	REG
ZBG 6	7/18/23	ACTINIUM-228	62.70	69.88	U	1.96	pCi/L	REG
ZBG 6	7/18/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG 6	7/18/23	ANTIMONY-125	27.80	75.20	U	23.10	pCi/L	REG
ZBG 6	7/18/23	BISMUTH-212	259.00	561.00	U	-52.50	pCi/L	REG
ZBG 6	7/18/23	BISMUTH-214	22.60	82.20		173.00	pCi/L	REG
ZBG 6	7/18/23	CESIUM-137	17.30	37.30	U	-3.06	pCi/L	REG
ZBG 6	7/18/23	COBALT-60	10.70	26.88	U	3.92	pCi/L	REG
ZBG 6	7/18/23	GROSS ALPHA	0.92	3.02		4.23	pCi/L	REG
ZBG 6	7/18/23	IODINE-129	0.59	1.25	U	-0.30	pCi/L	REG
ZBG 6	7/18/23	LEAD-212	35.90	78.10	U	-0.95	pCi/L	REG
ZBG 6	7/18/23	LEAD-214	28.00	82.20		89.80	pCi/L	REG
ZBG 6	7/18/23	MANGANESE	1.00	10.00	J	4.33	ug/L	REG
ZBG 6	7/18/23	NIObIUM-94	14.00	25.38	U	4.12	pCi/L	REG
ZBG 6	7/18/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		1.39	mg/L	REG
ZBG 6	7/18/23	NONVOLATILE BETA	1.00	2.73		3.60	pCi/L	REG
ZBG 6	7/18/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG
ZBG 6	7/18/23	POTASSIUM-40	208.00	530.00	U	-64.40	pCi/L	REG
ZBG 6	7/18/23	RUTHENIUM-106	176.00	271.40	U	-31.90	pCi/L	REG
ZBG 6	7/18/23	TECHNETIUM-99	1.72	3.82	U	1.02	pCi/L	REG
ZBG 6	7/18/23	THALLIUM-208	14.40	41.60	U	7.53	pCi/L	REG
ZBG 6	7/18/23	TRITIUM	0.48	1.17	J	1.10	pCi/mL	REG
ZBG 7	7/18/23	ACTINIUM-228	100.00	271.60	U	-47.80	pCi/L	REG
ZBG 7	7/18/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG 7	7/18/23	ANTIMONY-125	48.40	55.30	U	-1.17	pCi/L	REG
ZBG 7	7/18/23	BISMUTH-212	307.00	669.00	U	107.00	pCi/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG 7	7/18/23	BISMUTH-214	28.60	83.40	J	67.30	pCi/L	REG
ZBG 7	7/18/23	CESIUM-137	24.60	51.80	U	0.60	pCi/L	REG
ZBG 7	7/18/23	COBALT-60	20.00	41.20	U	1.31	pCi/L	REG
ZBG 7	7/18/23	GROSS ALPHA	1.00	2.50	J	1.41	pCi/L	REG
ZBG 7	7/18/23	IODINE-129	0.60	1.28	U	-0.26	pCi/L	REG
ZBG 7	7/18/23	LEAD-212	44.20	96.60	U	-10.10	pCi/L	REG
ZBG 7	7/18/23	LEAD-214	44.50	103.10	U	45.90	pCi/L	REG
ZBG 7	7/18/23	MANGANESE	1.00	10.00	J	2.23	ug/L	REG
ZBG 7	7/18/23	NIOBIUM-94	18.70	47.10	U	-2.07	pCi/L	REG
ZBG 7	7/18/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		0.76	mg/L	REG
ZBG 7	7/18/23	NONVOLATILE BETA	0.83	1.94	U	0.74	pCi/L	REG
ZBG 7	7/18/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG
ZBG 7	7/18/23	POTASSIUM-40	234.00	562.00	U	-8.78	pCi/L	REG
ZBG 7	7/18/23	RUTHENIUM-106	461.00	1005.00	U	90.70	pCi/L	REG
ZBG 7	7/18/23	TECHNETIUM-99	1.74	3.74	U	-0.22	pCi/L	REG
ZBG 7	7/18/23	THALLIUM-208	15.90	42.10	U	12.70	pCi/L	REG
ZBG 7	7/18/23	TRITIUM	0.48	1.21		1.60	pCi/mL	REG
ZBG 8	7/18/23	ACTINIUM-228	90.60	124.60	U	10.10	pCi/L	REG
ZBG 8	7/18/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG 8	7/18/23	ANTIMONY-125	59.50	80.30	U	8.85	pCi/L	REG
ZBG 8	7/18/23	BISMUTH-212	529.00	1141.00	U	-66.20	pCi/L	REG
ZBG 8	7/18/23	BISMUTH-214	75.60	88.36	U	5.36	pCi/L	REG
ZBG 8	7/18/23	CESIUM-137	30.10	64.10	U	-1.99	pCi/L	REG
ZBG 8	7/18/23	COBALT-60	26.20	68.20	U	-6.03	pCi/L	REG
ZBG 8	7/18/23	GROSS ALPHA	1.32	3.07	U	1.22	pCi/L	REG
ZBG 8	7/18/23	IODINE-129	0.54	1.20	UJ	0.42	pCi/L	REG
ZBG 8	8/28/23	IODINE-129	0.56	1.20	U	-0.09	pCi/L	REG
ZBG 8	7/18/23	LEAD-212	37.10	81.10	U	-9.34	pCi/L	REG
ZBG 8	7/18/23	LEAD-214	40.00	86.20	U	5.45	pCi/L	REG
ZBG 8	7/18/23	MANGANESE	1.00	10.00	J	5.75	ug/L	REG
ZBG 8	7/18/23	NIOBIUM-94	6.23	18.25	J	10.10	pCi/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG 8	7/18/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		0.92	mg/L	REG
ZBG 8	7/18/23	NONVOLATILE BETA	0.96	2.18	U	0.53	pCi/L	REG
ZBG 8	7/18/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG
ZBG 8	8/28/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG
ZBG 8	7/18/23	POTASSIUM-40	234.00	574.00	U	29.80	pCi/L	REG
ZBG 8	7/18/23	RUTHENIUM-106	344.00	550.00	U	56.60	pCi/L	REG
ZBG 8	7/18/23	TECHNETIUM-99	1.79	3.87	U	0.12	pCi/L	REG
ZBG 8	7/18/23	THALLIUM-208	15.90	49.30	U	7.91	pCi/L	REG
ZBG 8	7/18/23	TRITIUM	0.48	1.23		1.91	pCi/mL	REG
ZBG002C	7/18/23	ACTINIUM-228	38.70	92.70	U	20.40	pCi/L	REG
ZBG002C	7/18/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG002C	7/18/23	ANTIMONY-125	25.70	65.30	U	6.54	pCi/L	REG
ZBG002C	7/18/23	BISMUTH-212	203.00	427.00	U	2.39	pCi/L	REG
ZBG002C	7/18/23	BISMUTH-214	27.40	75.20	J	38.80	pCi/L	REG
ZBG002C	7/18/23	CARBON-14	16.60	36.80	U	8.15	pCi/L	REG
ZBG002C	8/28/23	CARBON-14	19.20	40.80	U	-3.54	pCi/L	REG
ZBG002C	7/18/23	CESIUM-137	15.00	32.28	U	-2.98	pCi/L	REG
ZBG002C	7/18/23	COBALT-60	23.20	67.60	U	-13.40	pCi/L	REG
ZBG002C	7/18/23	GROSS ALPHA	1.12	2.09	U	-0.40	pCi/L	REG
ZBG002C	7/18/23	IODINE-129	0.58	1.29	UJ	0.36	pCi/L	REG
ZBG002C	8/28/23	IODINE-129	0.61	1.32	U	0.11	pCi/L	REG
ZBG002C	7/18/23	LEAD-212	30.80	71.00	U	-18.10	pCi/L	REG
ZBG002C	7/18/23	LEAD-214	32.20	72.60	U	15.30	pCi/L	REG
ZBG002C	7/18/23	MANGANESE	1.00	10.00	J	6.54	ug/L	REG
ZBG002C	7/18/23	MERCURY	0.02	0.20	U	0.20	ug/L	REG
ZBG002C	7/18/23	NICKEL-59	2.23	4.91	U	0.73	pCi/L	REG
ZBG002C	7/18/23	NICKEL-63	2.62	5.58	U	-0.51	pCi/L	REG
ZBG002C	7/18/23	NIObIUM-94	19.20	22.58	U	-0.84	pCi/L	REG
ZBG002C	7/18/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		3.78	mg/L	REG
ZBG002C	7/18/23	NONVOLATILE BETA	0.79	5.99		64.50	pCi/L	REG
ZBG002C	7/18/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG002C	8/28/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG
ZBG002C	7/18/23	PLUTONIUM-241	4.75	10.09	U	1.54	pCi/L	REG
ZBG002C	7/18/23	POTASSIUM-40	144.00	290.00	U	-35.80	pCi/L	REG
ZBG002C	7/18/23	RUTHENIUM-106	287.00	314.40	U	0.00	pCi/L	REG
ZBG002C	7/18/23	STRONTIUM-90	0.28	0.58	U	-0.09	pCi/L	REG
ZBG002C	7/18/23	TECHNETIUM-99	1.93	8.99		103.00	pCi/L	REG
ZBG002C	7/18/23	THALLIUM-208	16.30	17.10	U	0.17	pCi/L	REG
ZBG002C	7/18/23	TRITIUM	0.52	1.25	J	1.11	pCi/mL	REG
ZBG002D	7/18/23	ACTINIUM-228	52.30	119.10	U	12.00	pCi/L	REG
ZBG002D	7/18/23	ALUMINUM	40.00	400.00		576.00	ug/L	REG
ZBG002D	7/18/23	ANTIMONY-125	29.80	81.60	U	25.40	pCi/L	REG
ZBG002D	7/18/23	BISMUTH-212	255.00	559.00	U	-94.30	pCi/L	REG
ZBG002D	7/18/23	BISMUTH-214	54.10	73.36	U	18.00	pCi/L	REG
ZBG002D	7/18/23	CARBON-14	16.30	35.40	U	2.34	pCi/L	REG
ZBG002D	8/28/23	CARBON-14	19.20	40.20	U	-7.09	pCi/L	REG
ZBG002D	7/18/23	CESIUM-137	18.10	39.70	U	-6.48	pCi/L	REG
ZBG002D	7/18/23	COBALT-60	5.72	15.54	J	7.76	pCi/L	REG
ZBG002D	7/18/23	GROSS ALPHA	1.07	2.11	U	-0.11	pCi/L	REG
ZBG002D	7/18/23	IODINE-129	1.98	4.30	U	0.07	pCi/L	REG
ZBG002D	8/28/23	IODINE-129	0.58	1.26	U	0.07	pCi/L	REG
ZBG002D	7/18/23	LEAD-212	30.80	67.00	U	-1.66	pCi/L	REG
ZBG002D	7/18/23	LEAD-214	25.90	68.10	J	26.00	pCi/L	REG
ZBG002D	7/18/23	MANGANESE	1.00	10.00	J	9.02	ug/L	REG
ZBG002D	7/18/23	MERCURY	0.02	0.20	U	0.20	ug/L	REG
ZBG002D	7/18/23	NICKEL-59	2.13	4.55	U	-0.73	pCi/L	REG
ZBG002D	7/18/23	NICKEL-63	2.52	5.50	U	0.89	pCi/L	REG
ZBG002D	7/18/23	NIوبيUM-94	24.50	53.70	U	-8.08	pCi/L	REG
ZBG002D	7/18/23	NITRATE-NITRITE AS NITROGEN	0.09	0.25		4.44	mg/L	REG
ZBG002D	7/18/23	NONVOLATILE BETA	0.83	4.85		38.00	pCi/L	REG
ZBG002D	7/18/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG
ZBG002D	8/28/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG002D	7/18/23	PLUTONIUM-241	3.87	8.25	U	0.87	pCi/L	REG
ZBG002D	7/18/23	POTASSIUM-40	144.00	287.20	U	-42.90	pCi/L	REG
ZBG002D	7/18/23	RUTHENIUM-106	287.00	573.00	U	86.80	pCi/L	REG
ZBG002D	7/18/23	STRONTIUM-90	0.32	0.71	U	0.24	pCi/L	REG
ZBG002D	7/18/23	TECHNETIUM-99	1.81	6.61		45.70	pCi/L	REG
ZBG002D	7/18/23	THALLIUM-208	13.30	33.50	U	5.18	pCi/L	REG
ZBG002D	7/18/23	TRITIUM	0.51	1.24		1.24	pCi/mL	REG
ZBG009D	7/18/23	ACTINIUM-228	46.10	82.30	U	6.00	pCi/L	REG
ZBG009D	7/18/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG009D	7/18/23	ANTIMONY-125	33.40	64.20	U	6.52	pCi/L	REG
ZBG009D	7/18/23	BISMUTH-212	307.00	671.00	U	94.30	pCi/L	REG
ZBG009D	7/18/23	BISMUTH-214	61.80	109.20	U	-28.40	pCi/L	REG
ZBG009D	7/18/23	CESIUM-137	16.10	34.02	U	-0.17	pCi/L	REG
ZBG009D	7/18/23	COBALT-60	14.30	16.66	U	0.67	pCi/L	REG
ZBG009D	7/18/23	GROSS ALPHA	1.25	2.61	U	0.15	pCi/L	REG
ZBG009D	7/18/23	IODINE-129	1.23	2.73	UJ	0.70	pCi/L	REG
ZBG009D	8/28/23	IODINE-129	0.50	1.08	U	-0.02	pCi/L	REG
ZBG009D	7/18/23	LEAD-212	32.40	68.40	U	-8.70	pCi/L	REG
ZBG009D	7/18/23	LEAD-214	31.50	38.30	U	-1.89	pCi/L	REG
ZBG009D	7/18/23	MANGANESE	1.00	10.00		26.80	ug/L	REG
ZBG009D	7/18/23	NIOBIUM-94	18.10	39.50	U	5.38	pCi/L	REG
ZBG009D	7/18/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		1.74	mg/L	REG
ZBG009D	7/18/23	NONVOLATILE BETA	0.88	1.92	U	0.23	pCi/L	REG
ZBG009D	7/18/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG
ZBG009D	8/28/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG
ZBG009D	7/18/23	POTASSIUM-40	144.00	320.60	U	50.10	pCi/L	REG
ZBG009D	7/18/23	RUTHENIUM-106	146.00	312.40	U	22.00	pCi/L	REG
ZBG009D	7/18/23	TECHNETIUM-99	1.77	3.85	U	0.28	pCi/L	REG
ZBG009D	7/18/23	THALLIUM-208	14.40	26.78	U	3.26	pCi/L	REG
ZBG009D	7/18/23	TRITIUM	0.47	1.20		1.59	pCi/mL	REG
ZBG010D	7/18/23	ACTINIUM-228	68.80	144.00	U	-24.40	pCi/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG010D	7/18/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG010D	7/18/23	ANTIMONY-125	28.30	79.10	U	14.70	pCi/L	REG
ZBG010D	7/18/23	BISMUTH-212	298.00	780.00	U	-72.70	pCi/L	REG
ZBG010D	7/18/23	BISMUTH-214	57.40	124.00	U	2.76	pCi/L	REG
ZBG010D	7/18/23	CESIUM-137	15.50	33.02	U	2.26	pCi/L	REG
ZBG010D	7/18/23	COBALT-60	12.70	23.46	U	0.83	pCi/L	REG
ZBG010D	7/18/23	GROSS ALPHA	1.25	2.82	U	0.86	pCi/L	REG
ZBG010D	7/18/23	IODINE-129	1.00	2.26	UJ	0.94	pCi/L	REG
ZBG010D	8/28/23	IODINE-129	0.50	1.08	U	0.08	pCi/L	REG
ZBG010D	7/18/23	LEAD-212	32.90	71.30	U	-2.32	pCi/L	REG
ZBG010D	7/18/23	LEAD-214	30.90	67.10	U	-0.84	pCi/L	REG
ZBG010D	7/18/23	MANGANESE	1.00	10.00		40.50	ug/L	REG
ZBG010D	7/18/23	NIوبيUM-94	9.75	25.91	U	4.18	pCi/L	REG
ZBG010D	7/18/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		0.57	mg/L	REG
ZBG010D	7/18/23	NONVOLATILE BETA	0.95	2.36	J	1.97	pCi/L	REG
ZBG010D	7/18/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG
ZBG010D	8/28/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG
ZBG010D	7/18/23	POTASSIUM-40	124.00	271.60	U	35.40	pCi/L	REG
ZBG010D	7/18/23	RUTHENIUM-106	197.00	273.40	U	-23.60	pCi/L	REG
ZBG010D	7/18/23	TECHNETIUM-99	1.74	3.74	U	-0.21	pCi/L	REG
ZBG010D	7/18/23	THALLIUM-208	15.40	15.97	U	0.06	pCi/L	REG
ZBG010D	7/18/23	TRITIUM	0.48	1.15	J	1.00	pCi/mL	REG
ZBG011D	7/18/23	ACTINIUM-228	67.20	153.40	U	23.50	pCi/L	REG
ZBG011D	7/18/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG011D	7/18/23	ANTIMONY-125	51.40	76.00	U	-3.79	pCi/L	REG
ZBG011D	7/18/23	BISMUTH-212	410.00	882.00	U	72.40	pCi/L	REG
ZBG011D	7/18/23	BISMUTH-214	24.90	81.50	J	63.20	pCi/L	REG
ZBG011D	7/18/23	CESIUM-137	24.00	52.20	U	7.33	pCi/L	REG
ZBG011D	7/18/23	COBALT-60	20.00	41.40	U	4.66	pCi/L	REG
ZBG011D	7/18/23	GROSS ALPHA	0.94	2.25	U	0.93	pCi/L	REG
ZBG011D	7/18/23	IODINE-129	0.73	1.56	U	-0.29	pCi/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG011D	8/28/23	IODINE-129	0.60	1.28	U	-0.06	pCi/L	REG
ZBG011D	7/18/23	LEAD-212	36.50	79.50	U	8.09	pCi/L	REG
ZBG011D	7/18/23	LEAD-214	29.60	75.80	J	47.80	pCi/L	REG
ZBG011D	7/18/23	MANGANESE	1.00	10.00	J	7.16	ug/L	REG
ZBG011D	7/18/23	NIOBIUM-94	16.60	23.56	U	2.21	pCi/L	REG
ZBG011D	7/18/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		0.22	mg/L	REG
ZBG011D	7/18/23	NONVOLATILE BETA	1.03	2.33	U	0.67	pCi/L	REG
ZBG011D	7/18/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG
ZBG011D	8/28/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG
ZBG011D	7/18/23	POTASSIUM-40	234.00	566.00	U	4.81	pCi/L	REG
ZBG011D	7/18/23	RUTHENIUM-106	424.00	518.00	U	24.10	pCi/L	REG
ZBG011D	7/18/23	TECHNETIUM-99	1.76	3.82	U	0.18	pCi/L	REG
ZBG011D	7/18/23	THALLIUM-208	18.30	45.50	U	8.28	pCi/L	REG
ZBG011D	7/18/23	TRITIUM	0.48	1.09	J	0.51	pCi/mL	REG
ZBG012D	7/18/23	ACTINIUM-228	90.60	104.14	U	3.85	pCi/L	REG
ZBG012D	7/18/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG012D	7/18/23	ANTIMONY-125	41.70	96.90	U	29.60	pCi/L	REG
ZBG012D	7/18/23	BISMUTH-212	372.00	812.00	U	-123.00	pCi/L	REG
ZBG012D	7/18/23	BISMUTH-214	73.10	107.10	U	16.30	pCi/L	REG
ZBG012D	7/18/23	CESIUM-137	23.50	49.30	U	-0.44	pCi/L	REG
ZBG012D	7/18/23	COBALT-60	20.00	51.40	U	1.60	pCi/L	REG
ZBG012D	7/18/23	GROSS ALPHA	2.04	4.78	U	1.73	pCi/L	REG
ZBG012D	7/18/23	IODINE-129	0.67	1.44	U	-0.08	pCi/L	REG
ZBG012D	8/28/23	IODINE-129	0.56	1.19	U	-0.08	pCi/L	REG
ZBG012D	7/18/23	LEAD-212	29.10	63.10	U	6.03	pCi/L	REG
ZBG012D	7/18/23	LEAD-214	47.10	101.90	U	6.31	pCi/L	REG
ZBG012D	7/18/23	MANGANESE	1.00	10.00	J	4.26	ug/L	REG
ZBG012D	7/18/23	NIOBIUM-94	18.70	61.70	U	-0.38	pCi/L	REG
ZBG012D	7/18/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		0.42	mg/L	REG
ZBG012D	7/18/23	NONVOLATILE BETA	0.96	2.17	U	0.59	pCi/L	REG
ZBG012D	7/18/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG012D	8/28/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG
ZBG012D	7/18/23	POTASSIUM-40	234.00	574.00	U	29.80	pCi/L	REG
ZBG012D	7/18/23	RUTHENIUM-106	429.00	937.00	U	-105.00	pCi/L	REG
ZBG012D	7/18/23	TECHNETIUM-99	1.70	3.70	U	0.37	pCi/L	REG
ZBG012D	7/18/23	THALLIUM-208	22.20	34.18	U	6.09	pCi/L	REG
ZBG012D	7/18/23	TRITIUM	0.48	1.15	J	1.05	pCi/mL	REG
ZBG013D	7/18/23	ACTINIUM-228	63.20	67.08	U	-0.94	pCi/L	REG
ZBG013D	7/18/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG013D	7/18/23	ANTIMONY-125	34.90	58.70	U	6.71	pCi/L	REG
ZBG013D	7/18/23	BISMUTH-212	182.00	390.00	U	38.00	pCi/L	REG
ZBG013D	7/18/23	BISMUTH-214	64.10	138.30	U	-1.62	pCi/L	REG
ZBG013D	7/18/23	CESIUM-137	21.70	47.70	U	-8.03	pCi/L	REG
ZBG013D	7/18/23	COBALT-60	16.40	21.76	U	4.23	pCi/L	REG
ZBG013D	7/18/23	GROSS ALPHA	1.78	3.59	U	-0.04	pCi/L	REG
ZBG013D	7/18/23	IODINE-129	0.52	1.07	U	-0.43	pCi/L	REG
ZBG013D	8/28/23	IODINE-129	0.60	1.30	U	0.02	pCi/L	REG
ZBG013D	7/18/23	LEAD-212	34.90	75.90	U	-1.19	pCi/L	REG
ZBG013D	7/18/23	LEAD-214	35.10	76.10	U	-1.76	pCi/L	REG
ZBG013D	7/18/23	MANGANESE	1.00	10.00	U	10.00	ug/L	REG
ZBG013D	7/18/23	NIOBIUM-94	11.60	31.12	U	5.12	pCi/L	REG
ZBG013D	7/18/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		0.37	mg/L	REG
ZBG013D	7/18/23	NONVOLATILE BETA	0.89	1.93	U	0.27	pCi/L	REG
ZBG013D	7/18/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG
ZBG013D	8/28/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG
ZBG013D	7/18/23	POTASSIUM-40	183.00	463.00	U	-15.10	pCi/L	REG
ZBG013D	7/18/23	RUTHENIUM-106	299.00	651.00	U	54.00	pCi/L	REG
ZBG013D	7/18/23	TECHNETIUM-99	1.75	3.77	U	0.00	pCi/L	REG
ZBG013D	7/18/23	THALLIUM-208	18.70	24.02	U	-2.01	pCi/L	REG
ZBG013D	7/18/23	TRITIUM	0.51	1.12	U	0.18	pCi/mL	REG
ZBG014D	7/18/23	ACTINIUM-228	46.10	122.30	U	2.22	pCi/L	REG
ZBG014D	7/18/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG014D	7/18/23	ANTIMONY-125	27.80	51.60	U	8.41	pCi/L	REG
ZBG014D	7/18/23	BISMUTH-212	211.00	455.00	U	-50.10	pCi/L	REG
ZBG014D	7/18/23	BISMUTH-214	61.40	108.80	U	-15.10	pCi/L	REG
ZBG014D	7/18/23	CESIUM-137	11.90	25.70	U	3.23	pCi/L	REG
ZBG014D	7/18/23	COBALT-60	14.30	23.50	U	-0.95	pCi/L	REG
ZBG014D	7/18/23	GROSS ALPHA	2.16	4.60	U	0.50	pCi/L	REG
ZBG014D	7/18/23	IODINE-129	0.58	1.26	U	0.09	pCi/L	REG
ZBG014D	8/28/23	IODINE-129	0.61	1.28	U	-0.27	pCi/L	REG
ZBG014D	7/18/23	LEAD-212	27.60	63.60	U	-14.40	pCi/L	REG
ZBG014D	7/18/23	LEAD-214	24.80	60.00	U	11.50	pCi/L	REG
ZBG014D	7/18/23	MANGANESE	1.00	10.00	U	10.00	ug/L	REG
ZBG014D	7/18/23	NIوبيUM-94	21.60	27.92	U	1.52	pCi/L	REG
ZBG014D	7/18/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		0.42	mg/L	REG
ZBG014D	7/18/23	NONVOLATILE BETA	0.88	1.92	U	0.25	pCi/L	REG
ZBG014D	7/18/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG
ZBG014D	8/28/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG
ZBG014D	7/18/23	POTASSIUM-40	189.00	471.00	U	-28.60	pCi/L	REG
ZBG014D	7/18/23	RUTHENIUM-106	289.00	627.00	U	-18.60	pCi/L	REG
ZBG014D	7/18/23	TECHNETIUM-99	1.75	3.77	U	-0.16	pCi/L	REG
ZBG014D	7/18/23	THALLIUM-208	14.40	28.74	U	8.12	pCi/L	REG
ZBG014D	7/18/23	TRITIUM	0.48	1.11	J	0.67	pCi/mL	REG
ZBG015D	7/20/23	ACTINIUM-228	50.70	128.10	U	24.50	pCi/L	REG
ZBG015D	7/20/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG015D	7/20/23	ANTIMONY-125	59.50	78.64	U	13.00	pCi/L	REG
ZBG015D	7/20/23	BISMUTH-212	357.00	771.00	U	-87.10	pCi/L	REG
ZBG015D	7/20/23	BISMUTH-214	93.50	108.14	U	9.93	pCi/L	REG
ZBG015D	7/20/23	CARBON-14	16.70	36.04	U	1.74	pCi/L	REG
ZBG015D	8/28/23	CARBON-14	19.30	40.30	U	-7.45	pCi/L	REG
ZBG015D	7/20/23	CESIUM-137	16.50	35.06	U	3.70	pCi/L	REG
ZBG015D	7/20/23	COBALT-60	20.00	37.70	U	-2.69	pCi/L	REG
ZBG015D	7/20/23	GROSS ALPHA	1.47	3.18	U	0.48	pCi/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG015D	7/20/23	IODINE-129	0.67	1.42	U	-0.16	pCi/L	REG
ZBG015D	8/28/23	IODINE-129	0.55	1.20	U	-0.02	pCi/L	REG
ZBG015D	7/20/23	LEAD-212	43.40	70.60	U	0.00	pCi/L	REG
ZBG015D	7/20/23	LEAD-214	44.50	96.10	U	5.45	pCi/L	REG
ZBG015D	7/20/23	MANGANESE	1.00	10.00		22.90	ug/L	REG
ZBG015D	7/20/23	MERCURY	0.02	0.20	J	0.08	ug/L	REG
ZBG015D	7/20/23	NICKEL-59	2.58	5.40	U	-0.85	pCi/L	REG
ZBG015D	7/20/23	NICKEL-63	2.84	6.14	U	0.14	pCi/L	REG
ZBG015D	7/20/23	NIObIUM-94	14.00	36.40	U	5.78	pCi/L	REG
ZBG015D	7/20/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		0.71	mg/L	REG
ZBG015D	7/20/23	NONVOLATILE BETA	0.85	1.98	J	0.90	pCi/L	REG
ZBG015D	7/20/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG
ZBG015D	8/28/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG
ZBG015D	7/20/23	PLUTONIUM-241	4.40	9.32	U	0.63	pCi/L	REG
ZBG015D	7/20/23	POTASSIUM-40	168.00	365.20	U	50.10	pCi/L	REG
ZBG015D	7/20/23	RUTHENIUM-106	445.00	629.60	U	31.50	pCi/L	REG
ZBG015D	7/20/23	STRONTIUM-90	0.35	0.71	U	-0.15	pCi/L	REG
ZBG015D	7/20/23	TECHNETIUM-99	1.72	3.71	U	-0.09	pCi/L	REG
ZBG015D	7/20/23	THALLIUM-208	25.50	29.14	U	0.98	pCi/L	REG
ZBG015D	7/20/23	TRITIUM	0.48	1.27		2.23	pCi/mL	REG
ZBG016C	7/20/23	ACTINIUM-228	57.80	103.80	U	10.70	pCi/L	REG
ZBG016C	7/20/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG016C	7/20/23	ANTIMONY-125	31.70	67.70	U	12.10	pCi/L	REG
ZBG016C	7/20/23	BISMUTH-212	190.00	400.00	U	14.30	pCi/L	REG
ZBG016C	7/20/23	BISMUTH-214	23.60	57.80	J	35.20	pCi/L	REG
ZBG016C	7/20/23	CESIUM-137	11.70	25.36	U	3.74	pCi/L	REG
ZBG016C	7/20/23	COBALT-60	10.70	14.66	U	2.63	pCi/L	REG
ZBG016C	7/20/23	GROSS ALPHA	0.85	1.65	U	-0.07	pCi/L	REG
ZBG016C	7/20/23	IODINE-129	0.68	1.48	U	0.12	pCi/L	REG
ZBG016C	7/20/23	LEAD-212	36.80	72.80	U	-17.30	pCi/L	REG
ZBG016C	7/20/23	LEAD-214	24.90	58.30	U	7.36	pCi/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG016C	7/20/23	MANGANESE	1.00	10.00		31.10	ug/L	REG
ZBG016C	7/20/23	NIOBIUM-94	14.00	17.70	U	1.31	pCi/L	REG
ZBG016C	7/20/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05	U	0.05	mg/L	REG
ZBG016C	7/20/23	NONVOLATILE BETA	0.89	2.11	J	1.28	pCi/L	REG
ZBG016C	7/20/23	PHENOLS	0.01	0.02	J	0.014	mg/L	REG
ZBG016C	7/20/23	POTASSIUM-40	189.00	465.00	U	-57.20	pCi/L	REG
ZBG016C	7/20/23	RUTHENIUM-106	365.00	384.36	U	0.00	pCi/L	REG
ZBG016C	7/20/23	TECHNETIUM-99	1.75	3.79	U	0.18	pCi/L	REG
ZBG016C	7/20/23	THALLIUM-208	17.10	17.31	U	0.08	pCi/L	REG
ZBG016C	7/20/23	TRITIUM	0.48	1.16	J	1.10	pCi/mL	REG
ZBG017D	7/20/23	ACTINIUM-228	67.20	118.60	U	7.14	pCi/L	REG
ZBG017D	7/20/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG017D	7/20/23	ANTIMONY-125	45.20	86.40	U	28.20	pCi/L	REG
ZBG017D	7/20/23	BISMUTH-212	352.00	758.00	U	-78.60	pCi/L	REG
ZBG017D	7/20/23	BISMUTH-214	66.90	119.30	U	7.46	pCi/L	REG
ZBG017D	7/20/23	CESIUM-137	18.40	39.40	U	4.23	pCi/L	REG
ZBG017D	7/20/23	COBALT-60	31.00	74.00	U	-15.10	pCi/L	REG
ZBG017D	7/20/23	GROSS ALPHA	1.11	2.52	U	0.74	pCi/L	REG
ZBG017D	7/20/23	IODINE-129	0.58	1.24	U	-0.15	pCi/L	REG
ZBG017D	8/28/23	IODINE-129	0.53	1.12	U	-0.21	pCi/L	REG
ZBG017D	7/20/23	LEAD-212	32.20	70.00	U	7.13	pCi/L	REG
ZBG017D	7/20/23	LEAD-214	36.00	76.80	U	2.38	pCi/L	REG
ZBG017D	7/20/23	MANGANESE	1.00	10.00	J	5.10	ug/L	REG
ZBG017D	7/20/23	NIOBIUM-94	16.60	42.40	U	2.44	pCi/L	REG
ZBG017D	7/20/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		1.65	mg/L	REG
ZBG017D	7/20/23	NONVOLATILE BETA	0.82	1.79	U	0.20	pCi/L	REG
ZBG017D	7/20/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG
ZBG017D	8/28/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG
ZBG017D	7/20/23	POTASSIUM-40	168.00	357.60	U	36.50	pCi/L	REG
ZBG017D	7/20/23	RUTHENIUM-106	387.00	843.00	U	-90.70	pCi/L	REG
ZBG017D	7/20/23	TECHNETIUM-99	1.69	3.66	U	0.14	pCi/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG017D	7/20/23	THALLIUM-208	23.90	46.50	U	-10.10	pCi/L	REG
ZBG017D	7/20/23	TRITIUM	0.48	1.22		1.75	pCi/mL	REG
ZBG018D	7/20/23	ACTINIUM-228	46.10	95.90	U	8.87	pCi/L	REG
ZBG018D	7/20/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG018D	7/20/23	ANTIMONY-125	23.30	64.30	U	10.50	pCi/L	REG
ZBG018D	7/20/23	BISMUTH-212	256.00	560.00	U	-86.10	pCi/L	REG
ZBG018D	7/20/23	BISMUTH-214	72.30	119.70	U	-23.20	pCi/L	REG
ZBG018D	7/20/23	CESIUM-137	14.30	30.04	U	0.35	pCi/L	REG
ZBG018D	7/20/23	COBALT-60	14.30	15.39	U	0.77	pCi/L	REG
ZBG018D	7/20/23	GROSS ALPHA	1.00	1.98	U	-0.09	pCi/L	REG
ZBG018D	7/20/23	IODINE-129	0.64	1.36	U	-0.19	pCi/L	REG
ZBG018D	8/28/23	IODINE-129	0.96	2.03	U	-0.24	pCi/L	REG
ZBG018D	7/20/23	LEAD-212	34.70	75.10	U	-5.15	pCi/L	REG
ZBG018D	7/20/23	LEAD-214	38.70	105.50	U	-24.00	pCi/L	REG
ZBG018D	7/20/23	MANGANESE	1.00	10.00		36.70	ug/L	REG
ZBG018D	7/20/23	NIOBIUM-94	21.50	47.10	U	-7.61	pCi/L	REG
ZBG018D	7/20/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		0.98	mg/L	REG
ZBG018D	7/20/23	NONVOLATILE BETA	0.78	1.82	J	0.83	pCi/L	REG
ZBG018D	7/20/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG
ZBG018D	8/28/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG
ZBG018D	7/20/23	POTASSIUM-40	144.00	290.00	U	-35.80	pCi/L	REG
ZBG018D	7/20/23	RUTHENIUM-106	345.00	447.40	U	0.00	pCi/L	REG
ZBG018D	7/20/23	TECHNETIUM-99	1.69	3.64	U	-0.02	pCi/L	REG
ZBG018D	7/20/23	THALLIUM-208	14.40	31.10	U	3.40	pCi/L	REG
ZBG018D	7/20/23	TRITIUM	0.48	1.15	J	1.09	pCi/mL	REG
ZBG019D	7/18/23	ACTINIUM-228	63.20	156.00	U	-14.50	pCi/L	REG
ZBG019D	7/18/23	ALUMINUM	40.00	400.00	J	218.00	ug/L	REG
ZBG019D	7/18/23	ANTIMONY-125	25.60	72.20	U	17.80	pCi/L	REG
ZBG019D	7/18/23	BISMUTH-212	227.00	479.00	U	5.60	pCi/L	REG
ZBG019D	7/18/23	BISMUTH-214	58.50	98.70	U	9.01	pCi/L	REG
ZBG019D	7/18/23	CESIUM-137	16.80	35.66	U	-1.41	pCi/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG019D	7/18/23	COBALT-60	6.51	28.31	U	-0.82	pCi/L	REG
ZBG019D	7/18/23	GROSS ALPHA	1.24	2.72	U	0.54	pCi/L	REG
ZBG019D	7/18/23	IODINE-129	1.54	3.43	UJ	0.99	pCi/L	REG
ZBG019D	8/28/23	IODINE-129	0.69	1.51	U	0.22	pCi/L	REG
ZBG019D	7/18/23	LEAD-212	30.80	65.80	U	-15.20	pCi/L	REG
ZBG019D	7/18/23	LEAD-214	37.70	70.70	U	1.23	pCi/L	REG
ZBG019D	7/18/23	MANGANESE	1.00	10.00		13.50	ug/L	REG
ZBG019D	7/18/23	NIوبيUM-94	15.70	41.90	U	-2.30	pCi/L	REG
ZBG019D	7/18/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		1.56	mg/L	REG
ZBG019D	7/18/23	NONVOLATILE BETA	0.83	1.95	J	1.00	pCi/L	REG
ZBG019D	7/18/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG
ZBG019D	8/28/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG
ZBG019D	7/18/23	POTASSIUM-40	157.00	377.00	U	-6.15	pCi/L	REG
ZBG019D	7/18/23	RUTHENIUM-106	243.00	533.00	U	-85.30	pCi/L	REG
ZBG019D	7/18/23	TECHNETIUM-99	1.72	3.69	U	-0.31	pCi/L	REG
ZBG019D	7/18/23	THALLIUM-208	15.40	41.40	U	7.09	pCi/L	REG
ZBG019D	7/18/23	TRITIUM	0.51	1.22	J	1.07	pCi/mL	REG
ZBG020D	7/18/23	ACTINIUM-228	50.70	132.10	U	21.40	pCi/L	REG
ZBG020D	7/18/23	ALUMINUM	40.00	400.00	U	400.00	ug/L	REG
ZBG020D	7/18/23	ANTIMONY-125	51.40	86.80	U	10.80	pCi/L	REG
ZBG020D	7/18/23	BISMUTH-212	594.00	1278.00	U	-24.80	pCi/L	REG
ZBG020D	7/18/23	BISMUTH-214	77.30	137.10	U	-11.50	pCi/L	REG
ZBG020D	7/18/23	CARBON-14	16.40	36.04	U	5.53	pCi/L	REG
ZBG020D	8/28/23	CARBON-14	19.30	40.70	U	-5.41	pCi/L	REG
ZBG020D	7/18/23	CESIUM-137	24.00	51.80	U	-5.87	pCi/L	REG
ZBG020D	7/18/23	COBALT-60	26.20	57.40	U	-8.89	pCi/L	REG
ZBG020D	7/18/23	GROSS ALPHA	1.08	2.52	U	0.98	pCi/L	REG
ZBG020D	7/18/23	IODINE-129	0.65	1.44	UJ	0.30	pCi/L	REG
ZBG020D	8/28/23	IODINE-129	0.54	1.16	U	0.04	pCi/L	REG
ZBG020D	7/18/23	LEAD-212	30.40	66.00	U	6.60	pCi/L	REG
ZBG020D	7/18/23	LEAD-214	21.90	57.30	J	32.60	pCi/L	REG

Table 3. Laboratory Results for Saltstone Wells (1Q23 & 3Q23)

WELL	DATE	ANALYTE	MDL	PQL	QUALIFIER	RESULT	UNITS	SAMPLE TYPE
ZBG020D	7/18/23	MANGANESE	1.00	10.00	J	6.98	ug/L	REG
ZBG020D	7/18/23	MERCURY	0.02	0.20	U	0.20	ug/L	REG
ZBG020D	7/18/23	NICKEL-59	2.81	6.05	U	-0.57	pCi/L	REG
ZBG020D	7/18/23	NICKEL-63	3.37	7.17	U	-0.52	pCi/L	REG
ZBG020D	7/18/23	NIOBIUM-94	10.60	27.02	U	4.06	pCi/L	REG
ZBG020D	7/18/23	NITRATE-NITRITE AS NITROGEN	0.02	0.05		1.87	mg/L	REG
ZBG020D	7/18/23	NONVOLATILE BETA	0.82	3.52		15.80	pCi/L	REG
ZBG020D	7/18/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG
ZBG020D	8/28/23	PHENOLS	0.01	0.02	U	0.02	mg/L	REG
ZBG020D	7/18/23	PLUTONIUM-241	4.52	9.78	U	2.13	pCi/L	REG
ZBG020D	7/18/23	POTASSIUM-40	234.00	558.00	U	-22.40	pCi/L	REG
ZBG020D	7/18/23	RUTHENIUM-106	309.00	669.00	U	64.20	pCi/L	REG
ZBG020D	7/18/23	STRONTIUM-90	0.34	0.72	U	0.07	pCi/L	REG
ZBG020D	7/18/23	TECHNETIUM-99	1.69	5.91		36.00	pCi/L	REG
ZBG020D	7/18/23	THALLIUM-208	18.30	29.82	U	2.24	pCi/L	REG
ZBG020D	7/18/23	TRITIUM	0.47	1.15		1.16	pCi/mL	REG

Table 3 Notes:

FD	Field Duplicate Sample
LD	Laboratory Duplicate Quality Control (QC) Analysis
MDL	Method Detection Limit
µg/L	micrograms per liter
mg/L	milligrams per liter
pCi/L	picocuries per liter
pCi/mL	picocuries per milliliter
PQL	Practical Quantitation Limit
QUALIFIER	USEPA Functional Guideline Codes applied by labs.
REG	Regular Sample; Regular Laboratory Analysis of Sample
RERUN	Requested Reanalysis of Original Sample
RS	Requested Resample

USEPA Functional Guideline Codes

J	The detected analyte was positively identified but the result is approximate.
NJ	The detected analyte was only tentatively identified, and the result is approximate. All usable TIC results receive this code.
U	The analyte was analyzed for, but not detected. The sample detection and quantitation limits (MDL & PQL) are valid unless blank contamination is indicated.
UJ	The analyte was analyzed for, but not detected. The MDL & PQL are approximate and may be inaccurate or imprecise.
R	The sample result is rejected as unusable due to serious deficiencies in meeting quality control criteria. The analyte may be present or absent.

Table 4. Field Measurements for Saltstone Wells (2023)

Table 4. Field Measurements for Saltstone Wells (1Q23 & 3Q23)				
WELL	DATE	ANALYTE	RESULT	UNITS
ZBG 1	3/15/23	AIR TEMPERATURE	-2.0	degC
ZBG 1	3/15/23	FLOW RATE	1.0	gal/min
ZBG 1	3/15/23	pH	5.2	pH
ZBG 1	3/15/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0.0	mg/L
ZBG 1	3/15/23	SPECIFIC CONDUCTANCE	28.0	µS/cm
ZBG 1	3/15/23	TOTAL ALKALINITY (AS CaCO3)	0.0	mg/L
ZBG 1	3/15/23	TURBIDITY	7.5	NTU
ZBG 1	3/15/23	WATER TEMPERATURE	21.6	degC
ZBG 3	3/16/23	AIR TEMPERATURE	4.0	degC
ZBG 3	3/29/23	AIR TEMPERATURE	14.0	degC
ZBG 3	3/16/23	FLOW RATE	0.2	gal/min
ZBG 3	3/29/23	FLOW RATE	0.2	gal/min
ZBG 3	3/16/23	pH	4.6	pH
ZBG 3	3/29/23	pH	5.3	pH
ZBG 3	3/29/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0.0	mg/L
ZBG 3	3/16/23	SPECIFIC CONDUCTANCE	32.0	µS/cm
ZBG 3	3/29/23	SPECIFIC CONDUCTANCE	29.0	µS/cm
ZBG 3	3/29/23	TOTAL ALKALINITY (AS CaCO3)	6.0	mg/L
ZBG 3	3/16/23	TURBIDITY	2.1	NTU
ZBG 3	3/29/23	TURBIDITY	2.5	NTU
ZBG 3	3/16/23	WATER TEMPERATURE	20.1	degC
ZBG 3	3/29/23	WATER TEMPERATURE	20.6	degC
ZBG 4	3/16/23	AIR TEMPERATURE	-12.0	degC
ZBG 4	3/16/23	FLOW RATE	0.2	gal/min
ZBG 4	3/16/23	pH	5.3	pH
ZBG 4	3/16/23	SPECIFIC CONDUCTANCE	27.0	µS/cm
ZBG 4	3/16/23	TOTAL ALKALINITY (AS CaCO3)	0.0	mg/L
ZBG 4	3/16/23	TURBIDITY	10.0	NTU
ZBG 4	3/16/23	WATER TEMPERATURE	19.9	degC
ZBG 5	3/20/23	AIR TEMPERATURE	3.8	degC
ZBG 5	3/20/23	FLOW RATE	0.2	gal/min
ZBG 5	3/20/23	pH	6.5	pH
ZBG 5	3/20/23	SPECIFIC CONDUCTANCE	55.0	µS/cm
ZBG 5	3/20/23	TOTAL ALKALINITY (AS CaCO3)	21.0	mg/L
ZBG 5	3/20/23	TURBIDITY	5.9	NTU
ZBG 5	3/20/23	WATER TEMPERATURE	20.3	degC
ZBG 6	3/15/23	AIR TEMPERATURE	5.0	degC
ZBG 6	3/15/23	FLOW RATE	0.2	gal/min
ZBG 6	3/15/23	pH	4.8	pH
ZBG 6	3/15/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0.0	mg/L
ZBG 6	3/15/23	SPECIFIC CONDUCTANCE	35.0	µS/cm
ZBG 6	3/15/23	TOTAL ALKALINITY (AS CaCO3)	0.0	mg/L
ZBG 6	3/15/23	TURBIDITY	1.0	NTU
ZBG 6	3/15/23	WATER TEMPERATURE	20.4	degC
ZBG 7	3/16/23	AIR TEMPERATURE	6.0	degC

Table 4. Field Measurements for Saltstone Wells (1Q23 & 3Q23)				
WELL	DATE	ANALYTE	RESULT	UNITS
ZBG 7	3/16/23	FLOW RATE	0.2	gal/min
ZBG 7	3/16/23	pH	5.5	pH
ZBG 7	3/16/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0.0	mg/L
ZBG 7	3/16/23	SPECIFIC CONDUCTANCE	23.0	µS/cm
ZBG 7	3/16/23	TOTAL ALKALINITY (AS CaCO3)	2.0	mg/L
ZBG 7	3/16/23	TURBIDITY	0.7	NTU
ZBG 7	3/16/23	WATER TEMPERATURE	20.2	degC
ZBG 8	3/16/23	AIR TEMPERATURE	12.0	degC
ZBG 8	3/16/23	FLOW RATE	0.2	gal/min
ZBG 8	3/16/23	pH	5.0	pH
ZBG 8	3/16/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0.0	mg/L
ZBG 8	3/16/23	SPECIFIC CONDUCTANCE	21.0	µS/cm
ZBG 8	3/16/23	TOTAL ALKALINITY (AS CaCO3)	0.0	mg/L
ZBG 8	3/16/23	TURBIDITY	1.3	NTU
ZBG 8	3/16/23	WATER TEMPERATURE	19.8	degC
ZBG002C	3/16/23	AIR TEMPERATURE	9.0	degC
ZBG002C	3/16/23	FLOW RATE	0.2	gal/min
ZBG002C	3/16/23	pH	5.8	pH
ZBG002C	3/16/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0.0	mg/L
ZBG002C	3/16/23	SPECIFIC CONDUCTANCE	44.0	µS/cm
ZBG002C	3/16/23	TOTAL ALKALINITY (AS CaCO3)	5.0	mg/L
ZBG002C	3/16/23	TURBIDITY	0.6	NTU
ZBG002C	3/16/23	WATER TEMPERATURE	20.1	degC
ZBG002D	3/16/23	AIR TEMPERATURE	13.0	degC
ZBG002D	3/16/23	FLOW RATE	0.2	gal/min
ZBG002D	3/16/23	pH	5.4	pH
ZBG002D	3/16/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0.0	mg/L
ZBG002D	3/16/23	SPECIFIC CONDUCTANCE	103.0	µS/cm
ZBG002D	3/16/23	TOTAL ALKALINITY (AS CaCO3)	1.0	mg/L
ZBG002D	3/16/23	TURBIDITY	1.5	NTU
ZBG002D	3/16/23	WATER TEMPERATURE	19.5	degC
ZBG009D	3/15/23	AIR TEMPERATURE	2.0	degC
ZBG009D	3/15/23	FLOW RATE	0.2	gal/min
ZBG009D	3/15/23	pH	5.5	pH
ZBG009D	3/15/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0.0	mg/L
ZBG009D	3/15/23	SPECIFIC CONDUCTANCE	31.0	µS/cm
ZBG009D	3/15/23	TOTAL ALKALINITY (AS CaCO3)	2.0	mg/L
ZBG009D	3/15/23	TURBIDITY	9.5	NTU
ZBG009D	3/15/23	WATER TEMPERATURE	17.7	degC
ZBG010D	3/15/23	AIR TEMPERATURE	4.0	degC
ZBG010D	3/15/23	FLOW RATE	0.2	gal/min
ZBG010D	3/15/23	pH	5.2	pH
ZBG010D	3/15/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0.0	mg/L
ZBG010D	3/15/23	SPECIFIC CONDUCTANCE	21.0	µS/cm
ZBG010D	3/15/23	TOTAL ALKALINITY (AS CaCO3)	1.0	mg/L
ZBG010D	3/15/23	TURBIDITY	7.1	NTU

Table 4. Field Measurements for Saltstone Wells (1Q23 & 3Q23)				
WELL	DATE	ANALYTE	RESULT	UNITS
ZBG010D	3/15/23	WATER TEMPERATURE	19.3	degC
ZBG011D	3/15/23	AIR TEMPERATURE	4.0	degC
ZBG011D	3/15/23	FLOW RATE	0.2	gal/min
ZBG011D	3/15/23	pH	5.7	pH
ZBG011D	3/15/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0.0	mg/L
ZBG011D	3/15/23	SPECIFIC CONDUCTANCE	33.0	µS/cm
ZBG011D	3/15/23	TOTAL ALKALINITY (AS CaCO3)	4.0	mg/L
ZBG011D	3/15/23	TURBIDITY	4.0	NTU
ZBG011D	3/15/23	WATER TEMPERATURE	19.3	degC
ZBG012D	3/15/23	AIR TEMPERATURE	-1.0	degC
ZBG012D	3/15/23	FLOW RATE	0.2	gal/min
ZBG012D	3/15/23	pH	6.8	pH
ZBG012D	3/15/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0.0	mg/L
ZBG012D	3/15/23	SPECIFIC CONDUCTANCE	184.0	µS/cm
ZBG012D	3/15/23	TOTAL ALKALINITY (AS CaCO3)	42.0	mg/L
ZBG012D	3/15/23	TURBIDITY	2.0	NTU
ZBG012D	3/15/23	WATER TEMPERATURE	18.1	degC
ZBG013D	3/15/23	AIR TEMPERATURE	1.0	degC
ZBG013D	3/15/23	FLOW RATE	0.2	gal/min
ZBG013D	3/15/23	pH	7.6	pH
ZBG013D	3/15/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0.0	mg/L
ZBG013D	3/15/23	SPECIFIC CONDUCTANCE	152.0	µS/cm
ZBG013D	3/15/23	TOTAL ALKALINITY (AS CaCO3)	53.0	mg/L
ZBG013D	3/15/23	TURBIDITY	3.2	NTU
ZBG013D	3/15/23	WATER TEMPERATURE	16.8	degC
ZBG014D	3/20/23	AIR TEMPERATURE	4.0	degC
ZBG014D	3/20/23	FLOW RATE	0.2	gal/min
ZBG014D	3/20/23	pH	6.4	pH
ZBG014D	3/20/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0.0	mg/L
ZBG014D	3/20/23	SPECIFIC CONDUCTANCE	167.0	µS/cm
ZBG014D	3/20/23	TOTAL ALKALINITY (AS CaCO3)	67.0	mg/L
ZBG014D	3/20/23	TURBIDITY	0.5	NTU
ZBG014D	3/20/23	WATER TEMPERATURE	19.2	degC
ZBG015D	3/16/23	AIR TEMPERATURE	12.0	degC
ZBG015D	3/16/23	FLOW RATE	0.2	gal/min
ZBG015D	3/16/23	pH	5.0	pH
ZBG015D	3/16/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0.0	mg/L
ZBG015D	3/16/23	SPECIFIC CONDUCTANCE	21.0	µS/cm
ZBG015D	3/16/23	TOTAL ALKALINITY (AS CaCO3)	1.0	mg/L
ZBG015D	3/16/23	TURBIDITY	0.5	NTU
ZBG015D	3/16/23	WATER TEMPERATURE	19.4	degC
ZBG016C	3/16/23	AIR TEMPERATURE	10.0	degC
ZBG016C	3/16/23	FLOW RATE	0.2	gal/min
ZBG016C	3/16/23	pH	5.1	pH
ZBG016C	3/16/23	SPECIFIC CONDUCTANCE	25.0	µS/cm
ZBG016C	3/16/23	TOTAL ALKALINITY (AS CaCO3)	2.0	mg/L

Table 4. Field Measurements for Saltstone Wells (1Q23 & 3Q23)				
WELL	DATE	ANALYTE	RESULT	UNITS
ZBG016C	3/16/23	TURBIDITY	0.6	NTU
ZBG016C	3/16/23	WATER TEMPERATURE	19.2	degC
ZBG017D	3/16/23	AIR TEMPERATURE	0.0	degC
ZBG017D	3/16/23	FLOW RATE	0.2	gal/min
ZBG017D	3/16/23	pH	5.6	pH
ZBG017D	3/16/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0.0	mg/L
ZBG017D	3/16/23	SPECIFIC CONDUCTANCE	18.0	µS/cm
ZBG017D	3/16/23	TOTAL ALKALINITY (AS CaCO3)	2.0	mg/L
ZBG017D	3/16/23	TURBIDITY	1.4	NTU
ZBG017D	3/16/23	WATER TEMPERATURE	18.5	degC
ZBG018D	3/16/23	AIR TEMPERATURE	6.0	degC
ZBG018D	3/16/23	FLOW RATE	0.2	gal/min
ZBG018D	3/16/23	pH	4.8	pH
ZBG018D	3/16/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0.0	mg/L
ZBG018D	3/16/23	SPECIFIC CONDUCTANCE	21.0	µS/cm
ZBG018D	3/16/23	TOTAL ALKALINITY (AS CaCO3)	0.0	mg/L
ZBG018D	3/16/23	TURBIDITY	0.6	NTU
ZBG018D	3/16/23	WATER TEMPERATURE	17.9	degC
ZBG019D	3/20/23	AIR TEMPERATURE	11.0	degC
ZBG019D	3/20/23	FLOW RATE	0.2	gal/min
ZBG019D	3/20/23	pH	5.0	pH
ZBG019D	3/20/23	SPECIFIC CONDUCTANCE	30.0	µS/cm
ZBG019D	3/20/23	TOTAL ALKALINITY (AS CaCO3)	0.0	mg/L
ZBG019D	3/20/23	TURBIDITY	5.1	NTU
ZBG019D	3/20/23	WATER TEMPERATURE	19.6	degC
ZBG020D	3/16/23	AIR TEMPERATURE	14.0	degC
ZBG020D	3/16/23	Dissolved Oxygen	0.0	mg/L
ZBG020D	3/16/23	FLOW RATE	0.1	gal/min
ZBG020D	3/16/23	pH	5.0	pH
ZBG020D	3/16/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0.0	mg/L
ZBG020D	3/16/23	Redox Potential	0.0	mV
ZBG020D	3/16/23	SPECIFIC CONDUCTANCE	30.0	µS/cm
ZBG020D	3/16/23	TOTAL ALKALINITY (AS CaCO3)	0.0	mg/L
ZBG020D	3/16/23	TURBIDITY	1.0	NTU
ZBG020D	3/16/23	WATER TEMPERATURE	20.5	degC
ZBG 1	7/18/23	AIR TEMPERATURE	30	degC
ZBG 1	7/18/23	FLOW RATE	1	gal/min
ZBG 1	7/18/23	pH	5.3	SU
ZBG 1	7/18/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0	mg/L
ZBG 1	7/18/23	SPECIFIC CONDUCTANCE	26	uS/cm
ZBG 1	7/18/23	TOTAL ALKALINITY (AS CaCO3)	2	mg/L
ZBG 1	7/18/23	TURBIDITY	0.5	NTU
ZBG 1	7/18/23	WATER TEMPERATURE	21.7	degC
ZBG 3	7/18/23	AIR TEMPERATURE	31	degC
ZBG 3	7/18/23	FLOW RATE	0.2	gal/min
ZBG 3	7/18/23	pH	4.9	SU

Table 4. Field Measurements for Saltstone Wells (1Q23 & 3Q23)				
WELL	DATE	ANALYTE	RESULT	UNITS
ZBG 3	7/18/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0	mg/L
ZBG 3	7/18/23	SPECIFIC CONDUCTANCE	34	uS/cm
ZBG 3	7/18/23	TOTAL ALKALINITY (AS CaCO3)	0	mg/L
ZBG 3	7/18/23	TURBIDITY	4.4	NTU
ZBG 3	7/18/23	WATER TEMPERATURE	21.7	degC
ZBG 4	7/18/23	AIR TEMPERATURE	29	degC
ZBG 4	7/18/23	FLOW RATE	0.2	gal/min
ZBG 4	7/18/23	pH	5.2	SU
ZBG 4	7/18/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0	mg/L
ZBG 4	7/18/23	SPECIFIC CONDUCTANCE	26	uS/cm
ZBG 4	7/18/23	TOTAL ALKALINITY (AS CaCO3)	3	mg/L
ZBG 4	7/18/23	TURBIDITY	2.6	NTU
ZBG 4	7/18/23	WATER TEMPERATURE	21.6	degC
ZBG 5	7/18/23	AIR TEMPERATURE	28	degC
ZBG 5	8/28/23	AIR TEMPERATURE	22	degC
ZBG 5	7/18/23	FLOW RATE	0.2	gal/min
ZBG 5	8/28/23	FLOW RATE	0.2	gal/min
ZBG 5	7/18/23	pH	6.2	SU
ZBG 5	8/28/23	pH	6.8	SU
ZBG 5	7/18/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0	mg/L
ZBG 5	8/28/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0	mg/L
ZBG 5	7/18/23	SPECIFIC CONDUCTANCE	48	uS/cm
ZBG 5	8/28/23	SPECIFIC CONDUCTANCE	58	uS/cm
ZBG 5	7/18/23	TOTAL ALKALINITY (AS CaCO3)	12	mg/L
ZBG 5	8/28/23	TOTAL ALKALINITY (AS CaCO3)	9	mg/L
ZBG 5	7/18/23	TURBIDITY	19.1	NTU
ZBG 5	8/28/23	TURBIDITY	8.4	NTU
ZBG 5	7/18/23	WATER TEMPERATURE	21.2	degC
ZBG 5	8/28/23	WATER TEMPERATURE	21.6	degC
ZBG 6	7/18/23	AIR TEMPERATURE	24	degC
ZBG 6	7/18/23	FLOW RATE	0.2	gal/min
ZBG 6	7/18/23	pH	4.4	SU
ZBG 6	7/18/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0	mg/L
ZBG 6	7/18/23	SPECIFIC CONDUCTANCE	27	uS/cm
ZBG 6	7/18/23	TOTAL ALKALINITY (AS CaCO3)	0	mg/L
ZBG 6	7/18/23	TURBIDITY	0.6	NTU
ZBG 6	7/18/23	WATER TEMPERATURE	21	degC
ZBG 7	7/18/23	AIR TEMPERATURE	26	degC
ZBG 7	7/18/23	FLOW RATE	0.2	gal/min
ZBG 7	7/18/23	pH	5.4	SU
ZBG 7	7/18/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0	mg/L
ZBG 7	7/18/23	SPECIFIC CONDUCTANCE	21	uS/cm
ZBG 7	7/18/23	TOTAL ALKALINITY (AS CaCO3)	4	mg/L
ZBG 7	7/18/23	TURBIDITY	0.8	NTU
ZBG 7	7/18/23	WATER TEMPERATURE	20.9	degC
ZBG 8	7/18/23	AIR TEMPERATURE	25	degC

Table 4. Field Measurements for Saltstone Wells (1Q23 & 3Q23)				
WELL	DATE	ANALYTE	RESULT	UNITS
ZBG 8	8/28/23	AIR TEMPERATURE	25	degC
ZBG 8	7/18/23	FLOW RATE	0.2	gal/min
ZBG 8	8/28/23	FLOW RATE	0.2	gal/min
ZBG 8	7/18/23	pH	4.9	SU
ZBG 8	8/28/23	pH	4.9	SU
ZBG 8	7/18/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0	mg/L
ZBG 8	8/28/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0	mg/L
ZBG 8	7/18/23	SPECIFIC CONDUCTANCE	20	uS/cm
ZBG 8	8/28/23	SPECIFIC CONDUCTANCE	29	uS/cm
ZBG 8	7/18/23	TOTAL ALKALINITY (AS CaCO3)	0	mg/L
ZBG 8	8/28/23	TOTAL ALKALINITY (AS CaCO3)	0	mg/L
ZBG 8	7/18/23	TURBIDITY	0.4	NTU
ZBG 8	8/28/23	TURBIDITY	0.4	NTU
ZBG 8	7/18/23	WATER TEMPERATURE	20.5	degC
ZBG 8	8/28/23	WATER TEMPERATURE	22.6	degC
ZBG002C	7/18/23	AIR TEMPERATURE	24	degC
ZBG002C	8/28/23	AIR TEMPERATURE	27	degC
ZBG002C	8/28/23	Dissolved Oxygen	0	mg/L
ZBG002C	7/18/23	FLOW RATE	0.2	gal/min
ZBG002C	8/28/23	FLOW RATE	0.2	gal/min
ZBG002C	7/18/23	pH	5.8	SU
ZBG002C	8/28/23	pH	5	SU
ZBG002C	7/18/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0	mg/L
ZBG002C	8/28/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0	mg/L
ZBG002C	8/28/23	Redox Potential	0	mV
ZBG002C	7/18/23	SPECIFIC CONDUCTANCE	47	uS/cm
ZBG002C	8/28/23	SPECIFIC CONDUCTANCE	105	uS/cm
ZBG002C	7/18/23	TOTAL ALKALINITY (AS CaCO3)	6	mg/L
ZBG002C	8/28/23	TOTAL ALKALINITY (AS CaCO3)	0	mg/L
ZBG002C	7/18/23	TURBIDITY	0.8	NTU
ZBG002C	8/28/23	TURBIDITY	0.7	NTU
ZBG002C	7/18/23	WATER TEMPERATURE	21	degC
ZBG002C	8/28/23	WATER TEMPERATURE	21.9	degC
ZBG002D	7/18/23	AIR TEMPERATURE	28	degC
ZBG002D	8/28/23	AIR TEMPERATURE	24	degC
ZBG002D	7/18/23	FLOW RATE	0.2	gal/min
ZBG002D	8/28/23	FLOW RATE	0.2	gal/min
ZBG002D	7/18/23	pH	5.3	SU
ZBG002D	8/28/23	pH	5.6	SU
ZBG002D	7/18/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0	mg/L
ZBG002D	8/28/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0	mg/L
ZBG002D	7/18/23	SPECIFIC CONDUCTANCE	39	uS/cm
ZBG002D	8/28/23	SPECIFIC CONDUCTANCE	38	uS/cm
ZBG002D	7/18/23	TOTAL ALKALINITY (AS CaCO3)	2	mg/L
ZBG002D	8/28/23	TOTAL ALKALINITY (AS CaCO3)	4	mg/L
ZBG002D	7/18/23	TURBIDITY	5.2	NTU

Table 4. Field Measurements for Saltstone Wells (1Q23 & 3Q23)				
WELL	DATE	ANALYTE	RESULT	UNITS
ZBG002D	8/28/23	TURBIDITY	3.9	NTU
ZBG002D	7/18/23	WATER TEMPERATURE	21.1	degC
ZBG002D	8/28/23	WATER TEMPERATURE	21.7	degC
ZBG009D	7/18/23	AIR TEMPERATURE	27	degC
ZBG009D	8/28/23	AIR TEMPERATURE	27	degC
ZBG009D	7/18/23	FLOW RATE	0.2	gal/min
ZBG009D	8/28/23	FLOW RATE	0.2	gal/min
ZBG009D	7/18/23	pH	5.2	SU
ZBG009D	8/28/23	pH	5.7	SU
ZBG009D	7/18/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0	mg/L
ZBG009D	8/28/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0	mg/L
ZBG009D	7/18/23	SPECIFIC CONDUCTANCE	29	uS/cm
ZBG009D	8/28/23	SPECIFIC CONDUCTANCE	29	uS/cm
ZBG009D	7/18/23	TOTAL ALKALINITY (AS CaCO3)	1	mg/L
ZBG009D	8/28/23	TOTAL ALKALINITY (AS CaCO3)	4	mg/L
ZBG009D	7/18/23	TURBIDITY	2.2	NTU
ZBG009D	8/28/23	TURBIDITY	0.8	NTU
ZBG009D	7/18/23	WATER TEMPERATURE	20.3	degC
ZBG009D	8/28/23	WATER TEMPERATURE	20.7	degC
ZBG010D	7/18/23	AIR TEMPERATURE	28	degC
ZBG010D	8/28/23	AIR TEMPERATURE	25	degC
ZBG010D	7/18/23	FLOW RATE	0.2	gal/min
ZBG010D	8/28/23	FLOW RATE	0.2	gal/min
ZBG010D	7/18/23	pH	5.3	SU
ZBG010D	8/28/23	pH	5.4	SU
ZBG010D	7/18/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0	mg/L
ZBG010D	8/28/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0	mg/L
ZBG010D	7/18/23	SPECIFIC CONDUCTANCE	17	uS/cm
ZBG010D	8/28/23	SPECIFIC CONDUCTANCE	19	uS/cm
ZBG010D	7/18/23	TOTAL ALKALINITY (AS CaCO3)	1	mg/L
ZBG010D	8/28/23	TOTAL ALKALINITY (AS CaCO3)	4	mg/L
ZBG010D	7/18/23	TURBIDITY	2	NTU
ZBG010D	8/28/23	TURBIDITY	3.6	NTU
ZBG010D	7/18/23	WATER TEMPERATURE	20.7	degC
ZBG010D	8/28/23	WATER TEMPERATURE	20.7	degC
ZBG011D	7/18/23	AIR TEMPERATURE	28	degC
ZBG011D	8/28/23	AIR TEMPERATURE	25	degC
ZBG011D	7/18/23	FLOW RATE	0.2	gal/min
ZBG011D	8/28/23	FLOW RATE	0.2	gal/min
ZBG011D	7/18/23	pH	6	SU
ZBG011D	8/28/23	pH	5.8	SU
ZBG011D	7/18/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0	mg/L
ZBG011D	8/28/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0	mg/L
ZBG011D	7/18/23	SPECIFIC CONDUCTANCE	32	uS/cm
ZBG011D	8/28/23	SPECIFIC CONDUCTANCE	36	uS/cm
ZBG011D	7/18/23	TOTAL ALKALINITY (AS CaCO3)	4	mg/L

Table 4. Field Measurements for Saltstone Wells (1Q23 & 3Q23)				
WELL	DATE	ANALYTE	RESULT	UNITS
ZBG011D	8/28/23	TOTAL ALKALINITY (AS CaCO ₃)	10	mg/L
ZBG011D	7/18/23	TURBIDITY	5.6	NTU
ZBG011D	8/28/23	TURBIDITY	2.1	NTU
ZBG011D	7/18/23	WATER TEMPERATURE	20.4	degC
ZBG011D	8/28/23	WATER TEMPERATURE	20.6	degC
ZBG012D	7/18/23	AIR TEMPERATURE	31	degC
ZBG012D	8/28/23	AIR TEMPERATURE	24	degC
ZBG012D	7/18/23	FLOW RATE	0.2	gal/min
ZBG012D	8/28/23	FLOW RATE	0.2	gal/min
ZBG012D	7/18/23	pH	7.9	SU
ZBG012D	8/28/23	pH	7.9	SU
ZBG012D	7/18/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO ₃)	0	mg/L
ZBG012D	8/28/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO ₃)	0	mg/L
ZBG012D	7/18/23	SPECIFIC CONDUCTANCE	206	uS/cm
ZBG012D	8/28/23	SPECIFIC CONDUCTANCE	222	uS/cm
ZBG012D	7/18/23	TOTAL ALKALINITY (AS CaCO ₃)	85	mg/L
ZBG012D	8/28/23	TOTAL ALKALINITY (AS CaCO ₃)	97	mg/L
ZBG012D	7/18/23	TURBIDITY	0.3	NTU
ZBG012D	8/28/23	TURBIDITY	0.6	NTU
ZBG012D	7/18/23	WATER TEMPERATURE	20.6	degC
ZBG012D	8/28/23	WATER TEMPERATURE	20.4	degC
ZBG013D	7/18/23	AIR TEMPERATURE	30	degC
ZBG013D	8/28/23	AIR TEMPERATURE	24	degC
ZBG013D	7/18/23	FLOW RATE	0.2	gal/min
ZBG013D	8/28/23	FLOW RATE	0.2	gal/min
ZBG013D	7/18/23	pH	8	SU
ZBG013D	8/28/23	pH	8.4	SU
ZBG013D	7/18/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO ₃)	0	mg/L
ZBG013D	8/28/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO ₃)	0	mg/L
ZBG013D	7/18/23	SPECIFIC CONDUCTANCE	143	uS/cm
ZBG013D	8/28/23	SPECIFIC CONDUCTANCE	150	uS/cm
ZBG013D	7/18/23	TOTAL ALKALINITY (AS CaCO ₃)	59	mg/L
ZBG013D	8/28/23	TOTAL ALKALINITY (AS CaCO ₃)	66	mg/L
ZBG013D	7/18/23	TURBIDITY	0.2	NTU
ZBG013D	8/28/23	TURBIDITY	0.7	NTU
ZBG013D	7/18/23	WATER TEMPERATURE	20	degC
ZBG013D	8/28/23	WATER TEMPERATURE	20.1	degC
ZBG014D	7/18/23	AIR TEMPERATURE	25	degC
ZBG014D	8/28/23	AIR TEMPERATURE	28	degC
ZBG014D	8/28/23	Dissolved Oxygen	0	mg/L
ZBG014D	7/18/23	FLOW RATE	0.2	gal/min
ZBG014D	8/28/23	FLOW RATE	0.2	gal/min
ZBG014D	7/18/23	pH	7.5	SU
ZBG014D	8/28/23	pH	6.9	SU
ZBG014D	7/18/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO ₃)	0	mg/L
ZBG014D	8/28/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO ₃)	0	mg/L

Table 4. Field Measurements for Saltstone Wells (1Q23 & 3Q23)				
WELL	DATE	ANALYTE	RESULT	UNITS
ZBG014D	8/28/23	Redox Potential	0	mV
ZBG014D	7/18/23	SPECIFIC CONDUCTANCE	168	uS/cm
ZBG014D	8/28/23	SPECIFIC CONDUCTANCE	175	uS/cm
ZBG014D	7/18/23	TOTAL ALKALINITY (AS CaCO3)	72	mg/L
ZBG014D	8/28/23	TOTAL ALKALINITY (AS CaCO3)	36	mg/L
ZBG014D	7/18/23	TURBIDITY	0.2	NTU
ZBG014D	8/28/23	TURBIDITY	0.6	NTU
ZBG014D	7/18/23	WATER TEMPERATURE	20	degC
ZBG014D	8/28/23	WATER TEMPERATURE	22.7	degC
ZBG015D	7/20/23	AIR TEMPERATURE	23	degC
ZBG015D	8/28/23	AIR TEMPERATURE	28	degC
ZBG015D	8/28/23	Dissolved Oxygen	0	mg/L
ZBG015D	7/20/23	FLOW RATE	0.2	gal/min
ZBG015D	8/28/23	FLOW RATE	0.2	gal/min
ZBG015D	7/20/23	pH	5.6	SU
ZBG015D	8/28/23	pH	4.9	SU
ZBG015D	7/20/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0	mg/L
ZBG015D	8/28/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0	mg/L
ZBG015D	8/28/23	Redox Potential	0	mV
ZBG015D	7/20/23	SPECIFIC CONDUCTANCE	39	uS/cm
ZBG015D	8/28/23	SPECIFIC CONDUCTANCE	137	uS/cm
ZBG015D	7/20/23	TOTAL ALKALINITY (AS CaCO3)	6	mg/L
ZBG015D	8/28/23	TOTAL ALKALINITY (AS CaCO3)	0	mg/L
ZBG015D	7/20/23	TURBIDITY	0.4	NTU
ZBG015D	8/28/23	TURBIDITY	0.4	NTU
ZBG015D	7/20/23	WATER TEMPERATURE	19.4	degC
ZBG015D	8/28/23	WATER TEMPERATURE	22.3	degC
ZBG016C	7/20/23	AIR TEMPERATURE	27	degC
ZBG016C	7/20/23	FLOW RATE	0.2	gal/min
ZBG016C	7/20/23	pH	5.6	SU
ZBG016C	7/20/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0	mg/L
ZBG016C	7/20/23	SPECIFIC CONDUCTANCE	30	uS/cm
ZBG016C	7/20/23	TOTAL ALKALINITY (AS CaCO3)	8	mg/L
ZBG016C	7/20/23	TURBIDITY	0.5	NTU
ZBG016C	7/20/23	WATER TEMPERATURE	18.8	degC
ZBG017D	7/20/23	AIR TEMPERATURE	30	degC
ZBG017D	8/28/23	AIR TEMPERATURE	27	degC
ZBG017D	8/28/23	Dissolved Oxygen	0	mg/L
ZBG017D	7/20/23	FLOW RATE	0.2	gal/min
ZBG017D	8/28/23	FLOW RATE	0.2	gal/min
ZBG017D	7/20/23	pH	5.6	SU
ZBG017D	8/28/23	pH	4	SU
ZBG017D	7/20/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0	mg/L
ZBG017D	8/28/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0	mg/L
ZBG017D	8/28/23	Redox Potential	0	mV
ZBG017D	7/20/23	SPECIFIC CONDUCTANCE	39	uS/cm

Table 4. Field Measurements for Saltstone Wells (1Q23 & 3Q23)				
WELL	DATE	ANALYTE	RESULT	UNITS
ZBG017D	8/28/23	SPECIFIC CONDUCTANCE	39.2	uS/cm
ZBG017D	7/20/23	TOTAL ALKALINITY (AS CaCO3)	6	mg/L
ZBG017D	8/28/23	TOTAL ALKALINITY (AS CaCO3)	0	mg/L
ZBG017D	7/20/23	TURBIDITY	1.3	NTU
ZBG017D	8/28/23	TURBIDITY	1.1	NTU
ZBG017D	7/20/23	WATER TEMPERATURE	20.8	degC
ZBG017D	8/28/23	WATER TEMPERATURE	23.4	degC
ZBG018D	7/20/23	AIR TEMPERATURE	33	degC
ZBG018D	8/28/23	AIR TEMPERATURE	28	degC
ZBG018D	8/28/23	Dissolved Oxygen	0	mg/L
ZBG018D	7/20/23	FLOW RATE	0.2	gal/min
ZBG018D	8/28/23	FLOW RATE	0.2	gal/min
ZBG018D	7/20/23	pH	5.5	SU
ZBG018D	8/28/23	pH	3.9	SU
ZBG018D	7/20/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0	mg/L
ZBG018D	8/28/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0	mg/L
ZBG018D	8/28/23	Redox Potential	0	mV
ZBG018D	7/20/23	SPECIFIC CONDUCTANCE	23	uS/cm
ZBG018D	8/28/23	SPECIFIC CONDUCTANCE	23.9	uS/cm
ZBG018D	7/20/23	TOTAL ALKALINITY (AS CaCO3)	6	mg/L
ZBG018D	8/28/23	TOTAL ALKALINITY (AS CaCO3)	0	mg/L
ZBG018D	7/20/23	TURBIDITY	1.2	NTU
ZBG018D	8/28/23	TURBIDITY	1	NTU
ZBG018D	7/20/23	WATER TEMPERATURE	20.7	degC
ZBG018D	8/28/23	WATER TEMPERATURE	22.3	degC
ZBG019D	7/18/23	AIR TEMPERATURE	31	degC
ZBG019D	8/28/23	AIR TEMPERATURE	27	degC
ZBG019D	8/28/23	Dissolved Oxygen	0	mg/L
ZBG019D	7/18/23	FLOW RATE	0.2	gal/min
ZBG019D	8/28/23	FLOW RATE	0.2	gal/min
ZBG019D	7/18/23	pH	5.1	SU
ZBG019D	8/28/23	pH	3.8	SU
ZBG019D	7/18/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0	mg/L
ZBG019D	8/28/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO3)	0	mg/L
ZBG019D	8/28/23	Redox Potential	0	mV
ZBG019D	7/18/23	SPECIFIC CONDUCTANCE	31	uS/cm
ZBG019D	8/28/23	SPECIFIC CONDUCTANCE	36.4	uS/cm
ZBG019D	7/18/23	TOTAL ALKALINITY (AS CaCO3)	2	mg/L
ZBG019D	8/28/23	TOTAL ALKALINITY (AS CaCO3)	0	mg/L
ZBG019D	7/18/23	TURBIDITY	8.6	NTU
ZBG019D	8/28/23	TURBIDITY	4.5	NTU
ZBG019D	7/18/23	WATER TEMPERATURE	21.1	degC
ZBG019D	8/28/23	WATER TEMPERATURE	22.4	degC
ZBG020D	7/18/23	AIR TEMPERATURE	31	degC
ZBG020D	8/28/23	AIR TEMPERATURE	25	degC
ZBG020D	7/18/23	FLOW RATE	0.2	gal/min

Table 4. Field Measurements for Saltstone Wells (1Q23 & 3Q23)				
WELL	DATE	ANALYTE	RESULT	UNITS
ZBG020D	8/28/23	FLOW RATE	0.2	gal/min
ZBG020D	7/18/23	pH	4.8	SU
ZBG020D	8/28/23	pH	4	SU
ZBG020D	7/18/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO ₃)	0	mg/L
ZBG020D	8/28/23	PHENOLPHTHALEIN ALKALINITY (AS CaCO ₃)	0	mg/L
ZBG020D	7/18/23	SPECIFIC CONDUCTANCE	29	uS/cm
ZBG020D	8/28/23	SPECIFIC CONDUCTANCE	29	uS/cm
ZBG020D	7/18/23	TOTAL ALKALINITY (AS CaCO ₃)	0	mg/L
ZBG020D	8/28/23	TOTAL ALKALINITY (AS CaCO ₃)	0	mg/L
ZBG020D	7/18/23	TURBIDITY	0.6	NTU
ZBG020D	8/28/23	TURBIDITY	0.8	NTU
ZBG020D	7/18/23	WATER TEMPERATURE	221.1	degC
ZBG020D	8/28/23	WATER TEMPERATURE	21.5	degC

Table 4 Notes:

degC = Degrees Celsius

gal = gallons

gal/min = gallons per minute

mV = millivolts

μS/cm = microsiemens per centimeter

mg/L = milligrams per liter

NTU = Nephelometric Turbidity Units

pH = negative log of the hydrogen ion concentration
 (-log[H⁺])

Table 5. Water Elevations for Saltstone Wells (1Q23 & 3Q23)

Well	REFERENCE ELEVATION (ft-amsl)	DATE	DRY	Water Depth (ft-TOC)	WATER ELEVATION (ft-amsl)	AQUIFER	Screen Zone Elevation (ft-amsl)
ZBG 1	291.40	3/15/23	N	58.41	232.99	UAZ-UTRA	220 - 240.1
ZBG 3	272.63	3/15/23	N	52.74	219.89	LAZ-UTRA	204 - 214
ZBG 4	274.11	3/15/23	N	54.30	219.81	LAZ-UTRA	205.44 - 215.44
ZBG 5	272.33	3/15/23	N	53.34	218.99	LAZ-UTRA	203.77 - 213.77
ZBG 6	288.03	3/15/23	N	55.20	232.83	UAZ-UTRA	211 - 226
ZBG 7	287.35	3/15/23	N	54.18	233.17	UAZ-UTRA	210.24 - 225.24
ZBG 8	288.42	3/15/23	N	55.08	233.34	UAZ-UTRA	213.02 - 228.02
ZBG002C	278.56	3/15/23	N	60.10	218.46	LAZ-UTRA	195.83 - 205.83
ZBG002D	278.52	3/15/23	N	57.42	221.10	UAZ-UTRA	215.13 - 225.13
ZBG009D	275.58	3/15/23	N	54.16	221.42	LAZ-UTRA	197.7 - 212.7
ZBG010D	277.32	3/15/23	N	59.00	218.32	LAZ-UTRA	199.5 - 214.5
ZBG011D	280.71	3/15/23	N	62.11	218.60	LAZ-UTRA	202.8 - 217.8
ZBG012D	261.97	3/15/23	N	42.99	218.98	LAZ-UTRA	178.7 - 193.7
ZBG013D	262.48	3/15/23	N	45.68	216.80	LAZ-UTRA	179.7 - 194.7
ZBG014D	267.58	3/15/23	N	48.93	218.65	LAZ-UTRA	175.05 - 190.05
ZBG015D	297.97	3/15/23	N	64.55	233.42	UAZ-UTRA	214.31 - 234.31
ZBG016C	255.53	3/15/23	N	43.80	211.73	LAZ-UTRA	197.69 - 207.69
ZBG016D	256.10	3/15/23	Y	DRY	DRY	UAZ-UTRA	226.25 - 236.25
ZBG017D	277.79	3/15/23	N	58.50	219.29	LAZ-UTRA	213 - 223
ZBG018D	273.62	3/15/23	N	54.30	219.32	LAZ-UTRA	205.12 - 215.12
ZBG019D	285.47	3/15/23	N	65.55	219.92	LAZ-UTRA	208.4 - 218.4
ZBG020D	271.85	3/15/23	N	45.63	226.22	UAZ-UTRA	216 - 226
ZBG 1	291.40	7/17/23	N	59.19	232.21	UAZ-UTRA	220 - 240.1
ZBG 3	272.63	7/17/23	N	51.02	221.61	LAZ-UTRA	204 - 214
ZBG 4	274.11	7/17/23	N	52.71	221.40	LAZ-UTRA	205.44 - 215.44
ZBG 5	272.33	7/17/23	N	51.79	220.54	LAZ-UTRA	203.77 - 213.77
ZBG 6	288.03	7/17/23	N	54.49	233.54	UAZ-UTRA	211 - 226
ZBG 7	287.35	7/17/23	N	53.57	233.78	UAZ-UTRA	210.24 - 225.24
ZBG 8	288.42	7/17/23	N	54.21	234.21	UAZ-UTRA	213.02 - 228.02
ZBG002C	278.56	7/18/23	N	58.17	220.39	LAZ-UTRA	195.83 - 205.83
ZBG002D	278.52	7/18/23	N	54.81	223.71	UAZ-UTRA	215.13 - 225.13
ZBG009D	275.58	7/17/23	N	55.80	219.78	LAZ-UTRA	197.7 - 212.7
ZBG010D	277.32	7/17/23	N	57.55	219.77	LAZ-UTRA	199.5 - 214.5
ZBG011D	280.71	7/18/23	N	60.48	220.23	LAZ-UTRA	202.8 - 217.8
ZBG012D	261.97	7/18/23	N	44.38	217.59	LAZ-UTRA	178.7 - 193.7
ZBG013D	262.48	7/18/23	N	45.01	217.47	LAZ-UTRA	179.7 - 194.7
ZBG014D	267.58	7/18/23	N	49.70	217.88	LAZ-UTRA	175.05 - 190.05
ZBG015D	297.97	7/18/23	N	63.50	234.47	UAZ-UTRA	214.31 - 234.31
ZBG016C	255.53	7/18/23	N	44.30	211.23	LAZ-UTRA	197.69 - 207.69
ZBG016D	256.10	7/17/23	Y	DRY	DRY	UAZ-UTRA	226.25 - 236.25
ZBG017D	277.79	7/18/23	N	59.10	218.69	LAZ-UTRA	213 - 223
ZBG018D	273.62	7/18/23	N	54.10	219.52	LAZ-UTRA	205.12 - 215.12
ZBG019D	285.47	7/18/23	N	64.71	220.76	LAZ-UTRA	208.4 - 218.4
ZBG020D	271.85	7/18/23	N	44.31	227.54	UAZ-UTRA	216 - 226

Table 5 Notes:

ft-TOC = feet – Top of Casing (Reference Elevation)

ft-amsl = feet above mean sea level

N = No

ND = No Data

Y = Yes

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